



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

Hit Summary Sheet
SW-846

SDG No.:	Q3662	Order ID:	Q3662
Client:	HDR, Inc.	Project ID:	PVWC Linear Construction

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B1-0.0-1.0-20251117								
Q3662-05	B1-0.0-1.0-20251117	TCLP	Barium	2250		72.8	500	ug/L
Q3662-05	B1-0.0-1.0-20251117	TCLP	Cadmium	8.65	J	2.50	30.0	ug/L
Q3662-05	B1-0.0-1.0-20251117	TCLP	Chromium	118		10.6	50.0	ug/L
Q3662-05	B1-0.0-1.0-20251117	TCLP	Lead	347		11.5	60.0	ug/L



SAMPLE DATA

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: B1-0.0-1.0-20251117
Lab Sample ID: Q3662-05
Level (low/med): low

Date Collected: 11/17/25
Date Received: 11/18/25
SDG No.: Q3662
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	11/19/25 12:30	11/19/25 17:27	6010D	M3010A
7440-39-3	Barium	2250	N	1	72.8	500	ug/L	11/19/25 12:30	11/19/25 17:27	6010D	M3010A
7440-43-9	Cadmium	8.65	J	1	2.50	30.0	ug/L	11/19/25 12:30	11/19/25 17:27	6010D	M3010A
7440-47-3	Chromium	118		1	10.6	50.0	ug/L	11/19/25 12:30	11/19/25 17:27	6010D	M3010A
7439-92-1	Lead	347		1	11.5	60.0	ug/L	11/19/25 12:30	11/19/25 17:27	6010D	M3010A
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	11/19/25 12:30	11/19/25 15:04	7470A	M7470A
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	11/19/25 12:30	11/19/25 17:27	6010D	M3010A
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	11/19/25 12:30	11/19/25 17:27	6010D	M3010A

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,
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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

HDR, Inc.

SDG No.:

Q3662

Contract:

HDRI08

Lab Code:

ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB122	Mercury	0.076	+/-0.2	U	0.20	CV	11/19/2025	14:25	LB137970

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3662

Contract: HDRI08

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB15	Mercury	0.076	+/-0.2	U	0.20	CV	11/19/2025	14:30	LB137970
CCB16	Mercury	0.076	+/-0.2	U	0.20	CV	11/19/2025	14:57	LB137970
CCB17	Mercury	0.076	+/-0.2	U	0.20	CV	11/20/2025	07:45	LB137970
CCB18	Mercury	0.076	+/-0.2	U	0.20	CV	11/20/2025	08:04	LB137970

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3662

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	11/19/2025	12:53	LB137974
	Barium	14.6	+/-50	U	100	P	11/19/2025	12:53	LB137974
	Cadmium	0.50	+/-3	U	6.00	P	11/19/2025	12:53	LB137974
	Chromium	2.12	+/-5	U	10.0	P	11/19/2025	12:53	LB137974
	Lead	2.30	+/-6	U	12.0	P	11/19/2025	12:53	LB137974
	Selenium	9.64	+/-10	U	20.0	P	11/19/2025	12:53	LB137974
	Silver	1.62	+/-5	U	10.0	P	11/19/2025	12:53	LB137974

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3662
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	11/19/2025	13:23	LB137974
	Barium	14.6	+/-50	U	100	P	11/19/2025	13:23	LB137974
	Cadmium	0.50	+/-3	U	6.00	P	11/19/2025	13:23	LB137974
	Chromium	2.12	+/-5	U	10.0	P	11/19/2025	13:23	LB137974
	Lead	2.30	+/-6	U	12.0	P	11/19/2025	13:23	LB137974
	Selenium	9.64	+/-10	U	20.0	P	11/19/2025	13:23	LB137974
	Silver	1.62	+/-5	U	10.0	P	11/19/2025	13:23	LB137974
CCB02	Arsenic	5.12	+/-10	U	20.0	P	11/19/2025	15:00	LB137974
	Barium	14.6	+/-50	U	100	P	11/19/2025	15:00	LB137974
	Cadmium	0.50	+/-3	U	6.00	P	11/19/2025	15:00	LB137974
	Chromium	2.12	+/-5	U	10.0	P	11/19/2025	15:00	LB137974
	Lead	2.30	+/-6	U	12.0	P	11/19/2025	15:00	LB137974
	Selenium	9.64	+/-10	U	20.0	P	11/19/2025	15:00	LB137974
	Silver	1.62	+/-5	U	10.0	P	11/19/2025	15:00	LB137974
CCB03	Arsenic	5.12	+/-10	U	20.0	P	11/19/2025	16:18	LB137974
	Barium	14.6	+/-50	U	100	P	11/19/2025	16:18	LB137974
	Cadmium	0.50	+/-3	U	6.00	P	11/19/2025	16:18	LB137974
	Chromium	2.12	+/-5	U	10.0	P	11/19/2025	16:18	LB137974
	Lead	2.30	+/-6	U	12.0	P	11/19/2025	16:18	LB137974
	Selenium	9.64	+/-10	U	20.0	P	11/19/2025	16:18	LB137974
	Silver	1.62	+/-5	U	10.0	P	11/19/2025	16:18	LB137974
CCB04	Arsenic	5.12	+/-10	U	20.0	P	11/19/2025	17:09	LB137974
	Barium	14.6	+/-50	U	100	P	11/19/2025	17:09	LB137974
	Cadmium	0.50	+/-3	U	6.00	P	11/19/2025	17:09	LB137974
	Chromium	2.12	+/-5	U	10.0	P	11/19/2025	17:09	LB137974
	Lead	2.30	+/-6	U	12.0	P	11/19/2025	17:09	LB137974
	Selenium	9.64	+/-10	U	20.0	P	11/19/2025	17:09	LB137974
	Silver	1.62	+/-5	U	10.0	P	11/19/2025	17:09	LB137974
CCB05	Arsenic	5.12	+/-10	U	20.0	P	11/19/2025	18:11	LB137974
	Barium	14.6	+/-50	U	100	P	11/19/2025	18:11	LB137974
	Cadmium	0.50	+/-3	U	6.00	P	11/19/2025	18:11	LB137974
	Chromium	2.12	+/-5	U	10.0	P	11/19/2025	18:11	LB137974
	Lead	2.30	+/-6	U	12.0	P	11/19/2025	18:11	LB137974
	Selenium	9.64	+/-10	U	20.0	P	11/19/2025	18:11	LB137974
	Silver	1.62	+/-5	U	10.0	P	11/19/2025	18:11	LB137974
CCB06	Arsenic	5.12	+/-10	U	20.0	P	11/19/2025	18:42	LB137974
	Barium	14.6	+/-50	U	100	P	11/19/2025	18:42	LB137974
	Cadmium	0.50	+/-3	U	6.00	P	11/19/2025	18:42	LB137974
	Chromium	2.12	+/-5	U	10.0	P	11/19/2025	18:42	LB137974

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3662
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	11/19/2025	18:42	LB137974
	Selenium	9.64	+/-10	U	20.0	P	11/19/2025	18:42	LB137974
	Silver	1.62	+/-5	U	10.0	P	11/19/2025	18:42	LB137974

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3662

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170600TB		WATER		Batch Number:	PB170634		Prep Date:	11/19/2025	
	Mercury	0.76	<2	U	2.00	CV	11/20/2025	07:47	LB137970
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170634BL		WATER		Batch Number:	PB170634		Prep Date:	11/19/2025	
	Mercury	0.076	<0.2	U	0.20	CV	11/19/2025	14:39	LB137970

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3662

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170600TB		WATER		Batch Number:	PB170626		Prep Date:	11/19/2025	
	Arsenic	25.6	<50	U	100	P	11/19/2025	17:49	LB137974
	Barium	72.8	<250	U	500	P	11/19/2025	17:49	LB137974
	Cadmium	2.50	<15	U	30.0	P	11/19/2025	17:49	LB137974
	Chromium	24.3	<25	J	50.0	P	11/19/2025	17:49	LB137974
	Lead	11.5	<30	U	60.0	P	11/19/2025	17:49	LB137974
	Selenium	48.2	<50	U	100	P	11/19/2025	17:49	LB137974
	Silver	8.10	<25	U	50.0	P	11/19/2025	17:49	LB137974
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170626BL		WATER		Batch Number:	PB170626		Prep Date:	11/19/2025	
	Arsenic	25.6	<50	U	100	P	11/19/2025	13:36	LB137974
	Barium	72.8	<250	U	500	P	11/19/2025	13:36	LB137974
	Cadmium	2.50	<15	U	30.0	P	11/19/2025	13:36	LB137974
	Chromium	10.6	<25	U	50.0	P	11/19/2025	13:36	LB137974
	Lead	11.5	<30	U	60.0	P	11/19/2025	13:36	LB137974
	Selenium	48.2	<50	U	100	P	11/19/2025	13:36	LB137974
	Silver	8.10	<25	U	50.0	P	11/19/2025	13:36	LB137974



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3662

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
ICV122	Mercury	4.16	4.0	104	90 - 110	CV	11/19/2025	14:23	LB137970

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3662

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
CCV15	Mercury	4.68	5.0	94	90 - 110	CV	11/19/2025	14:28	LB137970
CCV16	Mercury	4.65	5.0	93	90 - 110	CV	11/19/2025	14:55	LB137970
CCV17	Mercury	4.80	5.0	96	90 - 110	CV	11/20/2025	07:42	LB137970
CCV18	Mercury	5.19	5.0	104	90 - 110	CV	11/20/2025	08:02	LB137970

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

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

SDG No.: Q3662
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	3860	4000	96	90 - 110	P	11/19/2025	12:45	LB137974
	Barium	8100	8000	101	90 - 110	P	11/19/2025	12:45	LB137974
	Cadmium	1920	2000	96	90 - 110	P	11/19/2025	12:45	LB137974
	Chromium	787	800	98	90 - 110	P	11/19/2025	12:45	LB137974
	Lead	3820	4000	96	90 - 110	P	11/19/2025	12:45	LB137974
	Selenium	3860	4000	96	90 - 110	P	11/19/2025	12:45	LB137974
	Silver	1030	1000	103	90 - 110	P	11/19/2025	12:45	LB137974

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

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

SDG No.: Q3662
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	22.2	20.0	111	80 - 120	P	11/19/2025	12:49	LB137974
	Barium	103	100	103	80 - 120	P	11/19/2025	12:49	LB137974
	Cadmium	5.94	6.0	99	80 - 120	P	11/19/2025	12:49	LB137974
	Chromium	10.2	10.0	102	80 - 120	P	11/19/2025	12:49	LB137974
	Lead	11.4	12.0	95	80 - 120	P	11/19/2025	12:49	LB137974
	Selenium	19.8	20.0	99	80 - 120	P	11/19/2025	12:49	LB137974
	Silver	11.0	10.0	110	80 - 120	P	11/19/2025	12:49	LB137974

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

Contract: HDRI08

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3662

Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4700	5000	94	90 - 110	P	11/19/2025	13:19	LB137974
	Barium	9560	10000	96	90 - 110	P	11/19/2025	13:19	LB137974
	Cadmium	2330	2500	93	90 - 110	P	11/19/2025	13:19	LB137974
	Chromium	965	1000	96	90 - 110	P	11/19/2025	13:19	LB137974
	Lead	4680	5000	94	90 - 110	P	11/19/2025	13:19	LB137974
	Selenium	4700	5000	94	90 - 110	P	11/19/2025	13:19	LB137974
	Silver	1200	1250	96	90 - 110	P	11/19/2025	13:19	LB137974
CCV02	Arsenic	5020	5000	100	90 - 110	P	11/19/2025	14:56	LB137974
	Barium	10200	10000	102	90 - 110	P	11/19/2025	14:56	LB137974
	Cadmium	2500	2500	100	90 - 110	P	11/19/2025	14:56	LB137974
	Chromium	1030	1000	103	90 - 110	P	11/19/2025	14:56	LB137974
	Lead	5000	5000	100	90 - 110	P	11/19/2025	14:56	LB137974
	Selenium	5000	5000	100	90 - 110	P	11/19/2025	14:56	LB137974
	Silver	1260	1250	101	90 - 110	P	11/19/2025	14:56	LB137974
CCV03	Arsenic	5120	5000	102	90 - 110	P	11/19/2025	16:14	LB137974
	Barium	9980	10000	100	90 - 110	P	11/19/2025	16:14	LB137974
	Cadmium	2500	2500	100	90 - 110	P	11/19/2025	16:14	LB137974
	Chromium	1020	1000	102	90 - 110	P	11/19/2025	16:14	LB137974
	Lead	5040	5000	101	90 - 110	P	11/19/2025	16:14	LB137974
	Selenium	5140	5000	103	90 - 110	P	11/19/2025	16:14	LB137974
	Silver	1280	1250	102	90 - 110	P	11/19/2025	16:14	LB137974
CCV04	Arsenic	5040	5000	101	90 - 110	P	11/19/2025	17:05	LB137974
	Barium	9560	10000	96	90 - 110	P	11/19/2025	17:05	LB137974
	Cadmium	2450	2500	98	90 - 110	P	11/19/2025	17:05	LB137974
	Chromium	1000	1000	100	90 - 110	P	11/19/2025	17:05	LB137974
	Lead	4960	5000	99	90 - 110	P	11/19/2025	17:05	LB137974
	Selenium	5020	5000	100	90 - 110	P	11/19/2025	17:05	LB137974
	Silver	1250	1250	100	90 - 110	P	11/19/2025	17:05	LB137974
CCV05	Arsenic	5200	5000	104	90 - 110	P	11/19/2025	18:07	LB137974
	Barium	10000	10000	100	90 - 110	P	11/19/2025	18:07	LB137974
	Cadmium	2560	2500	102	90 - 110	P	11/19/2025	18:07	LB137974
	Chromium	1070	1000	107	90 - 110	P	11/19/2025	18:07	LB137974
	Lead	5150	5000	103	90 - 110	P	11/19/2025	18:07	LB137974
	Selenium	5170	5000	104	90 - 110	P	11/19/2025	18:07	LB137974

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3662

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	1340	1250	107	90 - 110	P	11/19/2025	18:07	LB137974
CCV06	Arsenic	4980	5000	100	90 - 110	P	11/19/2025	18:35	LB137974
	Barium	9380	10000	94	90 - 110	P	11/19/2025	18:35	LB137974
	Cadmium	2420	2500	97	90 - 110	P	11/19/2025	18:35	LB137974
	Chromium	964	1000	96	90 - 110	P	11/19/2025	18:35	LB137974
	Lead	4900	5000	98	90 - 110	P	11/19/2025	18:35	LB137974
	Selenium	4970	5000	99	90 - 110	P	11/19/2025	18:35	LB137974
	Silver	1210	1250	97	90 - 110	P	11/19/2025	18:35	LB137974



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: HDR, Inc.

SDG No.: Q3662

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	23.9	20.0	120	65 - 135	P	11/19/2025	12:57	LB137974
	Barium	99.7	100	100	65 - 135	P	11/19/2025	12:57	LB137974
	Cadmium	5.89	6.0	98	65 - 135	P	11/19/2025	12:57	LB137974
	Chromium	9.95	10.0	100	65 - 135	P	11/19/2025	12:57	LB137974
	Lead	10.1	12.0	84	65 - 135	P	11/19/2025	12:57	LB137974
	Selenium	18.5	20.0	92	65 - 135	P	11/19/2025	12:57	LB137974
	Silver	10.7	10.0	107	65 - 135	P	11/19/2025	12:57	LB137974
CRA	Mercury	0.17	0.2	84	70 - 130	CV	11/19/2025	14:32	LB137970

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>HDR, Inc.</u>	SDG No.: <u>Q3662</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	8.44			-20	20	11/19/2025	13:02	LB137974
	Barium	3.47	6.0	58	-94	106	11/19/2025	13:02	LB137974
	Cadmium	6.34	1.0	634	-5	7	11/19/2025	13:02	LB137974
	Chromium	51.9	52.0	100	42	62	11/19/2025	13:02	LB137974
	Lead	7.25			-12	12	11/19/2025	13:02	LB137974
	Selenium	1.34			-20	20	11/19/2025	13:02	LB137974
	Silver	-6.41			-10	10	11/19/2025	13:02	LB137974
ICSAB01	Arsenic	112	104	108	88.4	120	11/19/2025	13:06	LB137974
	Barium	494	537	92	437	637	11/19/2025	13:06	LB137974
	Cadmium	992	972	102	826	1120	11/19/2025	13:06	LB137974
	Chromium	551	542	102	460	624	11/19/2025	13:06	LB137974
	Lead	57.4	49.0	117	37	61	11/19/2025	13:06	LB137974
	Selenium	54.5	46.0	118	26	66	11/19/2025	13:06	LB137974
	Silver	186	201	92	170	232	11/19/2025	13:06	LB137974



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>HDR, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3662</u>
contract: <u>HDRI08</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3652-04</u>	client id: <u>TP-1MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3652-04MS</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	3470		100	U	4000	87		P
Barium	ug/L	75 - 125	2140		1480		1000	66	N	P
Cadmium	ug/L	75 - 125	832		30.0	U	1000	83		P
Chromium	ug/L	75 - 125	1780		53.7		2000	86		P
Lead	ug/L	75 - 125	4100		67.1		5000	81		P
Mercury	ug/L	75 - 125	36.5		2.00	U	40.0	91		CV
Selenium	ug/L	75 - 125	8580		100	U	10000	86		P
Silver	ug/L	75 - 125	320		50.0	U	380	84		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>HDR, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3662</u>
contract: <u>HDRI08</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3652-04</u>	client id: <u>TP-1MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3652-04MSD</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	3780		100	U	4000	94		P
Barium	ug/L	75 - 125	2170		1480		1000	69	N	P
Cadmium	ug/L	75 - 125	908		30.0	U	1000	91		P
Chromium	ug/L	75 - 125	1900		53.7		2000	92		P
Lead	ug/L	75 - 125	4480		67.1		5000	88		P
Mercury	ug/L	75 - 125	36.6		2.00	U	40.0	92		CV
Selenium	ug/L	75 - 125	9420		100	U	10000	94		P
Silver	ug/L	75 - 125	349		50.0	U	380	92		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: HDR, Inc.

SDG No.: Q3662

Contract: HDRI08

Lab Code: ACE

Matrix: Water

Level: LOW

Client ID: TP-1A

Sample ID: Q3652-04

Spiked ID: Q3652-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	2370		1480		1000	89		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>HDR, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3662</u>
Contract:	<u>HDRI08</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3652-04</u>	Client ID:	<u>TP-1DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3652-04DUP	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	1480		1480		0		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	53.7		53.1		1		P
Lead	ug/L	20	67.1		75.0		11		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

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>HDR, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3662</u>
Contract:	<u>HDRI08</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3652-04MS</u>	Client ID:	<u>TP-1MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3652-04MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3470		3780		9		P
Barium	ug/L	20	2140		2170		1		P
Cadmium	ug/L	20	832		908		9		P
Chromium	ug/L	20	1780		1900		7		P
Lead	ug/L	20	4100		4480		9		P
Mercury	ug/L	20	36.5		36.6		0		CV
Selenium	ug/L	20	8580		9420		9		P
Silver	ug/L	20	320		349		9		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>HDR, Inc.</u>	SDG No.:	<u>Q3662</u>
Contract:	<u>HDRI08</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170626BS							
Arsenic	ug/L	4000	3800		95	80 - 120	P
Barium	ug/L	1000	969		97	80 - 120	P
Cadmium	ug/L	1000	940		94	80 - 120	P
Chromium	ug/L	2000	1980		99	80 - 120	P
Lead	ug/L	5000	4630		93	80 - 120	P
Selenium	ug/L	10000	9540		95	80 - 120	P
Silver	ug/L	380	376		99	80 - 120	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: HDR, Inc.

SDG No.: Q3662

Contract: HDRI08

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170634BS Mercury	ug/L	4.0	3.74		94	80 - 120	CV

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

TP-1L

Lab Name: Alliance **Contract:** HDRI08
Lab Code: ACE **Lb No.:** lb137974 **Lab Sample ID :** Q3652-04L **SDG No.:** Q3662
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	1480		1350	J	9			P
Cadmium	30.0	U	150	U				P
Chromium	53.7		59.1	J	10			P
Lead	67.1		300	U	100.0			P
Mercury	2.00	U	10.0	U				CV
Selenium	100	U	500	U				P
Silver	50.0	U	250	U				P

metals
- 14 -
ANALYSIS RUN LOG

Client: HDR, Inc.

Contract: HDRI08

Lab code: ACE

Sdg no.: Q3662

Instrument id number: _____

Method: _____

Run number: LB137970

Start date: 11/19/2025

End date: 11/20/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1402	HG
S0.2	S0.2	1	1404	HG
S2.5	S2.5	1	1407	HG
S5	S5	1	1409	HG
S7.5	S7.5	1	1411	HG
S10	S10	1	1417	HG
ICV122	ICV122	1	1423	HG
ICB122	ICB122	1	1425	HG
CCV15	CCV15	1	1428	HG
CCB15	CCB15	1	1430	HG
CRA	CRA	1	1432	HG
PB170634BL	PB170634BL	1	1439	HG
PB170634BS	PB170634BS	1	1441	HG
Q3652-04DUP	TP-1DUP	1	1446	HG
Q3652-04MS	TP-1MS	1	1448	HG
Q3652-04MSD	TP-1MSD	1	1450	HG
CCV16	CCV16	1	1455	HG
CCB16	CCB16	1	1457	HG
Q3662-05	B1-0.0-1.0-20251117	1	1504	HG
CCV17	CCV17	1	0742	HG
CCB17	CCB17	1	0745	HG
PB170600TB	PB170600TB	1	0747	HG
Q3652-04L	TP-1L	5	0749	HG
CCV18	CCV18	1	0802	HG
CCB18	CCB18	1	0804	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: HDR, Inc.

Contract: HDRI08

Lab code: ACE

Sdg no.: Q3662

Instrument id number: _____

Method: _____

Run number: LB137974

Start date: 11/19/2025

End date: 11/19/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1220	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1224	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1228	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1232	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1236	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1241	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1245	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1249	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1253	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1257	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1302	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1306	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1319	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1323	Ag,As,Ba,Cd,Cr,Pb,Se
PB170626BL	PB170626BL	1	1336	Ag,As,Ba,Cd,Cr,Pb,Se
PB170626BS	PB170626BS	1	1340	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1456	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1500	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1614	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1618	Ag,As,Ba,Cd,Cr,Pb,Se
Q3652-04DUP	TP-1DUP	1	1644	Ag,As,Ba,Cd,Cr,Pb,Se
Q3652-04L	TP-1L	5	1648	Ag,As,Ba,Cd,Cr,Pb,Se
Q3652-04MS	TP-1MS	1	1652	Ag,As,Ba,Cd,Cr,Pb,Se
Q3652-04MSD	TP-1MSD	1	1656	Ag,As,Ba,Cd,Cr,Pb,Se
Q3652-04A	TP-1A	1	1701	Ba
CCV04	CCV04	1	1705	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1709	Ag,As,Ba,Cd,Cr,Pb,Se
Q3662-05	B1-0.0-1.0-20251117	1	1727	Ag,As,Ba,Cd,Cr,Pb,Se
PB170600TB	PB170600TB	1	1749	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1807	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1811	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1835	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1842	Ag,As,Ba,Cd,Cr,Pb,Se



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc.

SDG No.: Q3662

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.: Q3662

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

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc.

SDG No.: Q3662

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

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc.

SDG No.: Q3662

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

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc.

SDG No.: Q3662

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:	Q3662	OrderDate:	11/18/2025 11:14:00 AM
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
Q3662-02	B3-0.0-1.0-20251117	SOIL			11/17/25			11/18/25
			Mercury	7471B		11/19/25	11/19/25	
			Metals ICP-TAL	6010D		11/19/25	11/19/25	
Q3662-04	B1-0.0-1.0-20251117	SOIL			11/17/25			11/18/25
			Mercury	7471B		11/19/25	11/19/25	
			Metals ICP-TAL	6010D		11/19/25	11/19/25	
Q3662-05	B1-0.0-1.0-20251117	TCLP			11/17/25			11/18/25
			TCLP ICP Metals	6010D		11/19/25	11/19/25	
			TCLP Mercury	7470A		11/19/25	11/19/25	



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: HDR, Inc.

SDG No.: Q3662

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: PB170626							
PB170600TB	PB170600TB	MB	WATER	11/19/2025	5.0	25.0	
PB170626BL	PB170626BL	MB	WATER	11/19/2025	5.0	25.0	
PB170626BS	PB170626BS	LCS	WATER	11/19/2025	5.0	25.0	
Q3652-04DUP	TP-1DUP	DUP	WATER	11/19/2025	5.0	25.0	
Q3652-04MS	TP-1MS	MS	WATER	11/19/2025	5.0	25.0	
Q3652-04MSD	TP-1MSD	MSD	WATER	11/19/2025	5.0	25.0	
Q3662-05	B1-0.0-1.0-20251117	SAM	WATER	11/19/2025	5.0	25.0	

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: HDR, Inc.

SDG No.: Q3662

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: PB170634							
PB170600TB	PB170600TB	MB	WATER	11/19/2025	3.0	30.0	
PB170634BL	PB170634BL	MB	WATER	11/19/2025	30.0	30.0	
PB170634BS	PB170634BS	LCS	WATER	11/19/2025	30.0	30.0	
Q3652-04DUP	TP-1DUP	DUP	WATER	11/19/2025	3.0	30.0	
Q3652-04MS	TP-1MS	MS	WATER	11/19/2025	3.0	30.0	
Q3652-04MSD	TP-1MSD	MSD	WATER	11/19/2025	3.0	30.0	
Q3662-05	B1-0.0-1.0-20251117	SAM	WATER	11/19/2025	3.0	30.0	

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137970

Review By	mohan	Review On	11/20/2025 12:53:46 PM
Supervise By	jaswal	Supervise On	11/21/2025 12:23:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP88014,MP88015,MP88016,MP88017,MP88018,MP88019
ICV Standard	MP88020
CCV Standard	MP88022
ICSA Standard	
CRI Standard	MP88024
LCS Standard	
Chk Standard	MP88021,MP88023,MP88025,MP88027

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/19/25 14:02		mohan	OK
2	S0.2	S0.2	CAL2	11/19/25 14:04		mohan	OK
3	S2.5	S2.5	CAL3	11/19/25 14:07		mohan	OK
4	S5	S5	CAL4	11/19/25 14:09		mohan	OK
5	S7.5	S7.5	CAL5	11/19/25 14:11		mohan	OK
6	S10	S10	CAL6	11/19/25 14:17		mohan	OK
7	ICV122	ICV122	ICV	11/19/25 14:23		mohan	OK
8	ICB122	ICB122	ICB	11/19/25 14:25		mohan	OK
9	CCV15	CCV15	CCV	11/19/25 14:28		mohan	OK
10	CCB15	CCB15	CCB	11/19/25 14:30		mohan	OK
11	CRA	CRA	CRDL	11/19/25 14:32		mohan	OK
12	HighStd	HighStd	HIGH STD	11/19/25 14:34		mohan	OK
13	ChkStd	ChkStd	SAM	11/19/25 14:37		mohan	OK
14	PB170634BL	PB170634BL	MB	11/19/25 14:39		mohan	OK
15	PB170634BS	PB170634BS	LCS	11/19/25 14:41		mohan	OK
16	Q3652-04	TP-1	SAM	11/19/25 14:43		mohan	OK
17	Q3652-04DUP	TP-1DUP	DUP	11/19/25 14:46		mohan	OK
18	Q3652-04MS	TP-1MS	MS	11/19/25 14:48		mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137970

Review By	mohan	Review On	11/20/2025 12:53:46 PM
Supervise By	jaswal	Supervise On	11/21/2025 12:23:46 PM
STD. NAME	STD REF.#		
ICAL Standard	MP88014,MP88015,MP88016,MP88017,MP88018,MP88019		
ICV Standard	MP88020		
CCV Standard	MP88022		
ICSA Standard			
CRI Standard	MP88024		
LCS Standard			
Chk Standard	MP88021,MP88023,MP88025,MP88027		

19	Q3652-04MSD	TP-1MSD	MSD	11/19/25 14:50		mohan	OK
20	Q3657-01	SEWAREN-CONCRE	SAM	11/19/25 14:53		mohan	OK
21	CCV16	CCV16	CCV	11/19/25 14:55		mohan	OK
22	CCB16	CCB16	CCB	11/19/25 14:57		mohan	OK
23	Q3659-01	TANK-1-COMP-1	SAM	11/19/25 14:59		mohan	OK
24	Q3659-02	TANK-1-COMP-2	SAM	11/19/25 15:02		mohan	OK
25	Q3662-05	B1-0.0-1.0-20251117	SAM	11/19/25 15:04		mohan	OK
26	PB170635BL	PB170635BL	MB	11/19/25 15:06		mohan	OK
27	PB170635BS	PB170635BS	LCS	11/19/25 15:08		mohan	OK
28	Q3666-02	BUR-25-0102	SAM	11/19/25 15:11		mohan	OK
29	Q3666-02DUP	BUR-25-0102DUP	DUP	11/19/25 15:13		mohan	OK
30	Q3666-02MS	BUR-25-0102MS	MS	11/19/25 15:15		mohan	OK
31	Q3666-02MSD	BUR-25-0102MSD	MSD	11/19/25 15:18		mohan	OK
32	CCV17	CCV17	CCV	11/20/25 07:42		mohan	OK
33	CCB17	CCB17	CCB	11/20/25 07:45		mohan	OK
34	PB170600TB	PB170600TB	MB	11/20/25 07:47		mohan	OK
35	Q3652-04L	TP-1L	SD	11/20/25 07:49		mohan	OK
36	Q3652-04A	TP-1A	PS	11/20/25 07:51		mohan	OK
37	Q3666-02A	BUR-25-0102A	PS	11/20/25 07:56		mohan	OK
38	Q3666-02L	BUR-25-0102L	SD	11/20/25 07:59		mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137970

Review By	mohan	Review On	11/20/2025 12:53:46 PM
Supervise By	jaswal	Supervise On	11/21/2025 12:23:46 PM
STD. NAME	STD REF.#		
ICAL Standard	MP88014,MP88015,MP88016,MP88017,MP88018,MP88019		
ICV Standard	MP88020		
CCV Standard	MP88022		
ICSA Standard			
CRI Standard	MP88024		
LCS Standard			
Chk Standard	MP88021,MP88023,MP88025,MP88027		

39	CCV18	CCV18	CCV	11/20/25 08:02		mohan	OK
40	CCB18	CCB18	CCB	11/20/25 08:04		mohan	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137974

Review By	jaswal	Review On	11/20/2025 12:52:04 PM
Supervise By	mohan	Supervise On	11/20/2025 1:09:45 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/19/25 12:20		Jaswal	OK
2	S1	S1	CAL2	11/19/25 12:24		Jaswal	OK
3	S2	S2	CAL3	11/19/25 12:28		Jaswal	OK
4	S3	S3	CAL4	11/19/25 12:32		Jaswal	OK
5	S4	S4	CAL5	11/19/25 12:36		Jaswal	OK
6	S5	S5	CAL6	11/19/25 12:41		Jaswal	OK
7	ICV01	ICV01	ICV	11/19/25 12:45		Jaswal	OK
8	LLICV01	LLICV01	LLICV	11/19/25 12:49		Jaswal	OK
9	ICB01	ICB01	ICB	11/19/25 12:53		Jaswal	OK
10	CRI01	CRI01	CRDL	11/19/25 12:57		Jaswal	OK
11	ICSA01	ICSA01	ICSA	11/19/25 13:02		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	11/19/25 13:06		Jaswal	OK
13	ICSADL	ICSADL	ICSA	11/19/25 13:10		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	11/19/25 13:14		Jaswal	OK
15	CCV01	CCV01	CCV	11/19/25 13:19		Jaswal	OK
16	CCB01	CCB01	CCB	11/19/25 13:23		Jaswal	OK
17	PB170617BL	PB170617BL	MB	11/19/25 13:27		Jaswal	OK
18	PB170617BS	PB170617BS	LCS	11/19/25 13:32		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137974

Review By	jaswal	Review On	11/20/2025 12:52:04 PM
Supervise By	mohan	Supervise On	11/20/2025 1:09:45 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

19	PB170626BL	PB170626BL	MB	11/19/25 13:36		Jaswal	OK
20	PB170626BS	PB170626BS	LCS	11/19/25 13:40		Jaswal	OK
21	LR-1	LR-1	HIGH STD	11/19/25 14:09		Jaswal	OK
22	LR-2	LR-2	HIGH STD	11/19/25 14:19		Jaswal	OK
23	LR-3	LR-3	HIGH STD	11/19/25 14:30		Jaswal	OK
24	Q3662-02	B3-0.0-1.0-20251117	SAM	11/19/25 14:34		Jaswal	OK
25	Q3662-04	B1-0.0-1.0-20251117	SAM	11/19/25 14:38		Jaswal	OK
26	Q3664-01	ARS20-0001	SAM	11/19/25 14:42		Jaswal	OK
27	CCV02	CCV02	CCV	11/19/25 14:56		Jaswal	OK
28	CCB02	CCB02	CCB	11/19/25 15:00		Jaswal	OK
29	Q3664-03	ARS20-0013	SAM	11/19/25 15:05		Jaswal	OK
30	Q3664-05	291399	SAM	11/19/25 15:09		Jaswal	OK
31	Q3667-01	RIGHT-SIDE-WALL	SAM	11/19/25 15:13		Jaswal	OK
32	Q3667-05	LEFT-SIDE-FLOOR	SAM	11/19/25 15:22		Jaswal	OK
33	Q3667-03	LEFT-SIDE-WALL	SAM	11/19/25 15:44		Jaswal	OK
34	Q3667-07	ELEVATED-DIVIDE	SAM	11/19/25 15:48		Jaswal	OK
35	Q3668-01	2015	SAM	11/19/25 15:53		Jaswal	OK
36	Q3669-01	EO-01-11182025	SAM	11/19/25 15:57		Jaswal	OK
37	Q3669-01DUP	EO-01-11182025DUP	DUP	11/19/25 16:01		Jaswal	OK
38	Q3669-01L	EO-01-11182025L	SD	11/19/25 16:05		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137974

Review By	jaswal	Review On	11/20/2025 12:52:04 PM
Supervise By	mohan	Supervise On	11/20/2025 1:09:45 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

39	CCV03	CCV03	CCV	11/19/25 16:14		Jaswal	OK
40	CCB03	CCB03	CCB	11/19/25 16:18		Jaswal	OK
41	Q3669-01MS	EO-01-11182025MS	MS	11/19/25 16:22		Jaswal	OK
42	Q3669-01MSD	EO-01-11182025MSD	MSD	11/19/25 16:26		Jaswal	OK
43	Q3583-07	CHRT27080	SAM	11/19/25 16:35		Jaswal	OK
44	Q3652-04	TP-1	SAM	11/19/25 16:39		Jaswal	OK
45	Q3652-04DUP	TP-1DUP	DUP	11/19/25 16:44		Jaswal	OK
46	Q3652-04L	TP-1L	SD	11/19/25 16:48		Jaswal	OK
47	Q3652-04MS	TP-1MS	MS	11/19/25 16:52		Jaswal	OK
48	Q3652-04MSD	TP-1MSD	MSD	11/19/25 16:56		Jaswal	OK
49	Q3652-04A	TP-1A	PS	11/19/25 17:01	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
50	CCV04	CCV04	CCV	11/19/25 17:05		Jaswal	OK
51	CCB04	CCB04	CCB	11/19/25 17:09		Jaswal	OK
52	Q3657-01	SEWAREN-CONCRE	SAM	11/19/25 17:13		Jaswal	OK
53	Q3659-01	TANK-1-COMP-1	SAM	11/19/25 17:18		Jaswal	OK
54	Q3659-02	TANK-1-COMP-2	SAM	11/19/25 17:22		Jaswal	OK
55	Q3662-05	B1-0.0-1.0-20251117	SAM	11/19/25 17:27		Jaswal	OK
56	Q3667-02	RIGHT-SIDE-WALL	SAM	11/19/25 17:31		Jaswal	OK
57	Q3667-04	LEFT-SIDE-WALL	SAM	11/19/25 17:35		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137974

Review By	jaswal	Review On	11/20/2025 12:52:04 PM
Supervise By	mohan	Supervise On	11/20/2025 1:09:45 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

58	Q3667-06	LEFT-SIDE-FLOOR	SAM	11/19/25 17:40		Jaswal	OK
59	Q3667-08	ELEVATED-DIVIDE	SAM	11/19/25 17:45		Jaswal	OK
60	PB170600TB	PB170600TB	MB	11/19/25 17:49		Jaswal	OK
61	Q3667-03DL	LEFT-SIDE-WALLDL	SAM	11/19/25 17:54	NOT USE	Jaswal	Not Ok
62	CCV05	CCV05	CCV	11/19/25 18:07		Jaswal	OK
63	CCB05	CCB05	CCB	11/19/25 18:11		Jaswal	OK
64	Q3667-07DL	ELEVATED-DIVIDED	SAM	11/19/25 18:15	NOT USE	Jaswal	Not Ok
65	Q3669-01A	EO-01-11182025A	PS	11/19/25 18:20	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
66	CCV06	CCV06	CCV	11/19/25 18:35		Jaswal	OK
67	CCB06	CCB06	CCB	11/19/25 18:42		Jaswal	OK

SOP ID : M3010A-Digestion-17

SDG No : N/A **Start Digest Date:** 11/19/2025 **Time :** 12:30 **Temp :** 96 °C

Matrix : WATER **End Digest Date:** 11/19/2025 **Time :** 15:32 **Temp :** 96 °C

Pipette ID: ICP A **Digestion tube ID:** M5595 **13:32**

Balance ID : N/A **Block thermometer ID:** MET-DIG. #1

Filter paper ID : N/A **Dig Technician Signature:** SKG

pH Strip ID : M6069 **Supervisor Signature:** [Signature]

Hood ID : #3 **Temp :** 1. 96°C 2. N/A

Block ID: 1. HOT BLOCK #1 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	M6187
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 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/25 15:35	SKG met dig	SKG metal lab
13:35	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
PB170600TB	PB170600TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	1
PB170626BL	PBW626	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	2
PB170626BS	LCS626	<2	5	25	Colorless	Colorless	Clear	Clear	M6209,M6201	3
Q3583-07	CHRT27080	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	4
Q3652-04MS	TP-1MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6209,M6201	7
Q3652-04MSD	TP-1MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6209,M6201	8
Q3652-04DUP	TP-1DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	6
Q3652-04	TP-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	5
Q3657-01	SEWAREN-CONCRETE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	9
Q3659-01	TANK-1-COMP-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	10
Q3659-02	TANK-1-COMP-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	11
Q3662-05	B3-0.0-1.0-20251117	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	12
Q3667-02	RIGHT-SIDE-WALL	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	13
Q3667-04	LEFT-SIDE-WALL	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	14
Q3667-06	LEFT-SIDE-FLOOR	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	15
Q3667-08	ELEVATED-DIVIDE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16

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. HOT BLOCK #3 2. N/A

Start Digest Date: 11/19/2025 Time : 12:30 Temp : 96 °C

End Digest Date: 11/19/2025 Time : 14:32 Temp : 96 °C

Digestion tube ID: M5595 13:32

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: *m h*

Supervisor Signature: *m h*

Temp : 1. 96°C 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP88020
CCV	30mL	MP88022
CRA	30mL	MP88024
Blank Spike	0.48mL	MP88013
Matrix Spike	0.48mL	MP88013

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	MP88014
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP88015
2.5 ppb	S2.5	30mL	MP88016
5.0 ppb	S5.0	30mL	MP88017
7.5 ppb	S7.5	30mL	MP88018
10.0 ppb	S10.0	30mL	MP88019
ICV	ICV	30mL	MP88020
ICB	ICB	30mL	MP88021
CCV	CCV	30mL	MP88022
CCB	CCB	30mL	MP88023
CRI	CRI	30mL	MP88024
CHK STD	CHK STD	30mL	MP88025

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/25 14:32	<i>snb met 14</i>	<i>m h met 14b</i>
13:45	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB170600TB	PB170600TB	3	30	<2	N/A	7
PB170634BL	PBW634	30	30	<2	N/A	8
PB170634BS	LCS634	30	30	<2	MP88013	9
Q3652-04MS	TP-1MS	3	30	<2	MP88013	12
Q3652-04MSD	TP-1MSD	3	30	<2	MP88013	13
Q3652-04DUP	TP-1DUP	3	30	<2	N/A	11
Q3652-04	TP-1	3	30	<2	N/A	10
Q3657-01	SEWAREN-CONCRETE	3	30	<2	N/A	14
Q3659-01	TANK-1-COMP-1	3	30	<2	N/A	15
Q3659-02	TANK-1-COMP-2	3	30	<2	N/A	16
Q3662-05	B1-0.0-1.0-20251117	3	30	<2	N/A	17

SOP ID : M1311-TCLP-16

SDG No : N/A

Welgh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1

TCLP Filter ID : 40819719

Start Prep Date : 11/18/2025 Time : 16:00

End Prep Date : 11/19/2025 Time : 10:25

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 18

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : 

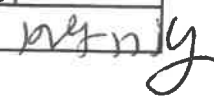
Supervisor By : 

Standarded 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	WP114526
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 fiftation and before preservation. TUMBLER T-1 checked,30 rpm. q3652-04 is used FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/25 11:30	 120 Room	SKS. RJ/EXT
	Preparation Group	Analysis Group 

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
PB170600TB	LEB600	11	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-1
Q3583-07	CHRT27080	01	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q3652-04	TP-1	02	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q3657-01	SEWAREN-CONCRETE	03	100.04	2000	N/A	N/A	N/A	10.5	1.0	T-1
Q3659-01	TANK-1-COMP-1	04	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q3659-02	TANK-1-COMP-2	05	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q3662-05	B3-0.0-1.0-20251117	06	100.04	2000	N/A	N/A	N/A	3.5	1.0	T-1
Q3667-02	RIGHT-SIDE-WALL	07	100.03	2000	N/A	N/A	N/A	10.0	1.5	T-1
Q3667-04	LEFT-SIDE-WALL	08	100.02	2000	N/A	N/A	N/A	11.0	1.0	T-1
Q3667-06	LEFT-SIDE-FLOOR	09	100.01	2000	N/A	N/A	N/A	11.0	1.5	T-1
Q3667-08	ELEVATED-DIVIDE	10	100.02	2000	N/A	N/A	N/A	10.5	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB170600TB	LEB600	N/A	N/A	N/A	N/A	N/A	N/A
Q3583-07	CHRT27080	N/A	N/A	N/A	N/A	100	N/A
Q3652-04	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q3657-01	SEWAREN-CONCRETE	N/A	N/A	N/A	N/A	100	N/A
Q3659-01	TANK-1-COMP-1	N/A	N/A	N/A	N/A	100	N/A
Q3659-02	TANK-1-COMP-2	N/A	N/A	N/A	N/A	100	N/A
Q3662-05	B3-0.0-1.0-20251117	N/A	N/A	N/A	N/A	100	N/A
Q3667-02	RIGHT-SIDE-WALL	N/A	N/A	N/A	N/A	100	N/A
Q3667-04	LEFT-SIDE-WALL	N/A	N/A	N/A	N/A	100	N/A
Q3667-06	LEFT-SIDE-FLOOR	N/A	N/A	N/A	N/A	100	N/A
Q3667-08	ELEVATED-DIVIDE	N/A	N/A	N/A	N/A	100	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
PB170600TB	LEB600	N/A	N/A	N/A	N/A	#1	4.93
Q3583-07	CHRT27080	5.02	96.5	7.0	2.5	#1	4.93
Q3652-04	TP-1	5.01	96.5	6.6	2.0	#1	4.93
Q3657-01	SEWAREN-CONCRETE	5.03	96.5	11.0	4.0	#1	4.93
Q3659-01	TANK-1-COMP-1	5.04	96.5	7.0	2.5	#1	4.93
Q3659-02	TANK-1-COMP-2	5.05	96.5	6.6	2.0	#1	4.93
Q3662-05	B3-0.0-1.0-20251117	5.02	96.5	6.0	2.0	#1	4.93
Q3667-02	RIGHT-SIDE-WALL	5.03	96.5	10.5	4.0	#1	4.93
Q3667-04	LEFT-SIDE-WALL	5.02	96.5	11.5	4.5	#1	4.93
Q3667-06	LEFT-SIDE-FLOOR	5.03	96.5	11.5	4.5	#1	4.93
Q3667-08	ELEVATED-DIVIDE	5.02	96.5	11.0	4.5	#1	4.93