



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

Hit Summary Sheet
SW-846

SDG No.: P4718

Order ID: P4718

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-307-SB02								
P4718-03	WB-307-SB02	TCLP	Barium	1850		62.8	500	ug/L
P4718-03	WB-307-SB02	TCLP	Chromium	16.1	J	6.60	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-03	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7440-39-3	Barium	1850	N	1	62.8	500	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7440-47-3	Chromium	16.1	J	1	6.60	50.0	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	11/07/24 11:50	11/08/24 10:42	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP-FULL			

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



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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: P4718

Contract: PORT06

Lab Code: CHEM

Case No.: P4718

SAS No.: P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB75	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	10:21	LB133352

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: P4718

Contract: PORT06

Lab Code: CHEM

Case No.: P4718

SAS No.: P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB51	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	10:25	LB133352
CCB52	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	10:56	LB133352
CCB53	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	11:23	LB133352
CCB54	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	11:34	LB133352

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>Portal Partners Tri-Venture</u>		SDG No.: <u>P4718</u>							
Contract: <u>PORT06</u>		Lab Code: <u>CHEM</u>		Case No.: <u>P4718</u>		SAS No.: <u>P4718</u>			
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	14:16	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:16	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:16	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P4718							
Contract: PORT06	Lab Code: CHEM	Case No.: P4718	SAS No.: P4718						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	14:50	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:50	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:50	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	15:33	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	15:33	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	15:33	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	15:33	LB133365
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	16:28	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	16:28	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	17:22	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	17:22	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:08	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:08	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:59	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	18:59	LB133365

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P4718							
Contract: PORT06	Lab Code: CHEM	Case No.: P4718	SAS No.: P4718						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:59	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	18:59	LB133365
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	19:51	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	19:51	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	20:57	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	20:57	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	21:55	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	21:55	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	23:35	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	23:35	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P4718							
Contract: PORT06		Lab Code: CHEM		Case No.: P4718		SAS No.: P4718			
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	20:14	LB133525
	Barium	100	+/-100	U	100	P	11/19/2024	20:14	LB133525
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	20:14	LB133525
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	20:14	LB133525
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	20:14	LB133525
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	20:14	LB133525
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	20:14	LB133525

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P4718							
Contract: PORT06	Lab Code: CHEM	Case No.: P4718	SAS No.: P4718						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	20:47	LB133525
	Barium	100	+/-100	U	100	P	11/19/2024	20:47	LB133525
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	20:47	LB133525
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	20:47	LB133525
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	20:47	LB133525
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	20:47	LB133525
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	20:47	LB133525
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	21:42	LB133525
	Barium	100	+/-100	U	100	P	11/19/2024	21:42	LB133525
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	21:42	LB133525
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	21:42	LB133525
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	21:42	LB133525
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	21:42	LB133525
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	21:42	LB133525

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: P4718

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164694TB		WATER		Batch Number:	PB164791		Prep Date:	11/07/2024	
	Mercury	2.00	<2.00	U	2.00	CV	11/08/2024	11:25	LB133352
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164791BL		WATER		Batch Number:	PB164791		Prep Date:	11/07/2024	
	Mercury	0.20	<0.20	U	0.20	CV	11/08/2024	10:38	LB133352

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: P4718

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164694TB		WATER		Batch Number:	PB164768		Prep Date:	11/07/2024	
	Arsenic	100	<100	U	100	P	11/08/2024	16:54	LB133365
	Barium	500	<500	U	500	P	11/08/2024	16:54	LB133365
	Cadmium	30.0	<30.0	U	30.0	P	11/08/2024	16:54	LB133365
	Chromium	50.0	<50.0	U	50.0	P	11/08/2024	16:54	LB133365
	Lead	60.0	<60.0	U	60.0	P	11/08/2024	16:54	LB133365
	Selenium	100	<100	U	100	P	11/08/2024	16:54	LB133365
	Silver	50.0	<50.0	U	50.0	P	11/08/2024	16:54	LB133365
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164768BL		WATER		Batch Number:	PB164768		Prep Date:	11/07/2024	
	Arsenic	100	<100	U	100	P	11/08/2024	16:59	LB133365
	Barium	500	<500	U	500	P	11/08/2024	16:59	LB133365
	Cadmium	30.0	<30.0	U	30.0	P	11/08/2024	16:59	LB133365
	Chromium	50.0	<50.0	U	50.0	P	11/08/2024	16:59	LB133365
	Lead	60.0	<60.0	U	60.0	P	11/08/2024	16:59	LB133365
	Selenium	100	<100	U	100	P	11/08/2024	16:59	LB133365
	Silver	50.0	<50.0	U	50.0	P	11/08/2024	16:59	LB133365



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
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
ICV75	Mercury	3.66	4.0	92	90 - 110	CV	11/08/2024	10:19	LB133352

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
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
CCV51	Mercury	5.08	5.0	102	90 - 110	CV	11/08/2024	10:23	LB133352
CCV52	Mercury	4.97	5.0	99	90 - 110	CV	11/08/2024	10:53	LB133352
CCV53	Mercury	4.67	5.0	93	90 - 110	CV	11/08/2024	11:21	LB133352
CCV54	Mercury	4.56	5.0	91	90 - 110	CV	11/08/2024	11:32	LB133352

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1000	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Barium	513	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Cadmium	497	510	97	90 - 110	P	11/08/2024	13:59	LB133365
	Chromium	514	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Lead	999	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Selenium	1000	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Silver	251	250	100	90 - 110	P	11/08/2024	13:59	LB133365

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
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	19.5	20.0	98	80 - 120	P	11/08/2024	14:11	LB133365
	Barium	95.3	100	95	80 - 120	P	11/08/2024	14:11	LB133365
	Cadmium	6.34	6.0	106	80 - 120	P	11/08/2024	14:11	LB133365
	Chromium	9.48	10.0	95	80 - 120	P	11/08/2024	14:11	LB133365
	Lead	11.8	12.0	99	80 - 120	P	11/08/2024	14:11	LB133365
	Selenium	20.6	20.0	103	80 - 120	P	11/08/2024	14:11	LB133365
	Silver	10.6	10.0	106	80 - 120	P	11/08/2024	14:11	LB133365

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4950	5000	99	90 - 110	P	11/08/2024	14:44	LB133365
	Barium	9530	10000	95	90 - 110	P	11/08/2024	14:44	LB133365
	Cadmium	2390	2500	96	90 - 110	P	11/08/2024	14:44	LB133365
	Chromium	1050	1000	105	90 - 110	P	11/08/2024	14:44	LB133365
	Lead	4870	5000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Selenium	5020	5000	100	90 - 110	P	11/08/2024	14:44	LB133365
	Silver	1230	1250	99	90 - 110	P	11/08/2024	14:44	LB133365
CCV02	Arsenic	4950	5000	99	90 - 110	P	11/08/2024	15:29	LB133365
	Barium	9460	10000	95	90 - 110	P	11/08/2024	15:29	LB133365
	Cadmium	2360	2500	94	90 - 110	P	11/08/2024	15:29	LB133365
	Chromium	918	1000	92	90 - 110	P	11/08/2024	15:29	LB133365
	Lead	4800	5000	96	90 - 110	P	11/08/2024	15:29	LB133365
	Selenium	5080	5000	102	90 - 110	P	11/08/2024	15:29	LB133365
	Silver	1230	1250	98	90 - 110	P	11/08/2024	15:29	LB133365
CCV03	Arsenic	4980	5000	100	90 - 110	P	11/08/2024	16:23	LB133365
	Barium	9610	10000	96	90 - 110	P	11/08/2024	16:23	LB133365
	Cadmium	2380	2500	95	90 - 110	P	11/08/2024	16:23	LB133365
	Chromium	930	1000	93	90 - 110	P	11/08/2024	16:23	LB133365
	Lead	4840	5000	97	90 - 110	P	11/08/2024	16:23	LB133365
	Selenium	5130	5000	103	90 - 110	P	11/08/2024	16:23	LB133365
	Silver	1250	1250	100	90 - 110	P	11/08/2024	16:23	LB133365
CCV04	Arsenic	5190	5000	104	90 - 110	P	11/08/2024	17:16	LB133365
	Barium	9360	10000	94	90 - 110	P	11/08/2024	17:16	LB133365
	Cadmium	2420	2500	97	90 - 110	P	11/08/2024	17:16	LB133365
	Chromium	927	1000	93	90 - 110	P	11/08/2024	17:16	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	17:16	LB133365
	Selenium	5360	5000	107	90 - 110	P	11/08/2024	17:16	LB133365
	Silver	1260	1250	101	90 - 110	P	11/08/2024	17:16	LB133365
CCV05	Arsenic	5110	5000	102	90 - 110	P	11/08/2024	18:04	LB133365
	Barium	9290	10000	93	90 - 110	P	11/08/2024	18:04	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	18:04	LB133365
	Chromium	906	1000	91	90 - 110	P	11/08/2024	18:04	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Selenium	5280	5000	106	90 - 110	P	11/08/2024	18:04	LB133365

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	1230	1250	99	90 - 110	P	11/08/2024	18:04	LB133365
CCV06	Arsenic	4970	5000	100	90 - 110	P	11/08/2024	18:55	LB133365
	Barium	9460	10000	95	90 - 110	P	11/08/2024	18:55	LB133365
	Cadmium	2360	2500	95	90 - 110	P	11/08/2024	18:55	LB133365
	Chromium	923	1000	92	90 - 110	P	11/08/2024	18:55	LB133365
	Lead	4830	5000	97	90 - 110	P	11/08/2024	18:55	LB133365
	Selenium	5100	5000	102	90 - 110	P	11/08/2024	18:55	LB133365
	Silver	1220	1250	98	90 - 110	P	11/08/2024	18:55	LB133365
CCV07	Arsenic	5060	5000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Barium	9520	10000	95	90 - 110	P	11/08/2024	19:47	LB133365
	Cadmium	2400	2500	96	90 - 110	P	11/08/2024	19:47	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	19:47	LB133365
	Lead	4910	5000	98	90 - 110	P	11/08/2024	19:47	LB133365
	Selenium	5210	5000	104	90 - 110	P	11/08/2024	19:47	LB133365
	Silver	1250	1250	100	90 - 110	P	11/08/2024	19:47	LB133365
CCV08	Arsenic	4620	5000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Barium	9200	10000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Cadmium	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Lead	4790	5000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Selenium	4670	5000	93	90 - 110	P	11/08/2024	20:48	LB133365
	Silver	1190	1250	95	90 - 110	P	11/08/2024	20:48	LB133365
CCV09	Arsenic	4610	5000	92	90 - 110	P	11/08/2024	21:50	LB133365
	Barium	9110	10000	91	90 - 110	P	11/08/2024	21:50	LB133365
	Cadmium	2310	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Chromium	902	1000	90	90 - 110	P	11/08/2024	21:50	LB133365
	Lead	4710	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Selenium	4690	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Silver	1190	1250	95	90 - 110	P	11/08/2024	21:50	LB133365
CCV10	Arsenic	5340	5000	107	90 - 110	P	11/08/2024	23:24	LB133365
	Barium	9550	10000	96	90 - 110	P	11/08/2024	23:24	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	23:24	LB133365
	Chromium	1000	1000	100	90 - 110	P	11/08/2024	23:24	LB133365
	Lead	4980	5000	100	90 - 110	P	11/08/2024	23:24	LB133365

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
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	4900	5000	98	90 - 110	P	11/08/2024	23:24	LB133365
	Silver	1270	1250	102	90 - 110	P	11/08/2024	23:24	LB133365

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	996	1000	100	90 - 110	P	11/19/2024	20:06	LB133525
	Barium	497	520	96	90 - 110	P	11/19/2024	20:06	LB133525
	Cadmium	500	510	98	90 - 110	P	11/19/2024	20:06	LB133525
	Chromium	523	520	100	90 - 110	P	11/19/2024	20:06	LB133525
	Lead	990	1000	99	90 - 110	P	11/19/2024	20:06	LB133525
	Selenium	1020	1000	102	90 - 110	P	11/19/2024	20:06	LB133525
	Silver	251	250	100	90 - 110	P	11/19/2024	20:06	LB133525

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
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	21.7	20.0	108	80 - 120	P	11/19/2024	20:10	LB133525
	Barium	101	100	101	80 - 120	P	11/19/2024	20:10	LB133525
	Cadmium	7.11	6.0	118	80 - 120	P	11/19/2024	20:10	LB133525
	Chromium	10.3	10.0	104	80 - 120	P	11/19/2024	20:10	LB133525
	Lead	11.9	12.0	100	80 - 120	P	11/19/2024	20:10	LB133525
	Selenium	18.5	20.0	92	80 - 120	P	11/19/2024	20:10	LB133525
	Silver	10.4	10.0	104	80 - 120	P	11/19/2024	20:10	LB133525

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4810	5000	96	90 - 110	P	11/19/2024	20:38	LB133525
	Barium	9260	10000	93	90 - 110	P	11/19/2024	20:38	LB133525
	Cadmium	2420	2500	97	90 - 110	P	11/19/2024	20:38	LB133525
	Chromium	1010	1000	101	90 - 110	P	11/19/2024	20:38	LB133525
	Lead	4860	5000	97	90 - 110	P	11/19/2024	20:38	LB133525
	Selenium	4740	5000	95	90 - 110	P	11/19/2024	20:38	LB133525
	Silver	1250	1250	100	90 - 110	P	11/19/2024	20:38	LB133525
CCV02	Arsenic	4710	5000	94	90 - 110	P	11/19/2024	21:36	LB133525
	Barium	10200	10000	102	90 - 110	P	11/19/2024	21:36	LB133525
	Cadmium	2740	2500	109	90 - 110	P	11/19/2024	21:36	LB133525
	Chromium	1090	1000	109	90 - 110	P	11/19/2024	21:36	LB133525
	Lead	5290	5000	106	90 - 110	P	11/19/2024	21:36	LB133525
	Selenium	4570	5000	91	90 - 110	P	11/19/2024	21:36	LB133525
	Silver	1230	1250	98	90 - 110	P	11/19/2024	21:36	LB133525



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

Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture

SDG No.: P4718

Contract: PORT06

Lab Code: CHEM

Case No.: P4718

SAS No.: P4718

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.19	0.2	95	40 - 160	CV	11/08/2024	10:28	LB133352
CRI01	Arsenic	20.1	20.0	100	40 - 160	P	11/08/2024	14:20	LB133365
	Barium	95.0	100	95	40 - 160	P	11/08/2024	14:20	LB133365
	Cadmium	6.16	6.0	103	40 - 160	P	11/08/2024	14:20	LB133365
	Chromium	9.24	10.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Lead	11.8	12.0	98	40 - 160	P	11/08/2024	14:20	LB133365
	Selenium	19.8	20.0	99	40 - 160	P	11/08/2024	14:20	LB133365
	Silver	10.3	10.0	103	40 - 160	P	11/08/2024	14:20	LB133365
CRI01	Arsenic	21.8	20.0	109	40 - 160	P	11/19/2024	20:19	LB133525
	Barium	99.9	100	100	40 - 160	P	11/19/2024	20:19	LB133525
	Cadmium	7.16	6.0	119	40 - 160	P	11/19/2024	20:19	LB133525
	Chromium	10.5	10.0	105	40 - 160	P	11/19/2024	20:19	LB133525
	Lead	11.3	12.0	94	40 - 160	P	11/19/2024	20:19	LB133525
	Selenium	17.2	20.0	86	40 - 160	P	11/19/2024	20:19	LB133525
	Silver	10.3	10.0	103	40 - 160	P	11/19/2024	20:19	LB133525

Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	5.52			-20	20	11/08/2024	14:24	LB133365
	Barium	1.84	6.0	31	-94	106	11/08/2024	14:24	LB133365
	Cadmium	6.11	1.0	611	-5	7	11/08/2024	14:24	LB133365
	Chromium	54.3	52.0	104	42	62	11/08/2024	14:24	LB133365
	Lead	9.97			-12	12	11/08/2024	14:24	LB133365
	Selenium	-14.4			-20	20	11/08/2024	14:24	LB133365
	Silver	-0.087			-10	10	11/08/2024	14:24	LB133365
ICSAB01	Arsenic	115	104	111	88.4	120	11/08/2024	14:30	LB133365
	Barium	496	537	92	437	637	11/08/2024	14:30	LB133365
	Cadmium	979	972	101	826	1120	11/08/2024	14:30	LB133365
	Chromium	521	542	96	460	624	11/08/2024	14:30	LB133365
	Lead	57.3	49.0	117	37	61	11/08/2024	14:30	LB133365
	Selenium	31.2	46.0	68	26	66	11/08/2024	14:30	LB133365
	Silver	198	201	98	170	232	11/08/2024	14:30	LB133365
ICSA01	Arsenic	7.44			-20	20	11/19/2024	20:23	LB133525
	Barium	4.72	6.0	79	-94	106	11/19/2024	20:23	LB133525
	Cadmium	5.53	1.0	553	-5	7	11/19/2024	20:23	LB133525
	Chromium	59.7	52.0	115	42	62	11/19/2024	20:23	LB133525
	Lead	9.28			-12	12	11/19/2024	20:23	LB133525
	Selenium	-19.2			-20	20	11/19/2024	20:23	LB133525
	Silver	-0.77			-10	10	11/19/2024	20:23	LB133525
ICSAB01	Arsenic	115	104	111	88.4	120	11/19/2024	20:27	LB133525
	Barium	493	537	92	437	637	11/19/2024	20:27	LB133525
	Cadmium	1030	972	106	826	1120	11/19/2024	20:27	LB133525
	Chromium	583	542	108	460	624	11/19/2024	20:27	LB133525
	Lead	57.7	49.0	118	37	61	11/19/2024	20:27	LB133525
	Selenium	30.0	46.0	65	26	66	11/19/2024	20:27	LB133525
	Silver	202	201	100	170	232	11/19/2024	20:27	LB133525



METAL

QC

DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>Portal Partners Tri-Venture</u>	level: <u>low</u>	sdg no.: <u>P4718</u>
contract: <u>PORT06</u>	lab code: <u>CHEM</u>	case no.: <u>P4718</u> sas no.: <u>P4718</u>
matrix: <u>Water</u>	sample id: <u>P4718-03</u>	client id: <u>WB-307-SB02MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>P4718-03MS</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	4010		100	U	4000	100		P
Barium	ug/L	75 - 125	2780		1850		1000	94		P
Cadmium	ug/L	75 - 125	1120		30.0	U	1000	112		P
Chromium	ug/L	75 - 125	2340		16.1	J	2000	116		P
Lead	ug/L	75 - 125	5130		60.0	U	5000	103		P
Mercury	ug/L	75 - 125	33.6		2.00	U	40.0	84		CV
Selenium	ug/L	75 - 125	9590		100	U	10000	96		P
Silver	ug/L	75 - 125	362		50.0	U	380	95		P

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Portal Partners Tri-Venture</u>	level: <u>low</u>	sdg no.: <u>P4718</u>
contract: <u>PORT06</u>	lab code: <u>CHEM</u>	case no.: <u>P4718</u> sas no.: <u>P4718</u>
matrix: <u>Water</u>	sample id: <u>P4718-03</u>	client id: <u>WB-307-SB02MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>P4718-03MSD</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	3850		100	U	4000	96		P
Barium	ug/L	75 - 125	2560		1850		1000	72	N	P
Cadmium	ug/L	75 - 125	1080		30.0	U	1000	108		P
Chromium	ug/L	75 - 125	2270		16.1	J	2000	113		P
Lead	ug/L	75 - 125	4900		60.0	U	5000	98		P
Mercury	ug/L	75 - 125	40.7		2.00	U	40.0	102		CV
Selenium	ug/L	75 - 125	9210		100	U	10000	92		P
Silver	ug/L	75 - 125	343		50.0	U	380	90		P

Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
Matrix: Water **Level:** LOW **Client ID:** WB-307-SB02A
Sample ID: P4718-03 **Spiked ID:** P4718-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	2690		1850		1000	84		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
Matrix: Water **Sample ID:** P4718-03 **Client ID:** WB-307-SB02DUP
Percent Solids for Sample: NA **Duplicate ID** P4718-03DUP **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	1850		1790		3		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	16.1	J	14.3	J	12		P
Lead	ug/L	20	60.0	U	60.0	U			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: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718
Matrix: Water **Sample ID:** P4718-03MS **Client ID:** WB-307-SB02MSD
Percent Solids for Sample: NA **Duplicate ID** P4718-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	4010		3850		4		P
Barium	ug/L	20	2780		2560		8		P
Cadmium	ug/L	20	1120		1080		4		P
Chromium	ug/L	20	2340		2270		3		P
Lead	ug/L	20	5130		4900		5		P
Mercury	ug/L	20	33.6		40.7		19		CV
Selenium	ug/L	20	9590		9210		4		P
Silver	ug/L	20	362		343		5		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164768BS							
Arsenic	ug/L	4000	3890		97	80 - 120	P
Barium	ug/L	1000	956		96	80 - 120	P
Cadmium	ug/L	1000	901		90	80 - 120	P
Chromium	ug/L	2000	1800		90	80 - 120	P
Lead	ug/L	5000	4650		93	80 - 120	P
Selenium	ug/L	10000	9760		98	80 - 120	P
Silver	ug/L	380	363		96	80 - 120	P



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Client:	Portal Partners Tri-Venture	SDG No.:	P4718				
Contract:	PORT06	Lab Code:	CHEM	Case No.:	P4718	SAS No.:	P4718

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164791BS Mercury	ug/L	4.0	4.19		105	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

WB-307-SB02L

Lab Name: Chemtech Consulting Group

Contract: PORT06

Lab Code: CHEM **Lb No.:** lb133525 **Lab Sample ID :** P4718-03L **SDG No.:** P4718

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Arsenic	100	U	500	U			P
Barium	1850		2020	J	9		P
Cadmium	30.0	U	150	U			P
Chromium	16.1	J	250	U	100.0		P
Lead	60.0	U	300	U			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: Portal Partners Tri-Venture

Contract: PORT06

Lab code: CHEM **Case no.:** P4718 **Sas no.:** P4718

Sdg no.: P4718

Instrument id number: **Method:**

Run number: LB133352

Start date: 11/08/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1004	HG
S0.2	S0.2	1	1007	HG
S2.5	S2.5	1	1009	HG
S5	S5	1	1011	HG
S7.5	S7.5	1	1013	HG
S10	S10	1	1016	HG
ICV75	ICV75	1	1019	HG
ICB75	ICB75	1	1021	HG
CCV51	CCV51	1	1023	HG
CCB51	CCB51	1	1025	HG
CRA	CRA	1	1028	HG
PB164791BL	PB164791BL	1	1038	HG
PB164791BS	PB164791BS	1	1040	HG
P4718-03	WB-307-SB02	1	1042	HG
P4718-03DUP	WB-307-SB02DUP	1	1044	HG
P4718-03MS	WB-307-SB02MS	1	1047	HG
P4718-03MSD	WB-307-SB02MSD	1	1049	HG
CCV52	CCV52	1	1053	HG
CCB52	CCB52	1	1056	HG
CCV53	CCV53	1	1121	HG
CCB53	CCB53	1	1123	HG
PB164694TB	PB164694TB	1	1125	HG
P4718-03L	WB-307-SB02L	5	1128	HG
CCV54	CCV54	1	1132	HG
CCB54	CCB54	1	1134	HG

metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133365

Start date: 11/08/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1334	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1338	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1343	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1347	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1351	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1355	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1359	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1411	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1416	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1420	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1424	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1430	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1444	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1450	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1529	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1533	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1623	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1628	Ag,As,Ba,Cd,Cr,Pb,Se
PB164694TB	PB164694TB	1	1654	Ag,As,Ba,Cd,Cr,Pb,Se
PB164768BL	PB164768BL	1	1659	Ag,As,Ba,Cd,Cr,Pb,Se
PB164768BS	PB164768BS	1	1703	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1716	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1722	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1804	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1808	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1855	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1859	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1947	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1951	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2048	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2057	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	2150	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	2155	Ag,As,Ba,Cd,Cr,Pb,Se
CCV10	CCV10	1	2324	Ag,As,Ba,Cd,Cr,Pb,Se
CCB10	CCB10	1	2335	Ag,As,Ba,Cd,Cr,Pb,Se

metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133525

Start date: 11/19/2024 **End date:** 11/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1940	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1945	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1949	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1953	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1958	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	2002	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	2006	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	2010	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	2014	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	2019	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	2023	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	2027	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	2038	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	2047	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03DUP	WB-307-SB02DUP	1	2056	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03L	WB-307-SB02L	5	2101	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03MS	WB-307-SB02MS	1	2105	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03	WB-307-SB02	1	2109	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03MSD	WB-307-SB02MSD	1	2114	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03A	WB-307-SB02A	1	2118	Ba
CCV02	CCV02	1	2136	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	2142	Ag,As,Ba,Cd,Cr,Pb,Se



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: P4718

Contract: PORT06

Lab Code: CHEM

Case No.: P4718

SAS No.: P4718

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

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: P4718

Contract: PORT06

Lab Code: CHEM

Case No.: P4718

SAS No.: P4718

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: Portal Partners Tri-Venture

SDG No.: P4718

Contract: PORT06

Lab Code: CHEM

Case No.: P4718

SAS No.: P4718

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: Portal Partners Tri-Venture

SDG No.: P4718

Contract: PORT06

Lab Code: CHEM

Case No.: P4718

SAS No.: P4718

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: Portal Partners Tri-Venture

SDG No.: P4718

Contract: PORT06

Lab Code: CHEM

Case No.: P4718

SAS No.: P4718

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:	P4718	OrderDate:	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	Location:	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	WB-307-SB01	SOIL			11/04/24			11/05/24
			Mercury	7471B		11/07/24	11/07/24	
			Metals ICP-TAL	6010D		11/06/24	11/07/24	
P4718-02	WB-307-SB02	SOIL			11/04/24			11/05/24
			Mercury	7471B		11/07/24	11/07/24	
			Metals ICP-TAL	6010D		11/06/24	11/07/24	
P4718-03	WB-307-SB02	TCLP			11/04/24			11/05/24
			TCLP ICP Metals	6010D		11/07/24	11/19/24	
			TCLP Mercury	7470A		11/07/24	11/08/24	
P4718-04	WB-307-SW	Water			11/04/24			11/05/24
			Mercury	7470A		11/11/24	11/11/24	
			Metals ICP-TAL	6010D		11/07/24	11/08/24	



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Method:**
Case No.: P4718 **SAS No.:** P4718

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB164768							
P4718-03	WB-307-SB02	SAM	WATER	11/07/2024	5.0	25.0	
P4718-03DUP	WB-307-SB02DUP	DUP	WATER	11/07/2024	5.0	25.0	
P4718-03MS	WB-307-SB02MS	MS	WATER	11/07/2024	5.0	25.0	
P4718-03MSD	WB-307-SB02MSD	MSD	WATER	11/07/2024	5.0	25.0	
PB164694TB	PB164694TB	MB	WATER	11/07/2024	5.0	25.0	
PB164768BL	PB164768BL	MB	WATER	11/07/2024	5.0	25.0	
PB164768BS	PB164768BS	LCS	WATER	11/07/2024	5.0	25.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718
Contract: PORT06 **Lab Code:** CHEM **Method:**
Case No.: P4718 **SAS No.:** P4718

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB164791							
P4718-03	WB-307-SB02	SAM	WATER	11/07/2024	3.0	30.0	
P4718-03DUP	WB-307-SB02DUP	DUP	WATER	11/07/2024	3.0	30.0	
P4718-03MS	WB-307-SB02MS	MS	WATER	11/07/2024	3.0	30.0	
P4718-03MSD	WB-307-SB02MSD	MSD	WATER	11/07/2024	3.0	30.0	
PB164694TB	PB164694TB	MB	WATER	11/07/2024	3.0	30.0	
PB164791BL	PB164791BL	MB	WATER	11/07/2024	30.0	30.0	
PB164791BS	PB164791BS	LCS	WATER	11/07/2024	30.0	30.0	

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133352

Review By	jaswal	Review On	11/8/2024 9:50:44 PM
Supervise By	mohan	Supervise On	11/8/2024 9:52:17 PM

STD. NAME	STD REF.#
ICAL Standard	MP83107,MP83108,MP83109,MP83110,MP83111,MP83112
ICV Standard	MP83113
CCV Standard	MP83115
ICSA Standard	
CRI Standard	MP83117
LCS Standard	
Chk Standard	MP83114,MP83116,MP83118,MP83159

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/08/24 10:04		Mohan	OK
2	S0.2	S0.2	CAL2	11/08/24 10:07		Mohan	OK
3	S2.5	S2.5	CAL3	11/08/24 10:09		Mohan	OK
4	S5	S5	CAL4	11/08/24 10:11		Mohan	OK
5	S7.5	S7.5	CAL5	11/08/24 10:13		Mohan	OK
6	S10	S10	CAL6	11/08/24 10:16		Mohan	OK
7	ICV75	ICV75	ICV	11/08/24 10:19		Mohan	OK
8	ICB75	ICB75	ICB	11/08/24 10:21		Mohan	OK
9	CCV51	CCV51	CCV	11/08/24 10:23		Mohan	OK
10	CCB51	CCB51	CCB	11/08/24 10:25		Mohan	OK
11	CRA	CRA	CRDL	11/08/24 10:28		Mohan	OK
12	HighStd	HighStd	HIGH STD	11/08/24 10:30		Mohan	OK
13	ChkStd	ChkStd	SAM	11/08/24 10:35		Mohan	OK
14	PB164791BL	PB164791BL	MB	11/08/24 10:38		Mohan	OK
15	PB164791BS	PB164791BS	LCS	11/08/24 10:40		Mohan	OK
16	P4718-03	WB-307-SB02	SAM	11/08/24 10:42		Mohan	OK
17	P4718-03DUP	WB-307-SB02DUP	DUP	11/08/24 10:44		Mohan	OK
18	P4718-03MS	WB-307-SB02MS	MS	11/08/24 10:47		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133352

Review By	jaswal	Review On	11/8/2024 9:50:44 PM
Supervise By	mohan	Supervise On	11/8/2024 9:52:17 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83107,MP83108,MP83109,MP83110,MP83111,MP83112		
ICV Standard	MP83113		
CCV Standard	MP83115		
ICSA Standard			
CRI Standard	MP83117		
LCS Standard			
Chk Standard	MP83114,MP83116,MP83118,MP83159		

19	P4718-03MSD	WB-307-SB02MSD	MSD	11/08/24 10:49		Mohan	OK
20	P4719-03	BAYAVE-STOCKPILE	SAM	11/08/24 10:51		Mohan	OK
21	CCV52	CCV52	CCV	11/08/24 10:53		Mohan	OK
22	CCB52	CCB52	CCB	11/08/24 10:56		Mohan	OK
23	P4720-05	JC-701-COMP-01	SAM	11/08/24 10:58		Mohan	OK
24	P4722-04	WC-1(0-6)	SAM	11/08/24 11:00		Mohan	OK
25	P4722-09	WC-2(0-6)	SAM	11/08/24 11:03		Mohan	OK
26	P4722-14	WC-3(0-6)	SAM	11/08/24 11:05		Mohan	OK
27	P4732-02	PPE-COMP	SAM	11/08/24 11:07		Mohan	OK
28	P4738-02	72-12018	SAM	11/08/24 11:09		Mohan	OK
29	P4739-04	TP-14	SAM	11/08/24 11:12		Mohan	OK
30	P4739-08	BP-G2	SAM	11/08/24 11:14		Mohan	OK
31	P4739-12	BP-B2	SAM	11/08/24 11:16		Mohan	OK
32	P4739-16	TP-11	SAM	11/08/24 11:18		Mohan	OK
33	CCV53	CCV53	CCV	11/08/24 11:21		Mohan	OK
34	CCB53	CCB53	CCB	11/08/24 11:23		Mohan	OK
35	PB164694TB	PB164694TB	MB	11/08/24 11:25		Mohan	OK
36	P4718-03L	WB-307-SB02L	SD	11/08/24 11:28		Mohan	OK
37	P4718-03A	WB-307-SB02A	PS	11/08/24 11:30		Mohan	OK
38	CCV54	CCV54	CCV	11/08/24 11:32		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133352

Review By	jaswal	Review On	11/8/2024 9:50:44 PM				
Supervise By	mohan	Supervise On	11/8/2024 9:52:17 PM				

STD. NAME	STD REF.#
ICAL Standard	MP83107,MP83108,MP83109,MP83110,MP83111,MP83112
ICV Standard	MP83113
CCV Standard	MP83115
ICSA Standard	
CRI Standard	MP83117
LCS Standard	
Chk Standard	MP83114,MP83116,MP83118,MP83159

39	CCB54	CCB54	CCB	11/08/24 11:34		Mohan	OK
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Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084		
ICV Standard	MP83085		
CCV Standard	MP83088		
ICSA Standard	MP83086,MP83087		
CRI Standard	MP83084		
LCS Standard			
Chk Standard	MP83091,MP83092		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/08/24 13:34		Kareem	OK
2	S1	S1	CAL2	11/08/24 13:38		Kareem	OK
3	S2	S2	CAL3	11/08/24 13:43		Kareem	OK
4	S3	S3	CAL4	11/08/24 13:47		Kareem	OK
5	S4	S4	CAL5	11/08/24 13:51		Kareem	OK
6	S5	S5	CAL6	11/08/24 13:55		Kareem	OK
7	ICV01	ICV01	ICV	11/08/24 13:59	ICV fail for Na (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	11/08/24 14:11		Kareem	OK
9	ICB01	ICB01	ICB	11/08/24 14:16		Kareem	OK
10	CRI01	CRI01	CRDL	11/08/24 14:20		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/08/24 14:24		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/08/24 14:30		Kareem	OK
13	ICSADL	ICSADL	ICSA	11/08/24 14:35		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	11/08/24 14:40		Kareem	OK
15	CCV01	CCV01	CCV	11/08/24 14:44		Kareem	OK
16	CCB01	CCB01	CCB	11/08/24 14:50		Kareem	OK
17	P4578-04DL	WB-305-TOP-1DL	SAM	11/08/24 14:55	5x for Cr	Kareem	Confirms
18	P4719-03	BAYAVE-STOCKPILE	SAM	11/08/24 14:59		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

19	P4720-05	JC-701-COMP-01	SAM	11/08/24 15:03		Kareem	OK
20	P4734-01	EO-03-11062024	SAM	11/08/24 15:07		Kareem	OK
21	P4757-01	001-WILLETS-PT-BL	SAM	11/08/24 15:12		Kareem	OK
22	P4757-02	002-35TH-AVE(SEP)	SAM	11/08/24 15:16		Kareem	OK
23	P4757-03	001-WILLETS-PT-BL	SAM	11/08/24 15:20		Kareem	OK
24	P4757-04	002-35TH-AVE(OCT)	SAM	11/08/24 15:25		Kareem	OK
25	CCV02	CCV02	CCV	11/08/24 15:29		Kareem	OK
26	CCB02	CCB02	CCB	11/08/24 15:33		Kareem	OK
27	P4718-03	WB-307-SB02	SAM	11/08/24 15:39	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
28	P4718-03DUP	WB-307-SB02DUP	DUP	11/08/24 15:44	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
29	P4718-03L	WB-307-SB02L	SD	11/08/24 15:48	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
30	P4718-03MS	WB-307-SB02MS	MS	11/08/24 15:52	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
31	P4718-03MSD	WB-307-SB02MSD	MSD	11/08/24 15:57	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
32	P4718-03A	WB-307-SB02A	PS	11/08/24 16:01	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
33	P4722-04	WC-1(0-6)	SAM	11/08/24 16:06		Kareem	OK
34	P4722-09	WC-2(0-6)	SAM	11/08/24 16:10		Kareem	OK
35	P4722-14	WC-3(0-6)	SAM	11/08/24 16:15		Kareem	OK
36	P4732-02	PPE-COMP	SAM	11/08/24 16:19		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

37	CCV03	CCV03	CCV	11/08/24 16:23		Kareem	OK
38	CCB03	CCB03	CCB	11/08/24 16:28		Kareem	OK
39	P4738-02	72-12018	SAM	11/08/24 16:32		Kareem	OK
40	P4739-04	TP-14	SAM	11/08/24 16:36		Kareem	OK
41	P4739-08	BP-G2	SAM	11/08/24 16:41		Kareem	OK
42	P4739-12	BP-B2	SAM	11/08/24 16:45		Kareem	OK
43	P4739-16	TP-11	SAM	11/08/24 16:50		Kareem	OK
44	PB164694TB	PB164694TB	MB	11/08/24 16:54		Kareem	OK
45	PB164768BL	PB164768BL	MB	11/08/24 16:59		Kareem	OK
46	PB164768BS	PB164768BS	LCS	11/08/24 17:03	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
47	P4762-02	EFF-WW	SAM	11/08/24 17:07		Kareem	OK
48	P4762-02DUP	EFF-WWDUP	DUP	11/08/24 17:11		Kareem	OK
49	CCV04	CCV04	CCV	11/08/24 17:16		Kareem	OK
50	CCB04	CCB04	CCB	11/08/24 17:22		Kareem	OK
51	P4762-02L	EFF-WWL	SD	11/08/24 17:26		Kareem	OK
52	P4762-02MS	EFF-WWMS	MS	11/08/24 17:31	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
53	P4762-02MSD	EFF-WWMSD	MSD	11/08/24 17:35	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

54	P4762-02A	EFF-WWA	PS	11/08/24 17:39	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
55	PB164782BL	PB164782BL	MB	11/08/24 17:43		Kareem	OK
56	PB164782BS	PB164782BS	LCS	11/08/24 17:47	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
57	P4732-01	PPE-COMP	SAM	11/08/24 17:51		Kareem	OK
58	P4737-01	TP2	SAM	11/08/24 17:55		Kareem	OK
59	P4738-01	72-12018	SAM	11/08/24 18:00		Kareem	OK
60	CCV05	CCV05	CCV	11/08/24 18:04		Kareem	OK
61	CCB05	CCB05	CCB	11/08/24 18:08		Kareem	OK
62	P4739-01	TP-14	SAM	11/08/24 18:13		Kareem	OK
63	P4739-05	BP-G2	SAM	11/08/24 18:17		Kareem	OK
64	P4739-09	BP-B2	SAM	11/08/24 18:21		Kareem	OK
65	P4739-13	TP-11	SAM	11/08/24 18:26		Kareem	OK
66	P4739-13DUP	TP-11DUP	DUP	11/08/24 18:30		Kareem	OK
67	P4739-13L	TP-11L	SD	11/08/24 18:34		Kareem	OK
68	P4739-13MS	TP-11MS	MS	11/08/24 18:38	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
69	P4739-13MSD	TP-11MSD	MSD	11/08/24 18:42	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

70	P4739-13A	TP-11A	PS	11/08/24 18:47	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
71	PB164757BL	PB164757BL	MB	11/08/24 18:51		Kareem	OK
72	CCV06	CCV06	CCV	11/08/24 18:55		Kareem	OK
73	CCB06	CCB06	CCB	11/08/24 18:59		Kareem	OK
74	PB164757BS	PB164757BS	LCS	11/08/24 19:03	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
75	P4733-01	402	SAM	11/08/24 19:08		Kareem	OK
76	P4733-01DUP	402DUP	DUP	11/08/24 19:12		Kareem	OK
77	P4733-01L	402L	SD	11/08/24 19:17		Kareem	OK
78	P4733-01MS	402MS	MS	11/08/24 19:21	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
79	P4733-01MSD	402MSD	MSD	11/08/24 19:25	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
80	P4733-01A	402A	PS	11/08/24 19:29	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
81	PB164758BL	PB164758BL	MB	11/08/24 19:34		Kareem	OK
82	PB164758BS	PB164758BS	LCS	11/08/24 19:38	0.1 ML OF M6001 AND M6010 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
83	P4718-04	WB-307-SW	SAM	11/08/24 19:42	Na (Oversaturated)	Kareem	Dilution
84	CCV07	CCV07	CCV	11/08/24 19:47		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084		
ICV Standard	MP83085		
CCV Standard	MP83088		
ICSA Standard	MP83086,MP83087		
CRI Standard	MP83084		
LCS Standard			
Chk Standard	MP83091,MP83092		

85	CCB07	CCB07	CCB	11/08/24 19:51		Kareem	OK
86	P4718-04DUP	WB-307-SWDUP	DUP	11/08/24 19:55	Na (Oversaturated)	Kareem	Dilution
87	P4718-04L	WB-307-SWL	SD	11/08/24 20:00	Na high	Kareem	Dilution
88	P4718-04MS	WB-307-SWMS	MS	11/08/24 20:04	Na (Oversaturated)	Kareem	Dilution
89	P4718-04MSD	WB-307-SWMSD	MSD	11/08/24 20:09	Na (Oversaturated)	Kareem	Dilution
90	P4718-04A	WB-307-SWA	PS	11/08/24 20:14	Na (Oversaturated)	Kareem	Dilution
91	P4736-02	COMP	SAM	11/08/24 20:18		Kareem	OK
92	PB164759BL	PB164759BL	MB	11/08/24 20:22	NOT USE - fail for Na	Kareem	Not Ok
93	PB164759BS	PB164759BS	LCS	11/08/24 20:27	NOT USE - fail for Na	Kareem	Not Ok
94	LR1	LR1	HIGH STD	11/08/24 20:38		Kareem	OK
95	LR2	LR2	HIGH STD	11/08/24 20:42		Kareem	OK
96	CCV08	CCV08	CCV	11/08/24 20:48		Kareem	OK
97	CCB08	CCB08	CCB	11/08/24 20:57		Kareem	OK
98	PB164646BL	PB164646BL	MB	11/08/24 21:02		Kareem	OK
99	PB164646BS	PB164646BS	LCS	11/08/24 21:06		Kareem	OK
100	PB164645BL	PB164645BL	MB	11/08/24 21:10	NOT USE	Kareem	Not Ok
101	PB164645BS	PB164645BS	LCS	11/08/24 21:14	NOT USE	Kareem	Not Ok
102	P4718-04DL	WB-307-SWDL	SAM	11/08/24 21:18	10x for Na	Kareem	Confirms
103	P4718-04DUPDL	WB-307-SWDUPDL	DUP	11/08/24 21:23	10x for Na	Kareem	Confirms
104	P4718-04LDL	WB-307-SWLDL	SD	11/08/24 21:27	50x for Na	Kareem	Confirms

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084		
ICV Standard	MP83085		
CCV Standard	MP83088		
ICSA Standard	MP83086,MP83087		
CRI Standard	MP83084		
LCS Standard			
Chk Standard	MP83091,MP83092		

105	P4718-04MSDL	WB-307-SWMSDL	MS	11/08/24 21:31	10x for Na	Kareem	Confirms
106	P4718-04MSDDL	WB-307-SWMSDDL	MSD	11/08/24 21:36	10x for Na	Kareem	Confirms
107	P4718-04ADL	WB-307-SWADL	PS	11/08/24 21:40	10x for Na	Kareem	Confirms
108	CCV09	CCV09	CCV	11/08/24 21:50		Kareem	OK
109	CCB09	CCB09	CCB	11/08/24 21:55		Kareem	OK
110	P4681-01	Q4-WW	SAM	11/08/24 21:59	NOT USE	Kareem	Not Ok
111	P4681-01DL	Q4-WWDL	SAM	11/08/24 22:24	Straight 25x Dilution for all elements	Kareem	OK
112	P4681-01DUPDL	Q4-WWDUPDL	DUP	11/08/24 22:29	Straight 25x Dilution for all elements	Kareem	OK
113	P4681-01LDL	Q4-WWLDL	SD	11/08/24 22:33	Straight 125x Dilution for all elements	Kareem	OK
114	P4681-01MSDL	Q4-WWMSDL	MS	11/08/24 22:44	Straight 25x Dilution for all elements	Kareem	OK
115	P4681-01MSDDL	Q4-WWMSDDL	MSD	11/08/24 22:53	Straight 25x Dilution for all elements	Kareem	OK
116	P4681-01ADL	Q4-WWADL	PS	11/08/24 23:07	Straight 25x Dilution for all elements	Kareem	OK
117	CCV10	CCV10	CCV	11/08/24 23:24		Kareem	OK
118	CCB10	CCB10	CCB	11/08/24 23:35		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133525

Review By	kareem	Review On	11/20/2024 11:34:50 AM
Supervise By	mohan	Supervise On	11/21/2024 1:10:00 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084		
ICV Standard	mp83085		
CCV Standard	MP83088		
ICSA Standard	MP83086 MP83087		
CRI Standard	mp83084		
LCS Standard			
Chk Standard	MP83091 MP83092		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/19/24 19:40		Kareem	OK
2	S1	S1	CAL2	11/19/24 19:45		Kareem	OK
3	S2	S2	CAL3	11/19/24 19:49		Kareem	OK
4	S3	S3	CAL4	11/19/24 19:53		Kareem	OK
5	S4	S4	CAL5	11/19/24 19:58		Kareem	OK
6	S5	S5	CAL6	11/19/24 20:02		Kareem	OK
7	ICV01	ICV01	ICV	11/19/24 20:06		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/19/24 20:10		Kareem	OK
9	ICB01	ICB01	ICB	11/19/24 20:14		Kareem	OK
10	CRI01	CRI01	CRDL	11/19/24 20:19		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/19/24 20:23		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/19/24 20:27		Kareem	OK
13	CCV01	CCV01	CCV	11/19/24 20:38		Kareem	OK
14	CCB01	CCB01	CCB	11/19/24 20:47		Kareem	OK
15	P4718-03DUP	WB-307-SB02DUP	DUP	11/19/24 20:56		Kareem	OK
16	P4718-03L	WB-307-SB02L	SD	11/19/24 21:01		Kareem	OK
17	P4718-03MS	WB-307-SB02MS	MS	11/19/24 21:05	0.1ML OF M6010 AND M6001 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
18	P4718-03	WB-307-SB02	SAM	11/19/24 21:09		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133525

Review By	kareem	Review On	11/20/2024 11:34:50 AM
Supervise By	mohan	Supervise On	11/21/2024 1:10:00 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084		
ICV Standard	mp83085		
CCV Standard	MP83088		
ICSA Standard	MP83086 MP83087		
CRI Standard	mp83084		
LCS Standard			
Chk Standard	MP83091 MP83092		

19	P4718-03MSD	WB-307-SB02MSD	MSD	11/19/24 21:14	0.1ML OF M6010 AND M6001 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
20	P4718-03A	WB-307-SB02A	PS	11/19/24 21:18	0.1ML OF M6010 AND M6001 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
21	P4341-01DL	10324-0DL	SAM	11/19/24 21:22	NOT USE	Kareem	Not Ok
22	LR1	LR1	HIGH STD	11/19/24 21:26		Kareem	OK
23	LR2	LR2	HIGH STD	11/19/24 21:31		Kareem	OK
24	CCV02	CCV02	CCV	11/19/24 21:36		Kareem	OK
25	CCB02	CCB02	CCB	11/19/24 21:42		Kareem	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: 11/07/2024 Time : 12:30 Temp : 96 °C

End Digest Date: 11/07/2024 Time : 15:45 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JSP

Supervisor Signature: [Signature]

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
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	M6117
1:1 HCL	5.00	MP83105
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
11/7/24 16:00	JSP / Mtdig	[Signature]
	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
P4718-03	WB-307-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	30
P4718-03DUP	WB-307-SB02DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	31
P4718-03MS	WB-307-SB02MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	32
P4718-03MSD	WB-307-SB02MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	33
P4719-03	BAYAVE-STOCKPILE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	34
P4720-05	JC-701-COMP-01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	35
P4722-04	WC-1(0-6)	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	36
P4722-09	WC-2(0-6)	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	37
P4722-14	WC-3(0-6)	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	38
P4732-02	PPE-COMP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	39
P4738-02	72-12018	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	40
P4739-04	TP-14	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	41
P4739-08	BP-G2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	42
P4739-12	BP-B2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	43
P4739-16	TP-11	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	44
PB164694TB	PB164694TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	45
PB164768BL	PBW768	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	46
PB164768BS	LCS768	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	47

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pipette ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

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

Start Digest Date: 11/07/2024 Time : 11:50 Temp : 95 °C

End Digest Date: 11/07/2024 Time : 13:50 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: *MB*

Supervisor Signature: *12*

Temp : 1. 95°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP83113
CCV	30mL	MP83115
CRA	30mL	MP83117
Blank Spike	0.48mL	MP83106
Matrix Spike	0.48mL	MP83106

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP82651
KMnO4 (5%)	4.5mL	MP82652
K2S2O8 (5%)	2.5mL	MP82653
Hydroxylamine HCL (12%)	2.0mL	MP82654
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	MP83107
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83108
2.5 ppb	S2.5	30mL	MP83109
5.0 ppb	S5.0	30mL	MP83110
7.5 ppb	S7.5	30mL	MP83111
10.0 ppb	S10.0	30mL	MP83112
ICV	ICV	30mL	MP83113
ICB	ICB	30mL	MP83114
CCV	CCV	30mL	MP83115
CCB	CCB	30mL	MP83116
CRI	CRI	30mL	MP83117
CHK STD	CHK STD	30mL	MP83118

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 014:26	<i>MB - Mrg. LHS</i>	<i>MB - Mrg. LHS</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4718-03	WB-307-SB02	3	30	<2	N/A	3-1
P4718-03DUP	WB-307-SB02DUP	3	30	<2	N/A	2
P4718-03MS	WB-307-SB02MS	3	30	<2	MP83106	3
P4718-03MSD	WB-307-SB02MSD	3	30	<2	MP83106	4
P4719-03	BAYAVE-STOCKPILE	3	30	<2	N/A	5
P4720-05	JC-701-COMP-01	3	30	<2	N/A	6
P4722-04	WC-1(0-6)	3	30	<2	N/A	7
P4722-09	WC-2(0-6)	3	30	<2	N/A	8
P4722-14	WC-3(0-6)	3	30	<2	N/A	9
P4732-02	PPE-COMP	3	30	<2	N/A	10
P4738-02	72-12018	3	30	<2	N/A	11
P4739-04	TP-14	3	30	<2	N/A	12
P4739-08	BP-G2	3	30	<2	N/A	13
P4739-12	BP-B2	3	30	<2	N/A	14
P4739-16	TP-11	3	30	<2	N/A	15
PB164694TB	PB164694TB	3	30	<2	N/A	16
PB164791BL	PBW791	30	30	<2	N/A	17
PB164791BS	LCS791	30	30	<2	MP83106	18

SOP ID :	<u>M1311-TCLP-15</u>	Start Prep Date :	<u>11/06/2024</u>	Time :	<u>16:45</u>
SDG No :	<u>N/A</u>	End Prep Date :	<u>11/07/2024</u>	Time :	<u>09:35</u>
Welgh By :	<u>JP</u>	Combination Ratio :	<u>20</u>		
Balance ID :	<u>WC SC-4</u>	ZHE Cleaning Batch :	<u>N/A</u>		
pH Meter ID :	<u>WC PH METER-1</u>	Initial Room Temperature:	<u>24 °C</u>		
Extraction By :	<u>JP</u>	Final Room Temperature:	<u>23 °C</u>		
Filter By :	<u>JP</u>	TCLP Technician Signature :	<u><i>JP</i></u>		
Pippete ID :	<u>WC</u>	Supervisor By :	<u><i>SJ</i></u>		
Tumbler ID :	<u>T-1 / T-2</u>				
TCLP Filter ID :	<u>114771</u>				

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
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftation and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. p4718-03 is used for MS-MSD. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
<u>11/07/24 11:00</u>	<u><i>SJ</i></u> <u><i>Lab Room</i></u>	<u><i>JP</i></u> <u><i>Lab Room</i></u>
	Preparation Group	Analysis Group <u><i>JP</i></u>

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
P4718-03	WB-307-SB02	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
P4719-03	BAYAVE-STOCKPILE	02	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4720-05	JC-701-COMP-01	03	100.04	2000	N/A	N/A	N/A	3.5	1.0	T-1
P4722-04	WC-1(0-6)	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4722-09	WC-2(0-6)	05	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4722-14	WC-3(0-6)	06	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
P4732-02	PPE-COMP	07	100.00	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4738-02	72-12018	08	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4739-04	TP-14	09	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4739-08	BP-G2	10	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4739-12	BP-B2	11	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-2
P4739-16	TP-11	12	100.04	2000	N/A	N/A	N/A	8.2	1.5	T-2
PB164694TB	LEB694	13	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4718-03	WB-307-SB02	N/A	N/A	N/A	N/A	100	N/A
P4719-03	BAYAVE-STOCKPILE	N/A	N/A	N/A	N/A	100	N/A
P4720-05	JC-701-COMP-01	N/A	N/A	N/A	N/A	100	N/A
P4722-04	WC-1(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-09	WC-2(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-14	WC-3(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4732-02	PPE-COMP	N/A	N/A	N/A	N/A	100	N/A
P4738-02	72-12018	N/A	N/A	N/A	N/A	100	N/A
P4739-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
P4739-08	BP-G2	N/A	N/A	N/A	N/A	100	N/A
P4739-12	BP-B2	N/A	N/A	N/A	N/A	100	N/A
P4739-16	TP-11	N/A	N/A	N/A	N/A	100	N/A
PB164694TB	LEB694	N/A	N/A	N/A	N/A	N/A	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
P4718-03	WB-307-SB02	5.02	96.5	8.4	3.0	#1	4.94
P4719-03	BAYAVE-STOCKPILE	5.01	96.5	8.4	3.0	#1	4.94
P4720-05	JC-701-COMP-01	5.02	96.5	6.0	2.0	#1	4.94
P4722-04	WC-1(0-6)	5.03	96.5	9.4	4.0	#1	4.94
P4722-09	WC-2(0-6)	5.02	96.5	9.0	3.5	#1	4.94
P4722-14	WC-3(0-6)	5.01	96.5	8.6	3.5	#1	4.94
P4732-02	PPE-COMP	5.00	96.5	8.4	3.0	#1	4.94
P4738-02	72-12018	5.02	96.5	7.0	2.5	#1	4.94
P4739-04	TP-14	5.03	96.5	7.2	2.5	#1	4.94
P4739-08	BP-G2	5.04	96.5	8.0	3.0	#1	4.94
P4739-12	BP-B2	5.02	96.5	7.6	2.5	#1	4.94
P4739-16	TP-11	5.01	96.5	10.0	4.0	#1	4.94
PB164694TB	LEB694	N/A	N/A	N/A	N/A	#1	4.94