

LAB CHRONICLE

OrderID: Q2820	OrderDate: 8/11/2025 12:29:00 PM
Client: First Environment, Inc.	Project: USACE018-44 DOD
Contact: Al Smith	Location: D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2820-09	705R-S	SOIL	Mercury	7471B	08/07/25	08/11/25	08/12/25	08/08/25
			Metals ICP-TAL	6010D		08/12/25	08/13/25	
Q2820-10	SOIL-DUP-2	SOIL	Mercury	7471B	08/07/25	08/11/25	08/12/25	08/08/25
			Metals ICP-TAL	6010D		08/12/25	08/13/25	
Q2820-24	22M-S	SOIL	Mercury	7471B	08/08/25	08/11/25	08/12/25	08/08/25
			Metals ICP-TAL	6010D		08/12/25	08/13/25	

Hit Summary Sheet SW-846

SDG No.: Q2820 **Order ID:** Q2820
Client: First Environment, Inc. **Project ID:** USACE018-44 DOD

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : 705R-S									
Q2820-09	705R-S	SOIL	Aluminum	4860		1.34	6.37	7.96	mg/Kg
Q2820-09	705R-S	SOIL	Arsenic	5.01		0.30	1.27	1.59	mg/Kg
Q2820-09	705R-S	SOIL	Barium	8.76		1.16	1.99	7.96	mg/Kg
Q2820-09	705R-S	SOIL	Beryllium	0.35	J	0.040	0.12	0.48	mg/Kg
Q2820-09	705R-S	SOIL	Cadmium	0.56		0.038	0.12	0.48	mg/Kg
Q2820-09	705R-S	SOIL	Calcium	1230		17.7	39.8	159	mg/Kg
Q2820-09	705R-S	SOIL	Chromium	11.5		0.075	0.20	0.80	mg/Kg
Q2820-09	705R-S	SOIL	Cobalt	9.29		0.16	0.60	2.39	mg/Kg
Q2820-09	705R-S	SOIL	Copper	6.51		0.35	1.27	1.59	mg/Kg
Q2820-09	705R-S	SOIL	Iron	10400		6.36	6.37	7.96	mg/Kg
Q2820-09	705R-S	SOIL	Lead	8.38		0.21	0.77	0.96	mg/Kg
Q2820-09	705R-S	SOIL	Magnesium	1500		19.1	39.8	159	mg/Kg
Q2820-09	705R-S	SOIL	Manganese	45.6		0.22	0.40	1.59	mg/Kg
Q2820-09	705R-S	SOIL	Nickel	10.0		0.21	0.80	3.19	mg/Kg
Q2820-09	705R-S	SOIL	Potassium	721		44.1	127	159	mg/Kg
Q2820-09	705R-S	SOIL	Selenium	0.62	J	0.41	1.27	1.59	mg/Kg
Q2820-09	705R-S	SOIL	Silver	0.44	J	0.19	0.40	0.80	mg/Kg
Q2820-09	705R-S	SOIL	Sodium	1540		28.4	127	159	mg/Kg
Q2820-09	705R-S	SOIL	Vanadium	16.7		0.40	1.59	3.19	mg/Kg
Q2820-09	705R-S	SOIL	Zinc	24.9		0.37	0.80	3.19	mg/Kg
Client ID : SOIL-DUP-2									
Q2820-10	SOIL-DUP-2	SOIL	Aluminum	4210		1.60	7.62	9.52	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Arsenic	4.37		0.36	1.52	1.90	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Barium	9.43	J	1.39	2.38	9.52	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Beryllium	0.26	J	0.048	0.14	0.57	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Cadmium	0.26	J	0.046	0.14	0.57	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Calcium	1620		21.1	47.6	190	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Chromium	14.3		0.089	0.24	0.95	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Cobalt	1.99	J	0.19	0.71	2.86	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Copper	4.06		0.42	1.52	1.90	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Iron	7050		7.60	7.62	9.52	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Lead	6.97		0.25	0.91	1.14	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Magnesium	1660		22.9	47.6	190	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Manganese	28.4		0.27	0.48	1.90	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Nickel	4.79		0.25	0.95	3.81	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Potassium	1060		52.7	152	190	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Selenium	0.56	J	0.50	1.52	1.90	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2820

Order ID: Q2820

Client: First Environment, Inc.

Project ID: USACE018-44 DOD

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Q2820-10	SOIL-DUP-2	SOIL	Silver	0.32	J	0.23	0.48	0.95	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Sodium	2440		33.9	152	190	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Vanadium	22.0		0.48	1.90	3.81	mg/Kg
Q2820-10	SOIL-DUP-2	SOIL	Zinc	11.1		0.44	0.95	3.81	mg/Kg

Client ID : 22M-S

Q2820-24	22M-S	SOIL	Aluminum	552		0.84	4.01	5.02	mg/Kg
Q2820-24	22M-S	SOIL	Arsenic	0.50	J	0.19	0.80	1.00	mg/Kg
Q2820-24	22M-S	SOIL	Barium	1.70	J	0.73	1.25	5.02	mg/Kg
Q2820-24	22M-S	SOIL	Beryllium	0.071	J	0.025	0.075	0.30	mg/Kg
Q2820-24	22M-S	SOIL	Cadmium	0.075	J	0.024	0.075	0.30	mg/Kg
Q2820-24	22M-S	SOIL	Calcium	57.4	J	11.1	25.1	100	mg/Kg
Q2820-24	22M-S	SOIL	Chromium	2.47		0.047	0.13	0.50	mg/Kg
Q2820-24	22M-S	SOIL	Cobalt	0.36	J	0.10	0.38	1.50	mg/Kg
Q2820-24	22M-S	SOIL	Copper	2.56		0.22	0.80	1.00	mg/Kg
Q2820-24	22M-S	SOIL	Iron	1120		4.00	4.01	5.02	mg/Kg
Q2820-24	22M-S	SOIL	Lead	1.22		0.13	0.48	0.60	mg/Kg
Q2820-24	22M-S	SOIL	Magnesium	148		12.0	25.1	100	mg/Kg
Q2820-24	22M-S	SOIL	Manganese	5.78		0.14	0.25	1.00	mg/Kg
Q2820-24	22M-S	SOIL	Nickel	1.13	J	0.13	0.50	2.01	mg/Kg
Q2820-24	22M-S	SOIL	Potassium	69.4	J	27.8	80.3	100	mg/Kg
Q2820-24	22M-S	SOIL	Sodium	29.3	J	17.9	80.3	100	mg/Kg
Q2820-24	22M-S	SOIL	Vanadium	1.24	J	0.25	1.00	2.01	mg/Kg
Q2820-24	22M-S	SOIL	Zinc	7.43		0.23	0.50	2.01	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	705R-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	55.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4860		1	1.34	6.37	7.96	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-36-0	Antimony	1.00	UN	1	0.35	1.00	3.98	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-38-2	Arsenic	5.01	N	1	0.30	1.27	1.59	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-39-3	Barium	8.76		1	1.16	1.99	7.96	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-41-7	Beryllium	0.35	JN	1	0.040	0.12	0.48	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-43-9	Cadmium	0.56		1	0.038	0.12	0.48	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-70-2	Calcium	1230		1	17.7	39.8	159	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-47-3	Chromium	11.5	N	1	0.075	0.20	0.80	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-48-4	Cobalt	9.29		1	0.16	0.60	2.39	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-50-8	Copper	6.51		1	0.35	1.27	1.59	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7439-89-6	Iron	10400	*	1	6.36	6.37	7.96	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7439-92-1	Lead	8.38		1	0.21	0.77	0.96	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7439-95-4	Magnesium	1500		1	19.1	39.8	159	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7439-96-5	Manganese	45.6		1	0.22	0.40	1.59	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7439-97-6	Mercury	0.019	U	1	0.013	0.019	0.023	mg/Kg	08/11/25 16:30	08/12/25 11:29	7471B	
7440-02-0	Nickel	10.0		1	0.21	0.80	3.19	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-09-7	Potassium	721	N	1	44.1	127	159	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7782-49-2	Selenium	0.62	JN	1	0.41	1.27	1.59	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-22-4	Silver	0.44	JN	1	0.19	0.40	0.80	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-23-5	Sodium	1540		1	28.4	127	159	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-28-0	Thallium	1.59	UN	1	0.37	1.59	3.19	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-62-2	Vanadium	16.7	N*	1	0.40	1.59	3.19	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050
7440-66-6	Zinc	24.9		1	0.37	0.80	3.19	mg/Kg	08/12/25 12:55	08/13/25 16:23	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	SOIL-DUP-2	SDG No.:	Q2820
Lab Sample ID:	Q2820-10	Matrix:	SOIL
Level (low/med):	low	% Solid:	48.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4210		1	1.60	7.62	9.52	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-36-0	Antimony	1.19	UN	1	0.42	1.19	4.76	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-38-2	Arsenic	4.37	N	1	0.36	1.52	1.90	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-39-3	Barium	9.43	J	1	1.39	2.38	9.52	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-41-7	Beryllium	0.26	JN	1	0.048	0.14	0.57	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-43-9	Cadmium	0.26	J	1	0.046	0.14	0.57	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-70-2	Calcium	1620		1	21.1	47.6	190	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-47-3	Chromium	14.3	N	1	0.089	0.24	0.95	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-48-4	Cobalt	1.99	J	1	0.19	0.71	2.86	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-50-8	Copper	4.06		1	0.42	1.52	1.90	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7439-89-6	Iron	7050	*	1	7.60	7.62	9.52	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7439-92-1	Lead	6.97		1	0.25	0.91	1.14	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7439-95-4	Magnesium	1660		1	22.9	47.6	190	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7439-96-5	Manganese	28.4		1	0.27	0.48	1.90	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7439-97-6	Mercury	0.023	U	1	0.016	0.023	0.028	mg/Kg	08/11/25 16:30	08/12/25 11:31	7471B	
7440-02-0	Nickel	4.79		1	0.25	0.95	3.81	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-09-7	Potassium	1060	N	1	52.7	152	190	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7782-49-2	Selenium	0.56	JN	1	0.50	1.52	1.90	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-22-4	Silver	0.32	JN	1	0.23	0.48	0.95	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-23-5	Sodium	2440		1	33.9	152	190	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-28-0	Thallium	1.90	UN	1	0.44	1.90	3.81	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-62-2	Vanadium	22.0	N*	1	0.48	1.90	3.81	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050
7440-66-6	Zinc	11.1		1	0.44	0.95	3.81	mg/Kg	08/12/25 12:55	08/13/25 16:27	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-24	Matrix:	SOIL
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	552		1	0.84	4.01	5.02	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-36-0	Antimony	0.63	UN	1	0.22	0.63	2.51	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-38-2	Arsenic	0.50	JN	1	0.19	0.80	1.00	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-39-3	Barium	1.70	J	1	0.73	1.25	5.02	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-41-7	Beryllium	0.071	JN	1	0.025	0.075	0.30	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-43-9	Cadmium	0.075	J	1	0.024	0.075	0.30	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-70-2	Calcium	57.4	J	1	11.1	25.1	100	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-47-3	Chromium	2.47	N	1	0.047	0.13	0.50	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-48-4	Cobalt	0.36	J	1	0.10	0.38	1.50	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-50-8	Copper	2.56		1	0.22	0.80	1.00	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7439-89-6	Iron	1120	*	1	4.00	4.01	5.02	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7439-92-1	Lead	1.22		1	0.13	0.48	0.60	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7439-95-4	Magnesium	148		1	12.0	25.1	100	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7439-96-5	Manganese	5.78		1	0.14	0.25	1.00	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7439-97-6	Mercury	0.012	U	1	0.0090	0.012	0.015	mg/Kg	08/11/25 16:30	08/12/25 11:34	7471B	
7440-02-0	Nickel	1.13	J	1	0.13	0.50	2.01	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-09-7	Potassium	69.4	JN	1	27.8	80.3	100	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7782-49-2	Selenium	0.80	UN	1	0.26	0.80	1.00	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-22-4	Silver	0.25	UN	1	0.12	0.25	0.50	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-23-5	Sodium	29.3	J	1	17.9	80.3	100	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-28-0	Thallium	1.00	UN	1	0.23	1.00	2.01	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-62-2	Vanadium	1.24	JN*	1	0.25	1.00	2.01	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050
7440-66-6	Zinc	7.43		1	0.23	0.50	2.01	mg/Kg	08/12/25 12:55	08/13/25 16:31	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

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



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

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
ICV08	Mercury	4.39	4.0	110	90 - 110	CV	08/12/2025	09:56	LB136782

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

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
CCV22	Mercury	5.22	5.0	104	90 - 110	CV	08/12/2025	10:03	LB136782
CCV23	Mercury	5.26	5.0	105	90 - 110	CV	08/12/2025	11:11	LB136782
CCV24	Mercury	5.28	5.0	106	90 - 110	CV	08/12/2025	11:51	LB136782
CCV25	Mercury	5.14	5.0	103	90 - 110	CV	08/12/2025	12:32	LB136782
CCV26	Mercury	4.84	5.0	97	90 - 110	CV	08/12/2025	12:55	LB136782

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	7680	8000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Antimony	4000	4000	100	90 - 110	P	08/13/2025	12:21	LB136801
	Arsenic	3870	4000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Barium	7790	8000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Beryllium	189	200	95	90 - 110	P	08/13/2025	12:21	LB136801
	Cadmium	1920	2000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Calcium	19200	20000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Chromium	788	800	98	90 - 110	P	08/13/2025	12:21	LB136801
	Cobalt	1950	2000	98	90 - 110	P	08/13/2025	12:21	LB136801
	Copper	997	1000	100	90 - 110	P	08/13/2025	12:21	LB136801
	Iron	3950	4000	99	90 - 110	P	08/13/2025	12:21	LB136801
	Lead	3770	4000	94	90 - 110	P	08/13/2025	12:21	LB136801
	Magnesium	19100	20000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Manganese	1920	2000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Nickel	1950	2000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Potassium	19400	20000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Selenium	3880	4000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Silver	1030	1000	103	90 - 110	P	08/13/2025	12:21	LB136801
	Sodium	19100	20000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Thallium	3750	4000	94	90 - 110	P	08/13/2025	12:21	LB136801
	Vanadium	1940	2000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Zinc	1950	2000	98	90 - 110	P	08/13/2025	12:21	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	95.1	100	95	80 - 120	P	08/13/2025	12:28	LB136801
	Antimony	50.1	50.0	100	80 - 120	P	08/13/2025	12:28	LB136801
	Arsenic	21.3	20.0	106	80 - 120	P	08/13/2025	12:28	LB136801
	Barium	94.7	100	95	80 - 120	P	08/13/2025	12:28	LB136801
	Beryllium	6.08	6.0	101	80 - 120	P	08/13/2025	12:28	LB136801
	Cadmium	5.59	6.0	93	80 - 120	P	08/13/2025	12:28	LB136801
	Calcium	2040	2000	102	80 - 120	P	08/13/2025	12:28	LB136801
	Chromium	10.5	10.0	105	80 - 120	P	08/13/2025	12:28	LB136801
	Cobalt	29.4	30.0	98	80 - 120	P	08/13/2025	12:28	LB136801
	Copper	21.3	20.0	107	80 - 120	P	08/13/2025	12:28	LB136801
	Iron	107	100	107	80 - 120	P	08/13/2025	12:28	LB136801
	Lead	11.2	12.0	93	80 - 120	P	08/13/2025	12:28	LB136801
	Magnesium	2120	2000	106	80 - 120	P	08/13/2025	12:28	LB136801
	Manganese	21.0	20.0	105	80 - 120	P	08/13/2025	12:28	LB136801
	Nickel	39.6	40.0	99	80 - 120	P	08/13/2025	12:28	LB136801
	Potassium	1990	2000	100	80 - 120	P	08/13/2025	12:28	LB136801
	Selenium	19.2	20.0	96	80 - 120	P	08/13/2025	12:28	LB136801
	Silver	10.1	10.0	101	80 - 120	P	08/13/2025	12:28	LB136801
	Sodium	1850	2000	92	80 - 120	P	08/13/2025	12:28	LB136801
	Thallium	43.0	40.0	107	80 - 120	P	08/13/2025	12:28	LB136801
	Vanadium	38.9	40.0	97	80 - 120	P	08/13/2025	12:28	LB136801
	Zinc	42.4	40.0	106	80 - 120	P	08/13/2025	12:28	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9630	10000	96	90 - 110	P	08/13/2025	12:58	LB136801
	Antimony	4930	5000	99	90 - 110	P	08/13/2025	12:58	LB136801
	Arsenic	4900	5000	98	90 - 110	P	08/13/2025	12:58	LB136801
	Barium	9640	10000	96	90 - 110	P	08/13/2025	12:58	LB136801
	Beryllium	240	250	96	90 - 110	P	08/13/2025	12:58	LB136801
	Cadmium	2430	2500	97	90 - 110	P	08/13/2025	12:58	LB136801
	Calcium	24100	25000	96	90 - 110	P	08/13/2025	12:58	LB136801
	Chromium	1000	1000	100	90 - 110	P	08/13/2025	12:58	LB136801
	Cobalt	2420	2500	97	90 - 110	P	08/13/2025	12:58	LB136801
	Copper	1230	1250	98	90 - 110	P	08/13/2025	12:58	LB136801
	Iron	5030	5000	101	90 - 110	P	08/13/2025	12:58	LB136801
	Lead	4860	5000	97	90 - 110	P	08/13/2025	12:58	LB136801
	Magnesium	24000	25000	96	90 - 110	P	08/13/2025	12:58	LB136801
	Manganese	2390	2500	96	90 - 110	P	08/13/2025	12:58	LB136801
	Nickel	2430	2500	97	90 - 110	P	08/13/2025	12:58	LB136801
	Potassium	25000	25000	100	90 - 110	P	08/13/2025	12:58	LB136801
	Selenium	4930	5000	98	90 - 110	P	08/13/2025	12:58	LB136801
	Silver	1230	1250	99	90 - 110	P	08/13/2025	12:58	LB136801
	Sodium	24600	25000	99	90 - 110	P	08/13/2025	12:58	LB136801
	Thallium	4820	5000	96	90 - 110	P	08/13/2025	12:58	LB136801
	Vanadium	2420	2500	97	90 - 110	P	08/13/2025	12:58	LB136801
	Zinc	2490	2500	99	90 - 110	P	08/13/2025	12:58	LB136801
CCV02	Aluminum	9700	10000	97	90 - 110	P	08/13/2025	13:42	LB136801
	Antimony	4970	5000	99	90 - 110	P	08/13/2025	13:42	LB136801
	Arsenic	4950	5000	99	90 - 110	P	08/13/2025	13:42	LB136801
	Barium	9660	10000	97	90 - 110	P	08/13/2025	13:42	LB136801
	Beryllium	240	250	96	90 - 110	P	08/13/2025	13:42	LB136801
	Cadmium	2430	2500	97	90 - 110	P	08/13/2025	13:42	LB136801
	Calcium	24200	25000	97	90 - 110	P	08/13/2025	13:42	LB136801
	Chromium	987	1000	99	90 - 110	P	08/13/2025	13:42	LB136801
	Cobalt	2430	2500	97	90 - 110	P	08/13/2025	13:42	LB136801
	Copper	1230	1250	99	90 - 110	P	08/13/2025	13:42	LB136801
	Iron	4980	5000	100	90 - 110	P	08/13/2025	13:42	LB136801
	Lead	4850	5000	97	90 - 110	P	08/13/2025	13:42	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24100	25000	96	90 - 110	P	08/13/2025	13:42	LB136801
	Manganese	2420	2500	97	90 - 110	P	08/13/2025	13:42	LB136801
	Nickel	2430	2500	97	90 - 110	P	08/13/2025	13:42	LB136801
	Potassium	24600	25000	98	90 - 110	P	08/13/2025	13:42	LB136801
	Selenium	4980	5000	100	90 - 110	P	08/13/2025	13:42	LB136801
	Silver	1240	1250	99	90 - 110	P	08/13/2025	13:42	LB136801
	Sodium	24100	25000	96	90 - 110	P	08/13/2025	13:42	LB136801
	Thallium	4960	5000	99	90 - 110	P	08/13/2025	13:42	LB136801
	Vanadium	2450	2500	98	90 - 110	P	08/13/2025	13:42	LB136801
	Zinc	2460	2500	98	90 - 110	P	08/13/2025	13:42	LB136801
CCV03	Aluminum	9650	10000	96	90 - 110	P	08/13/2025	14:33	LB136801
	Antimony	5020	5000	100	90 - 110	P	08/13/2025	14:33	LB136801
	Arsenic	4990	5000	100	90 - 110	P	08/13/2025	14:33	LB136801
	Barium	9670	10000	97	90 - 110	P	08/13/2025	14:33	LB136801
	Beryllium	238	250	95	90 - 110	P	08/13/2025	14:33	LB136801
	Cadmium	2430	2500	97	90 - 110	P	08/13/2025	14:33	LB136801
	Calcium	24100	25000	96	90 - 110	P	08/13/2025	14:33	LB136801
	Chromium	993	1000	99	90 - 110	P	08/13/2025	14:33	LB136801
	Cobalt	2430	2500	97	90 - 110	P	08/13/2025	14:33	LB136801
	Copper	1240	1250	99	90 - 110	P	08/13/2025	14:33	LB136801
	Iron	5010	5000	100	90 - 110	P	08/13/2025	14:33	LB136801
	Lead	4860	5000	97	90 - 110	P	08/13/2025	14:33	LB136801
	Magnesium	23900	25000	96	90 - 110	P	08/13/2025	14:33	LB136801
	Manganese	2390	2500	96	90 - 110	P	08/13/2025	14:33	LB136801
	Nickel	2440	2500	98	90 - 110	P	08/13/2025	14:33	LB136801
	Potassium	24700	25000	99	90 - 110	P	08/13/2025	14:33	LB136801
	Selenium	5020	5000	100	90 - 110	P	08/13/2025	14:33	LB136801
	Silver	1240	1250	99	90 - 110	P	08/13/2025	14:33	LB136801
	Sodium	23300	25000	93	90 - 110	P	08/13/2025	14:33	LB136801
	Thallium	4820	5000	96	90 - 110	P	08/13/2025	14:33	LB136801
	Vanadium	2450	2500	98	90 - 110	P	08/13/2025	14:33	LB136801
	Zinc	2480	2500	99	90 - 110	P	08/13/2025	14:33	LB136801
CCV04	Aluminum	9760	10000	98	90 - 110	P	08/13/2025	15:23	LB136801
	Antimony	5060	5000	101	90 - 110	P	08/13/2025	15:23	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5010	5000	100	90 - 110	P	08/13/2025	15:23	LB136801
	Barium	9660	10000	97	90 - 110	P	08/13/2025	15:23	LB136801
	Beryllium	239	250	96	90 - 110	P	08/13/2025	15:23	LB136801
	Cadmium	2430	2500	97	90 - 110	P	08/13/2025	15:23	LB136801
	Calcium	24300	25000	97	90 - 110	P	08/13/2025	15:23	LB136801
	Chromium	991	1000	99	90 - 110	P	08/13/2025	15:23	LB136801
	Cobalt	2430	2500	97	90 - 110	P	08/13/2025	15:23	LB136801
	Copper	1240	1250	99	90 - 110	P	08/13/2025	15:23	LB136801
	Iron	5000	5000	100	90 - 110	P	08/13/2025	15:23	LB136801
	Lead	4860	5000	97	90 - 110	P	08/13/2025	15:23	LB136801
	Magnesium	24200	25000	97	90 - 110	P	08/13/2025	15:23	LB136801
	Manganese	2390	2500	96	90 - 110	P	08/13/2025	15:23	LB136801
	Nickel	2440	2500	98	90 - 110	P	08/13/2025	15:23	LB136801
	Potassium	24700	25000	99	90 - 110	P	08/13/2025	15:23	LB136801
	Selenium	5070	5000	101	90 - 110	P	08/13/2025	15:23	LB136801
	Silver	1240	1250	99	90 - 110	P	08/13/2025	15:23	LB136801
	Sodium	23700	25000	95	90 - 110	P	08/13/2025	15:23	LB136801
	Thallium	4760	5000	95	90 - 110	P	08/13/2025	15:23	LB136801
	Vanadium	2470	2500	99	90 - 110	P	08/13/2025	15:23	LB136801
	Zinc	2500	2500	100	90 - 110	P	08/13/2025	15:23	LB136801
CCV05	Aluminum	9690	10000	97	90 - 110	P	08/13/2025	16:14	LB136801
	Antimony	5090	5000	102	90 - 110	P	08/13/2025	16:14	LB136801
	Arsenic	5010	5000	100	90 - 110	P	08/13/2025	16:14	LB136801
	Barium	9840	10000	98	90 - 110	P	08/13/2025	16:14	LB136801
	Beryllium	235	250	94	90 - 110	P	08/13/2025	16:14	LB136801
	Cadmium	2400	2500	96	90 - 110	P	08/13/2025	16:14	LB136801
	Calcium	24100	25000	96	90 - 110	P	08/13/2025	16:14	LB136801
	Chromium	991	1000	99	90 - 110	P	08/13/2025	16:14	LB136801
	Cobalt	2420	2500	97	90 - 110	P	08/13/2025	16:14	LB136801
	Copper	1240	1250	100	90 - 110	P	08/13/2025	16:14	LB136801
	Iron	5090	5000	102	90 - 110	P	08/13/2025	16:14	LB136801
	Lead	4810	5000	96	90 - 110	P	08/13/2025	16:14	LB136801
	Magnesium	23800	25000	95	90 - 110	P	08/13/2025	16:14	LB136801
	Manganese	2380	2500	95	90 - 110	P	08/13/2025	16:14	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2430	2500	97	90 - 110	P	08/13/2025	16:14	LB136801
	Potassium	25000	25000	100	90 - 110	P	08/13/2025	16:14	LB136801
	Selenium	5070	5000	101	90 - 110	P	08/13/2025	16:14	LB136801
	Silver	1250	1250	100	90 - 110	P	08/13/2025	16:14	LB136801
	Sodium	23800	25000	95	90 - 110	P	08/13/2025	16:14	LB136801
	Thallium	4540	5000	91	90 - 110	P	08/13/2025	16:14	LB136801
	Vanadium	2460	2500	98	90 - 110	P	08/13/2025	16:14	LB136801
	Zinc	2510	2500	101	90 - 110	P	08/13/2025	16:14	LB136801
CCV06	Aluminum	9690	10000	97	90 - 110	P	08/13/2025	17:05	LB136801
	Antimony	5110	5000	102	90 - 110	P	08/13/2025	17:05	LB136801
	Arsenic	5040	5000	101	90 - 110	P	08/13/2025	17:05	LB136801
	Barium	9810	10000	98	90 - 110	P	08/13/2025	17:05	LB136801
	Beryllium	238	250	95	90 - 110	P	08/13/2025	17:05	LB136801
	Cadmium	2420	2500	97	90 - 110	P	08/13/2025	17:05	LB136801
	Calcium	24100	25000	97	90 - 110	P	08/13/2025	17:05	LB136801
	Chromium	988	1000	99	90 - 110	P	08/13/2025	17:05	LB136801
	Cobalt	2430	2500	97	90 - 110	P	08/13/2025	17:05	LB136801
	Copper	1250	1250	100	90 - 110	P	08/13/2025	17:05	LB136801
	Iron	5070	5000	102	90 - 110	P	08/13/2025	17:05	LB136801
	Lead	4850	5000	97	90 - 110	P	08/13/2025	17:05	LB136801
	Magnesium	24000	25000	96	90 - 110	P	08/13/2025	17:05	LB136801
	Manganese	2400	2500	96	90 - 110	P	08/13/2025	17:05	LB136801
	Nickel	2440	2500	98	90 - 110	P	08/13/2025	17:05	LB136801
	Potassium	24800	25000	99	90 - 110	P	08/13/2025	17:05	LB136801
	Selenium	5150	5000	103	90 - 110	P	08/13/2025	17:05	LB136801
	Silver	1260	1250	100	90 - 110	P	08/13/2025	17:05	LB136801
	Sodium	23300	25000	93	90 - 110	P	08/13/2025	17:05	LB136801
	Thallium	5380	5000	108	90 - 110	P	08/13/2025	17:05	LB136801
	Vanadium	2460	2500	98	90 - 110	P	08/13/2025	17:05	LB136801
	Zinc	2520	2500	101	90 - 110	P	08/13/2025	17:05	LB136801
CCV07	Aluminum	9840	10000	98	90 - 110	P	08/13/2025	17:46	LB136801
	Antimony	5120	5000	102	90 - 110	P	08/13/2025	17:46	LB136801
	Arsenic	5060	5000	101	90 - 110	P	08/13/2025	17:46	LB136801
	Barium	9850	10000	98	90 - 110	P	08/13/2025	17:46	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

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
CCV07	Beryllium	241	250	96	90 - 110	P	08/13/2025	17:46	LB136801
	Cadmium	2440	2500	98	90 - 110	P	08/13/2025	17:46	LB136801
	Calcium	24600	25000	98	90 - 110	P	08/13/2025	17:46	LB136801
	Chromium	1010	1000	101	90 - 110	P	08/13/2025	17:46	LB136801
	Cobalt	2450	2500	98	90 - 110	P	08/13/2025	17:46	LB136801
	Copper	1250	1250	100	90 - 110	P	08/13/2025	17:46	LB136801
	Iron	5140	5000	103	90 - 110	P	08/13/2025	17:46	LB136801
	Lead	4880	5000	98	90 - 110	P	08/13/2025	17:46	LB136801
	Magnesium	24400	25000	98	90 - 110	P	08/13/2025	17:46	LB136801
	Manganese	2430	2500	97	90 - 110	P	08/13/2025	17:46	LB136801
	Nickel	2460	2500	98	90 - 110	P	08/13/2025	17:46	LB136801
	Potassium	24800	25000	99	90 - 110	P	08/13/2025	17:46	LB136801
	Selenium	5160	5000	103	90 - 110	P	08/13/2025	17:46	LB136801
	Silver	1260	1250	100	90 - 110	P	08/13/2025	17:46	LB136801
	Sodium	23600	25000	95	90 - 110	P	08/13/2025	17:46	LB136801
	Thallium	5360	5000	107	90 - 110	P	08/13/2025	17:46	LB136801
	Vanadium	2490	2500	100	90 - 110	P	08/13/2025	17:46	LB136801
	Zinc	2530	2500	101	90 - 110	P	08/13/2025	17:46	LB136801

Metals

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CRDL STANDARD FOR AA & ICP

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.23	0.2	113	70 - 130	CV	08/12/2025	10:34	LB136782
CRI01	Aluminum	92.9	100	93	65 - 135	P	08/13/2025	12:37	LB136801
	Antimony	50.2	50.0	100	65 - 135	P	08/13/2025	12:37	LB136801
	Arsenic	20.6	20.0	103	65 - 135	P	08/13/2025	12:37	LB136801
	Barium	93.9	100	94	65 - 135	P	08/13/2025	12:37	LB136801
	Beryllium	6.01	6.0	100	65 - 135	P	08/13/2025	12:37	LB136801
	Cadmium	5.49	6.0	92	65 - 135	P	08/13/2025	12:37	LB136801
	Calcium	2010	2000	100	65 - 135	P	08/13/2025	12:37	LB136801
	Chromium	10.00	10.0	100	65 - 135	P	08/13/2025	12:37	LB136801
	Cobalt	29.0	30.0	97	65 - 135	P	08/13/2025	12:37	LB136801
	Copper	20.9	20.0	104	65 - 135	P	08/13/2025	12:37	LB136801
	Iron	95.9	100	96	65 - 135	P	08/13/2025	12:37	LB136801
	Lead	10.0	12.0	83	65 - 135	P	08/13/2025	12:37	LB136801
	Magnesium	2120	2000	106	65 - 135	P	08/13/2025	12:37	LB136801
	Manganese	20.8	20.0	104	65 - 135	P	08/13/2025	12:37	LB136801
	Nickel	38.7	40.0	97	65 - 135	P	08/13/2025	12:37	LB136801
	Potassium	1930	2000	97	65 - 135	P	08/13/2025	12:37	LB136801
	Selenium	21.1	20.0	106	65 - 135	P	08/13/2025	12:37	LB136801
	Silver	10.3	10.0	103	65 - 135	P	08/13/2025	12:37	LB136801
	Sodium	1810	2000	91	65 - 135	P	08/13/2025	12:37	LB136801
	Thallium	40.7	40.0	102	65 - 135	P	08/13/2025	12:37	LB136801
	Vanadium	42.3	40.0	106	65 - 135	P	08/13/2025	12:37	LB136801
	Zinc	41.0	40.0	102	65 - 135	P	08/13/2025	12:37	LB136801



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB08	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	08/12/2025	10:01	LB136782

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB22	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	08/12/2025	10:08	LB136782
CCB23	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	08/12/2025	11:21	LB136782
CCB24	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	08/12/2025	11:54	LB136782
CCB25	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	08/12/2025	12:37	LB136782
CCB26	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	08/12/2025	13:00	LB136782

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	80.0	100	P	08/13/2025	12:33	LB136801
	Antimony	6.76	+/-25	U	12.5	50.0	P	08/13/2025	12:33	LB136801
	Arsenic	5.12	+/-10	U	15.0	20.0	P	08/13/2025	12:33	LB136801
	Barium	14.6	+/-50	U	25.0	100	P	08/13/2025	12:33	LB136801
	Beryllium	0.56	+/-3	U	1.50	6.00	P	08/13/2025	12:33	LB136801
	Cadmium	0.50	+/-3	U	1.50	6.00	P	08/13/2025	12:33	LB136801
	Calcium	234	+/-1000	U	500	2000	P	08/13/2025	12:33	LB136801
	Chromium	2.12	+/-5	U	5.00	10.0	P	08/13/2025	12:33	LB136801
	Cobalt	2.26	+/-15	U	7.50	30.0	P	08/13/2025	12:33	LB136801
	Copper	4.60	+/-10	U	16.0	20.0	P	08/13/2025	12:33	LB136801
	Iron	23.4	+/-50	U	80.0	100	P	08/13/2025	12:33	LB136801
	Lead	2.30	+/-6	U	9.60	12.0	P	08/13/2025	12:33	LB136801
	Magnesium	244	+/-1000	U	500	2000	P	08/13/2025	12:33	LB136801
	Manganese	5.94	+/-10	U	15.0	20.0	P	08/13/2025	12:33	LB136801
	Nickel	3.06	+/-20	U	10.0	40.0	P	08/13/2025	12:33	LB136801
	Potassium	918	+/-1000	U	1600	2000	P	08/13/2025	12:33	LB136801
	Selenium	9.64	+/-10	U	16.0	20.0	P	08/13/2025	12:33	LB136801
	Silver	1.62	+/-5	U	5.00	10.0	P	08/13/2025	12:33	LB136801
	Sodium	868	+/-1000	U	1000	2000	P	08/13/2025	12:33	LB136801
	Thallium	4.38	+/-20	U	20.0	40.0	P	08/13/2025	12:33	LB136801
	Vanadium	6.26	+/-20	U	20.0	40.0	P	08/13/2025	12:33	LB136801
	Zinc	16.7	+/-20	U	15.0	40.0	P	08/13/2025	12:33	LB136801

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	80.0	100	P	08/13/2025	13:03	LB136801
	Antimony	6.76	+/-25	U	12.5	50.0	P	08/13/2025	13:03	LB136801
	Arsenic	5.12	+/-10	U	15.0	20.0	P	08/13/2025	13:03	LB136801
	Barium	14.6	+/-50	U	25.0	100	P	08/13/2025	13:03	LB136801
	Beryllium	0.56	+/-3	U	1.50	6.00	P	08/13/2025	13:03	LB136801
	Cadmium	0.50	+/-3	U	1.50	6.00	P	08/13/2025	13:03	LB136801
	Calcium	234	+/-1000	U	500	2000	P	08/13/2025	13:03	LB136801
	Chromium	2.12	+/-5	U	5.00	10.0	P	08/13/2025	13:03	LB136801
	Cobalt	2.26	+/-15	U	7.50	30.0	P	08/13/2025	13:03	LB136801
	Copper	4.60	+/-10	U	16.0	20.0	P	08/13/2025	13:03	LB136801
	Iron	23.4	+/-50	U	80.0	100	P	08/13/2025	13:03	LB136801
	Lead	2.30	+/-6	U	9.60	12.0	P	08/13/2025	13:03	LB136801
	Magnesium	244	+/-1000	U	500	2000	P	08/13/2025	13:03	LB136801
	Manganese	5.94	+/-10	U	15.0	20.0	P	08/13/2025	13:03	LB136801
	Nickel	3.06	+/-20	U	10.0	40.0	P	08/13/2025	13:03	LB136801
	Potassium	918	+/-1000	U	1600	2000	P	08/13/2025	13:03	LB136801
	Selenium	9.64	+/-10	U	16.0	20.0	P	08/13/2025	13:03	LB136801
	Silver	1.62	+/-5	U	5.00	10.0	P	08/13/2025	13:03	LB136801
	Sodium	868	+/-1000	U	1000	2000	P	08/13/2025	13:03	LB136801
	Thallium	4.38	+/-20	U	20.0	40.0	P	08/13/2025	13:03	LB136801
	Vanadium	6.26	+/-20	U	20.0	40.0	P	08/13/2025	13:03	LB136801
	Zinc	16.7	+/-20	U	15.0	40.0	P	08/13/2025	13:03	LB136801
CCB02	Aluminum	11.3	+/-50	U	80.0	100	P	08/13/2025	13:46	LB136801
	Antimony	6.76	+/-25	U	12.5	50.0	P	08/13/2025	13:46	LB136801
	Arsenic	5.12	+/-10	U	15.0	20.0	P	08/13/2025	13:46	LB136801
	Barium	14.6	+/-50	U	25.0	100	P	08/13/2025	13:46	LB136801
	Beryllium	0.56	+/-3	U	1.50	6.00	P	08/13/2025	13:46	LB136801
	Cadmium	0.50	+/-3	U	1.50	6.00	P	08/13/2025	13:46	LB136801
	Calcium	234	+/-1000	U	500	2000	P	08/13/2025	13:46	LB136801
	Chromium	2.12	+/-5	U	5.00	10.0	P	08/13/2025	13:46	LB136801
	Cobalt	2.26	+/-15	U	7.50	30.0	P	08/13/2025	13:46	LB136801
	Copper	4.60	+/-10	U	16.0	20.0	P	08/13/2025	13:46	LB136801
	Iron	23.4	+/-50	U	80.0	100	P	08/13/2025	13:46	LB136801
	Lead	2.30	+/-6	U	9.60	12.0	P	08/13/2025	13:46	LB136801
	Magnesium	244	+/-1000	U	500	2000	P	08/13/2025	13:46	LB136801
	Manganese	5.94	+/-10	U	15.0	20.0	P	08/13/2025	13:46	LB136801
	Nickel	3.06	+/-20	U	10.0	40.0	P	08/13/2025	13:46	LB136801
	Potassium	918	+/-1000	U	1600	2000	P	08/13/2025	13:46	LB136801
	Selenium	9.64	+/-10	U	16.0	20.0	P	08/13/2025	13:46	LB136801

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	5.00	10.0	P	08/13/2025	13:46	LB136801
	Sodium	868	+/-1000	U	1000	2000	P	08/13/2025	13:46	LB136801
	Thallium	4.38	+/-20	U	20.0	40.0	P	08/13/2025	13:46	LB136801
	Vanadium	6.26	+/-20	U	20.0	40.0	P	08/13/2025	13:46	LB136801
	Zinc	16.7	+/-20	U	15.0	40.0	P	08/13/2025	13:46	LB136801
CCB03	Aluminum	11.3	+/-50	U	80.0	100	P	08/13/2025	14:37	LB136801
	Antimony	6.76	+/-25	U	12.5	50.0	P	08/13/2025	14:37	LB136801
	Arsenic	5.12	+/-10	U	15.0	20.0	P	08/13/2025	14:37	LB136801
	Barium	14.6	+/-50	U	25.0	100	P	08/13/2025	14:37	LB136801
	Beryllium	0.56	+/-3	U	1.50	6.00	P	08/13/2025	14:37	LB136801
	Cadmium	0.50	+/-3	U	1.50	6.00	P	08/13/2025	14:37	LB136801
	Calcium	234	+/-1000	U	500	2000	P	08/13/2025	14:37	LB136801
	Chromium	2.12	+/-5	U	5.00	10.0	P	08/13/2025	14:37	LB136801
	Cobalt	2.26	+/-15	U	7.50	30.0	P	08/13/2025	14:37	LB136801
	Copper	4.60	+/-10	U	16.0	20.0	P	08/13/2025	14:37	LB136801
	Iron	23.4	+/-50	U	80.0	100	P	08/13/2025	14:37	LB136801
	Lead	2.30	+/-6	U	9.60	12.0	P	08/13/2025	14:37	LB136801
	Magnesium	244	+/-1000	U	500	2000	P	08/13/2025	14:37	LB136801
	Manganese	5.94	+/-10	U	15.0	20.0	P	08/13/2025	14:37	LB136801
	Nickel	3.06	+/-20	U	10.0	40.0	P	08/13/2025	14:37	LB136801
	Potassium	918	+/-1000	U	1600	2000	P	08/13/2025	14:37	LB136801
	Selenium	9.64	+/-10	U	16.0	20.0	P	08/13/2025	14:37	LB136801
	Silver	1.62	+/-5	U	5.00	10.0	P	08/13/2025	14:37	LB136801
	Sodium	868	+/-1000	U	1000	2000	P	08/13/2025	14:37	LB136801
	Thallium	4.38	+/-20	U	20.0	40.0	P	08/13/2025	14:37	LB136801
	Vanadium	6.26	+/-20	U	20.0	40.0	P	08/13/2025	14:37	LB136801
	Zinc	16.7	+/-20	U	15.0	40.0	P	08/13/2025	14:37	LB136801
CCB04	Aluminum	11.3	+/-50	U	80.0	100	P	08/13/2025	15:27	LB136801
	Antimony	6.76	+/-25	U	12.5	50.0	P	08/13/2025	15:27	LB136801
	Arsenic	5.12	+/-10	U	15.0	20.0	P	08/13/2025	15:27	LB136801
	Barium	14.6	+/-50	U	25.0	100	P	08/13/2025	15:27	LB136801
	Beryllium	0.56	+/-3	U	1.50	6.00	P	08/13/2025	15:27	LB136801
	Cadmium	0.50	+/-3	U	1.50	6.00	P	08/13/2025	15:27	LB136801
	Calcium	234	+/-1000	U	500	2000	P	08/13/2025	15:27	LB136801
	Chromium	2.12	+/-5	U	5.00	10.0	P	08/13/2025	15:27	LB136801
	Cobalt	2.26	+/-15	U	7.50	30.0	P	08/13/2025	15:27	LB136801
	Copper	4.60	+/-10	U	16.0	20.0	P	08/13/2025	15:27	LB136801
	Iron	23.4	+/-50	U	80.0	100	P	08/13/2025	15:27	LB136801
	Lead	2.30	+/-6	U	9.60	12.0	P	08/13/2025	15:27	LB136801

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	500	2000	P	08/13/2025	15:27	LB136801
	Manganese	5.94	+/-10	U	15.0	20.0	P	08/13/2025	15:27	LB136801
	Nickel	3.06	+/-20	U	10.0	40.0	P	08/13/2025	15:27	LB136801
	Potassium	918	+/-1000	U	1600	2000	P	08/13/2025	15:27	LB136801
	Selenium	9.64	+/-10	U	16.0	20.0	P	08/13/2025	15:27	LB136801
	Silver	1.62	+/-5	U	5.00	10.0	P	08/13/2025	15:27	LB136801
	Sodium	868	+/-1000	U	1000	2000	P	08/13/2025	15:27	LB136801
	Thallium	4.38	+/-20	U	20.0	40.0	P	08/13/2025	15:27	LB136801
	Vanadium	6.26	+/-20	U	20.0	40.0	P	08/13/2025	15:27	LB136801
	Zinc	16.7	+/-20	U	15.0	40.0	P	08/13/2025	15:27	LB136801
CCB05	Aluminum	11.3	+/-50	U	80.0	100	P	08/13/2025	16:19	LB136801
	Antimony	6.76	+/-25	U	12.5	50.0	P	08/13/2025	16:19	LB136801
	Arsenic	5.12	+/-10	U	15.0	20.0	P	08/13/2025	16:19	LB136801
	Barium	14.6	+/-50	U	25.0	100	P	08/13/2025	16:19	LB136801
	Beryllium	0.56	+/-3	U	1.50	6.00	P	08/13/2025	16:19	LB136801
	Cadmium	0.50	+/-3	U	1.50	6.00	P	08/13/2025	16:19	LB136801
	Calcium	234	+/-1000	U	500	2000	P	08/13/2025	16:19	LB136801
	Chromium	2.12	+/-5	U	5.00	10.0	P	08/13/2025	16:19	LB136801
	Cobalt	2.26	+/-15	U	7.50	30.0	P	08/13/2025	16:19	LB136801
	Copper	4.60	+/-10	U	16.0	20.0	P	08/13/2025	16:19	LB136801
	Iron	23.4	+/-50	U	80.0	100	P	08/13/2025	16:19	LB136801
	Lead	2.30	+/-6	U	9.60	12.0	P	08/13/2025	16:19	LB136801
	Magnesium	244	+/-1000	U	500	2000	P	08/13/2025	16:19	LB136801
	Manganese	5.94	+/-10	U	15.0	20.0	P	08/13/2025	16:19	LB136801
	Nickel	3.06	+/-20	U	10.0	40.0	P	08/13/2025	16:19	LB136801
	Potassium	918	+/-1000	U	1600	2000	P	08/13/2025	16:19	LB136801
	Selenium	9.64	+/-10	U	16.0	20.0	P	08/13/2025	16:19	LB136801
	Silver	1.62	+/-5	U	5.00	10.0	P	08/13/2025	16:19	LB136801
	Sodium	868	+/-1000	U	1000	2000	P	08/13/2025	16:19	LB136801
	Thallium	4.38	+/-20	U	20.0	40.0	P	08/13/2025	16:19	LB136801
CCB06	Vanadium	6.26	+/-20	U	20.0	40.0	P	08/13/2025	16:19	LB136801
	Zinc	16.7	+/-20	U	15.0	40.0	P	08/13/2025	16:19	LB136801
	Aluminum	11.3	+/-50	U	80.0	100	P	08/13/2025	17:09	LB136801
	Antimony	6.76	+/-25	U	12.5	50.0	P	08/13/2025	17:09	LB136801
	Arsenic	5.12	+/-10	U	15.0	20.0	P	08/13/2025	17:09	LB136801
	Barium	14.6	+/-50	U	25.0	100	P	08/13/2025	17:09	LB136801
	Beryllium	0.56	+/-3	U	1.50	6.00	P	08/13/2025	17:09	LB136801
	Cadmium	0.50	+/-3	U	1.50	6.00	P	08/13/2025	17:09	LB136801
	Calcium	234	+/-1000	U	500	2000	P	08/13/2025	17:09	LB136801

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	5.00	10.0	P	08/13/2025	17:09	LB136801
	Cobalt	2.26	+/-15	U	7.50	30.0	P	08/13/2025	17:09	LB136801
	Copper	4.60	+/-10	U	16.0	20.0	P	08/13/2025	17:09	LB136801
	Iron	23.4	+/-50	U	80.0	100	P	08/13/2025	17:09	LB136801
	Lead	2.30	+/-6	U	9.60	12.0	P	08/13/2025	17:09	LB136801
	Magnesium	244	+/-1000	U	500	2000	P	08/13/2025	17:09	LB136801
	Manganese	5.94	+/-10	U	15.0	20.0	P	08/13/2025	17:09	LB136801
	Nickel	3.06	+/-20	U	10.0	40.0	P	08/13/2025	17:09	LB136801
	Potassium	918	+/-1000	U	1600	2000	P	08/13/2025	17:09	LB136801
	Selenium	9.64	+/-10	U	16.0	20.0	P	08/13/2025	17:09	LB136801
	Silver	1.62	+/-5	U	5.00	10.0	P	08/13/2025	17:09	LB136801
	Sodium	868	+/-1000	U	1000	2000	P	08/13/2025	17:09	LB136801
	Thallium	4.38	+/-20	U	20.0	40.0	P	08/13/2025	17:09	LB136801
	Vanadium	6.26	+/-20	U	20.0	40.0	P	08/13/2025	17:09	LB136801
	Zinc	16.7	+/-20	U	15.0	40.0	P	08/13/2025	17:09	LB136801
CCB07	Aluminum	11.3	+/-50	U	80.0	100	P	08/13/2025	17:50	LB136801
	Antimony	6.76	+/-25	U	12.5	50.0	P	08/13/2025	17:50	LB136801
	Arsenic	5.12	+/-10	U	15.0	20.0	P	08/13/2025	17:50	LB136801
	Barium	14.6	+/-50	U	25.0	100	P	08/13/2025	17:50	LB136801
	Beryllium	0.56	+/-3	U	1.50	6.00	P	08/13/2025	17:50	LB136801
	Cadmium	0.50	+/-3	U	1.50	6.00	P	08/13/2025	17:50	LB136801
	Calcium	234	+/-1000	U	500	2000	P	08/13/2025	17:50	LB136801
	Chromium	2.12	+/-5	U	5.00	10.0	P	08/13/2025	17:50	LB136801
	Cobalt	2.26	+/-15	U	7.50	30.0	P	08/13/2025	17:50	LB136801
	Copper	4.60	+/-10	U	16.0	20.0	P	08/13/2025	17:50	LB136801
	Iron	23.4	+/-50	U	80.0	100	P	08/13/2025	17:50	LB136801
	Lead	2.30	+/-6	U	9.60	12.0	P	08/13/2025	17:50	LB136801
	Magnesium	244	+/-1000	U	500	2000	P	08/13/2025	17:50	LB136801
	Manganese	5.94	+/-10	U	15.0	20.0	P	08/13/2025	17:50	LB136801
	Nickel	3.06	+/-20	U	10.0	40.0	P	08/13/2025	17:50	LB136801
	Potassium	918	+/-1000	U	1600	2000	P	08/13/2025	17:50	LB136801
	Selenium	9.64	+/-10	U	16.0	20.0	P	08/13/2025	17:50	LB136801
	Silver	1.62	+/-5	U	5.00	10.0	P	08/13/2025	17:50	LB136801
	Sodium	868	+/-1000	U	1000	2000	P	08/13/2025	17:50	LB136801
	Thallium	4.38	+/-20	U	20.0	40.0	P	08/13/2025	17:50	LB136801
	Vanadium	6.26	+/-20	U	20.0	40.0	P	08/13/2025	17:50	LB136801
	Zinc	16.7	+/-20	U	15.0	40.0	P	08/13/2025	17:50	LB136801

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB169204BL		SOLID		Batch Number:		PB169204		Prep Date:	08/11/2025	
	Mercury	0.0080	<0.014	U	0.011	0.014	CV	08/12/2025	10:46	LB136782

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB169211BL	SOLID			Batch Number:	PB169211			Prep Date:	08/12/2025	
	Aluminum	0.84	<2.5	U	4.00	5.00	P	08/13/2025	15:06	LB136801
	Antimony	0.22	<1.25	U	0.63	2.50	P	08/13/2025	15:06	LB136801
	Arsenic	0.19	<0.5	U	0.80	1.00	P	08/13/2025	15:06	LB136801
	Barium	0.73	<2.5	U	1.25	5.00	P	08/13/2025	15:06	LB136801
	Beryllium	0.025	<0.15	U	0.075	0.30	P	08/13/2025	15:06	LB136801
	Cadmium	0.024	<0.15	U	0.075	0.30	P	08/13/2025	15:06	LB136801
	Calcium	11.1	<50	U	25.0	100	P	08/13/2025	15:06	LB136801
	Chromium	0.047	<0.25	U	0.13	0.50	P	08/13/2025	15:06	LB136801
	Cobalt	0.10	<0.75	U	0.38	1.50	P	08/13/2025	15:06	LB136801
	Copper	0.22	<0.5	U	0.80	1.00	P	08/13/2025	15:06	LB136801
	Iron	3.99	<2.5	U	4.00	5.00	P	08/13/2025	15:06	LB136801
	Lead	0.13	<0.3	U	0.48	0.60	P	08/13/2025	15:06	LB136801
	Magnesium	12.0	<50	U	25.0	100	P	08/13/2025	15:06	LB136801
	Manganese	0.14	<0.5	U	0.25	1.00	P	08/13/2025	15:06	LB136801
	Nickel	0.13	<1	U	0.50	2.00	P	08/13/2025	15:06	LB136801
	Potassium	27.7	<50	U	80.0	100	P	08/13/2025	15:06	LB136801
	Selenium	0.26	<0.5	U	0.80	1.00	P	08/13/2025	15:06	LB136801
	Silver	0.12	<0.25	U	0.25	0.50	P	08/13/2025	15:06	LB136801
	Sodium	17.8	<50	U	80.0	100	P	08/13/2025	15:06	LB136801
	Thallium	0.23	<1	U	1.00	2.00	P	08/13/2025	15:06	LB136801
	Vanadium	0.25	<1	U	1.00	2.00	P	08/13/2025	15:06	LB136801
	Zinc	0.23	<1	U	0.50	2.00	P	08/13/2025	15:06	LB136801

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>First Environment, Inc.</u>	SDG No.: <u>Q2820</u>
Contract: <u>FIRS02</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	240000	255000	94	216000	294000	08/13/2025	12:41	LB136801
	Antimony	-4.82			-50	50	08/13/2025	12:41	LB136801
	Arsenic	13.5			-20	20	08/13/2025	12:41	LB136801
	Barium	-0.47	6.0	8	-94	106	08/13/2025	12:41	LB136801
	Beryllium	1.31			-6	6	08/13/2025	12:41	LB136801
	Cadmium	2.33	1.0	233	-5	7	08/13/2025	12:41	LB136801
	Calcium	229000	245000	94	208000	282000	08/13/2025	12:41	LB136801
	Chromium	58.2	52.0	112	42	62	08/13/2025	12:41	LB136801
	Cobalt	1.85			-30	30	08/13/2025	12:41	LB136801
	Copper	4.82	2.0	241	-18	22	08/13/2025	12:41	LB136801
	Iron	99200	101000	98	85600	116500	08/13/2025	12:41	LB136801
	Lead	-6.38			-12	12	08/13/2025	12:41	LB136801
	Magnesium	243000	255000	95	216000	294000	08/13/2025	12:41	LB136801
	Manganese	8.17	7.0	117	-13	27	08/13/2025	12:41	LB136801
	Nickel	5.22	2.0	261	-38	42	08/13/2025	12:41	LB136801
	Potassium	-4.10			0	0	08/13/2025	12:41	LB136801
	Selenium	2.91			-20	20	08/13/2025	12:41	LB136801
	Silver	2.33			-10	10	08/13/2025	12:41	LB136801
	Sodium	3.06			0	0	08/13/2025	12:41	LB136801
	Thallium	2.91			-40	40	08/13/2025	12:41	LB136801
	Vanadium	3.65			-40	40	08/13/2025	12:41	LB136801
	Zinc	2.20			-40	40	08/13/2025	12:41	LB136801
ICSAB01	Aluminum	247000	247000	100	209000	285000	08/13/2025	12:45	LB136801
	Antimony	588	618	95	525	711	08/13/2025	12:45	LB136801
	Arsenic	111	104	107	88.4	120	08/13/2025	12:45	LB136801
	Barium	492	537	92	437	637	08/13/2025	12:45	LB136801
	Beryllium	487	495	98	420	570	08/13/2025	12:45	LB136801
	Cadmium	994	972	102	826	1120	08/13/2025	12:45	LB136801
	Calcium	236000	235000	100	199000	271000	08/13/2025	12:45	LB136801
	Chromium	558	542	103	460	624	08/13/2025	12:45	LB136801
	Cobalt	498	476	105	404	548	08/13/2025	12:45	LB136801
	Copper	486	511	95	434	588	08/13/2025	12:45	LB136801
	Iron	102000	99300	103	84400	114500	08/13/2025	12:45	LB136801
	Lead	42.2	49.0	86	37	61	08/13/2025	12:45	LB136801
	Magnesium	250000	248000	101	210000	286000	08/13/2025	12:45	LB136801
	Manganese	493	507	97	430	584	08/13/2025	12:45	LB136801
	Nickel	992	954	104	810	1100	08/13/2025	12:45	LB136801
	Potassium	42.9			0	0	08/13/2025	12:45	LB136801
	Selenium	50.5	46.0	110	26	66	08/13/2025	12:45	LB136801
	Silver	216	201	108	170	232	08/13/2025	12:45	LB136801
	Sodium	-3.58			0	0	08/13/2025	12:45	LB136801
	Thallium	113	108	105	68	148	08/13/2025	12:45	LB136801

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

ICS Source: EPA

Instrument ID: P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	479	491	98	417	565	08/13/2025	12:45	LB136801
	Zinc	1040	952	109	809	1095	08/13/2025	12:45	LB136801



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: First Environment, Inc. **level:** low **sdg no.:** Q2820
contract: FIRS02 **lab code:** ACE
matrix: Solid **sample id:** Q2828-01 **client id:** POWDERMS

Percent Solids for Sample: 99.4 **Spiked ID:** Q2828-01MS **Percent Solids for Spike Sample:** 99.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	9300		7750		82.1	1892		P
Antimony	mg/Kg	79 - 114	12.2		4.95		32.9	22	N	P
Arsenic	mg/Kg	82 - 111	17.9		5.28		32.9	38	N	P
Barium	mg/Kg	83 - 113	117		123		8.2	-68		P
Beryllium	mg/Kg	83 - 113	3.99		0.95		8.2	37	N	P
Cadmium	mg/Kg	82 - 113	12.5		4.95		8.2	93		P
Calcium	mg/Kg	81 - 116	10400		8670		41.1	4260		P
Chromium	mg/Kg	85 - 113	62.4		60.9		16.4	9	N	P
Cobalt	mg/Kg	85 - 112	47.2		40.3		8.2	84		P
Copper	mg/Kg	81 - 117	80.6		76.1		12.3	37		P
Iron	mg/Kg	81 - 118	10200		12000		120	-1436		P
Lead	mg/Kg	81 - 112	110		71.4		41.1	95		P
Magnesium	mg/Kg	78 - 115	1470		1200		82.1	323		P
Manganese	mg/Kg	84 - 114	219		207		8.2	147		P
Nickel	mg/Kg	83 - 113	157		143		20.5	70		P
Potassium	mg/Kg	81 - 116	551		309		410	59	N	P
Selenium	mg/Kg	78 - 111	30.0		0.51	J	82.1	36	N	P
Silver	mg/Kg	82 - 112	3.22		1.58		3.1	53	N	P
Sodium	mg/Kg	83 - 118	1030		872		120	128		P
Thallium	mg/Kg	83 - 111	67.0		0.43	J	82.1	81	N	P
Vanadium	mg/Kg	82 - 114	56.1		31.8		12.3	197	N	P
Zinc	mg/Kg	82 - 113	244		240		8.2	46		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>First Environment, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q2820</u>
contract: <u>FIRS02</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2828-01</u>	client id: <u>POWDERMSD</u>
Percent Solids for Sample: 99.4	Spiked ID: Q2828-01MSD	Percent Solids for Spike Sample: 99.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	10600		7750		87.5	3219		P
Antimony	mg/Kg	79 - 114	10.5		4.95		35.0	16	N	P
Arsenic	mg/Kg	82 - 111	20.2		5.28		35.0	43	N	P
Barium	mg/Kg	83 - 113	120		123		8.7	-28		P
Beryllium	mg/Kg	83 - 113	4.64		0.95		8.7	43	N	P
Cadmium	mg/Kg	82 - 113	13.8		4.95		8.7	101		P
Calcium	mg/Kg	81 - 116	12400		8670		43.7	8468		P
Chromium	mg/Kg	85 - 113	76.4		60.9		17.5	88		P
Cobalt	mg/Kg	85 - 112	52.6		40.3		8.7	142		P
Copper	mg/Kg	81 - 117	84.2		76.1		13.1	61		P
Iron	mg/Kg	81 - 118	12600		12000		130	492		P
Lead	mg/Kg	81 - 112	116		71.4		43.7	102		P
Magnesium	mg/Kg	78 - 115	1710		1200		87.5	575		P
Manganese	mg/Kg	84 - 114	251		207		8.7	505		P
Nickel	mg/Kg	83 - 113	178		143		21.9	163		P
Potassium	mg/Kg	81 - 116	582		309		440	62	N	P
Selenium	mg/Kg	78 - 111	34.3		0.51	J	87.5	39	N	P
Silver	mg/Kg	82 - 112	3.45		1.58		3.3	57	N	P
Sodium	mg/Kg	83 - 118	1050		872		130	141		P
Thallium	mg/Kg	83 - 111	75.0		0.43	J	87.5	85		P
Vanadium	mg/Kg	82 - 114	41.4		31.8		13.1	73	N	P
Zinc	mg/Kg	82 - 113	250		240		8.7	115		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: First Environment, Inc. level: low sdg no.: Q2820
contract: FIRS02 lab code: ACE
matrix: Solid sample id: Q2831-01 client id: VNJ-238MS
Percent Solids for Sample: 93.1 Spiked ID: Q2831-01MS Percent Solids for Spike Sample: 93.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.29		0.037		0.26	97		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>First Environment, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q2820</u>
contract: <u>FIRS02</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2831-01</u>	client id: <u>VNJ-238MSD</u>
Percent Solids for Sample: 93.1	Spiked ID: Q2831-01MSD	Percent Solids for Spike Sample: 93.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.30		0.037		0.28	92		CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Matrix: Solid

Level: LOW

Client ID: POWDERA

Sample ID: Q2828-01

Spiked ID: Q2828-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	79 - 114	23.9		4.95		37.3	51	N	P
Arsenic	mg/Kg	82 - 111	23.2		5.28		37.3	48	N	P
Beryllium	mg/Kg	83 - 113	5.02		0.95		9.30	44	N	P
Chromium	mg/Kg	85 - 113	68.9		60.9		18.6	43	N	P
Potassium	mg/Kg	81 - 116	575		309		470	57	N	P
Selenium	mg/Kg	78 - 111	44.6		0.51	J	93.2	47	N	P
Silver	mg/Kg	82 - 112	3.46		1.58		3.50	54	N	P
Thallium	mg/Kg	83 - 111	80.5		0.43	J	93.2	86		P
Vanadium	mg/Kg	82 - 114	38.6		31.8		14.0	49	N	P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>First Environment, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2820</u>
Contract:	<u>FIRS02</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2828-01</u>	Client ID:	<u>POWDERDUP</u>
Percent Solids for Sample:	99.4	Duplicate ID	Q2828-01DUP	Percent Solids for Spike Sample:	99.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	7750		7150		8		P
Antimony	mg/Kg	20	4.95		4.87		2		P
Arsenic	mg/Kg	20	5.28		5.00		5		P
Barium	mg/Kg	20	123		112		9		P
Beryllium	mg/Kg	20	0.95		0.88		7		P
Cadmium	mg/Kg	20	4.95		4.56		8		P
Calcium	mg/Kg	20	8670		8040		8		P
Chromium	mg/Kg	20	60.9		55.8		9		P
Cobalt	mg/Kg	20	40.3		36.8		9		P
Copper	mg/Kg	20	76.1		71.4		6		P
Iron	mg/Kg	20	12000		11000		9		P
Lead	mg/Kg	20	71.4		66.2		8		P
Magnesium	mg/Kg	20	1200		1120		7		P
Manganese	mg/Kg	20	207		192		8		P
Nickel	mg/Kg	20	143		131		9		P
Potassium	mg/Kg	20	309		285		8		P
Selenium	mg/Kg	20	0.51	J	0.58	J	14		P
Silver	mg/Kg	20	1.58		1.47		7		P
Sodium	mg/Kg	20	872		806		8		P
Thallium	mg/Kg	20	0.43	J	0.64	J	40		P
Vanadium	mg/Kg	20	31.8		29.6		7		P
Zinc	mg/Kg	20	240		222		8		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>First Environment, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2820</u>
Contract:	<u>FIRS02</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2828-01MS</u>	Client ID:	<u>POWDERMSD</u>
Percent Solids for Sample:	99.4	Duplicate ID	Q2828-01MSD	Percent Solids for Spike Sample:	99.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	9300		10600		13		P
Antimony	mg/Kg	20	12.2		10.5		15		P
Arsenic	mg/Kg	20	17.9		20.2		12		P
Barium	mg/Kg	20	117		120		3		P
Beryllium	mg/Kg	20	3.99		4.64		15		P
Cadmium	mg/Kg	20	12.5		13.8		10		P
Calcium	mg/Kg	20	10400		12400		18		P
Chromium	mg/Kg	20	62.4		76.4		20		P
Cobalt	mg/Kg	20	47.2		52.6		11		P
Copper	mg/Kg	20	80.6		84.2		4		P
Iron	mg/Kg	20	10200		12600		21	*	P
Lead	mg/Kg	20	110		116		5		P
Magnesium	mg/Kg	20	1470		1710		15		P
Manganese	mg/Kg	20	219		251		14		P
Nickel	mg/Kg	20	157		178		13		P
Potassium	mg/Kg	20	551		582		5		P
Selenium	mg/Kg	20	30.0		34.3		13		P
Silver	mg/Kg	20	3.22		3.45		7		P
Sodium	mg/Kg	20	1030		1050		2		P
Thallium	mg/Kg	20	67.0		75.0		11		P
Vanadium	mg/Kg	20	56.1		41.4		30	*	P
Zinc	mg/Kg	20	244		250		2		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>First Environment, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2820</u>
Contract:	<u>FIRS02</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2831-01</u>	Client ID:	<u>VNJ-238DUP</u>
Percent Solids for Sample:	93.1	Duplicate ID	Q2831-01DUP	Percent Solids for Spike Sample:	93.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.037		0.040		8		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>First Environment, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2820</u>
Contract:	<u>FIRS02</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2831-01MS</u>	Client ID:	<u>VNJ-238MSD</u>
Percent Solids for Sample:	93.1	Duplicate ID	Q2831-01MSD	Percent Solids for Spike Sample:	93.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.29		0.30		2		CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169204BS Mercury	mg/Kg	0.27	0.23		85	80 - 124	CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>First Environment, Inc.</u>	SDG No.:	<u>Q2820</u>
Contract:	<u>FIRS02</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169211BS							
Aluminum	mg/Kg	100	98.1		98	74 - 119	P
Antimony	mg/Kg	40.0	40.7		102	79 - 114	P
Arsenic	mg/Kg	40.0	39.2		98	82 - 111	P
Barium	mg/Kg	10.0	9.27		93	83 - 113	P
Beryllium	mg/Kg	10.0	9.71		97	83 - 113	P
Cadmium	mg/Kg	10.0	9.41		94	82 - 113	P
Calcium	mg/Kg	50.0	49.9	J	100	81 - 116	P
Chromium	mg/Kg	20.0	20.3		102	85 - 113	P
Cobalt	mg/Kg	10.0	9.68		97	85 - 112	P
Copper	mg/Kg	15.0	15.4		103	81 - 117	P
Iron	mg/Kg	150	151		101	81 - 118	P
Lead	mg/Kg	50.0	47.4		95	81 - 112	P
Magnesium	mg/Kg	100	97.2	J	97	78 - 115	P
Manganese	mg/Kg	10.0	9.87		99	84 - 114	P
Nickel	mg/Kg	25.0	24.4		98	83 - 113	P
Potassium	mg/Kg	500	486		97	81 - 116	P
Selenium	mg/Kg	100	99.5		100	78 - 111	P
Silver	mg/Kg	3.8	3.78		100	82 - 112	P
Sodium	mg/Kg	150	138		92	83 - 118	P
Thallium	mg/Kg	100	97.7		98	83 - 111	P
Vanadium	mg/Kg	15.0	15.0		100	82 - 114	P
Zinc	mg/Kg	10.0	10.3		103	82 - 113	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

POWDERL

Lab Name: Alliance Contract: FIRS02
Lab Code: ACE Lb No.: lb136801 Lab Sample ID : Q2828-01L SDG No.: Q2820
Matrix (soil/water): Solid Level (low/med): LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ-ence		Q	M
		C		C				
Aluminum		7750		13300		71		P
Antimony		4.95		8.21	J	66		P
Arsenic		5.28		8.73		65		P
Barium		123		208		69		P
Beryllium		0.95		1.70		80		P
Cadmium		4.95		3.90		21		P
Calcium		8670		15400		77		P
Chromium		60.9		109		78		P
Cobalt		40.3		39.1		3		P
Copper		76.1		139		82		P
Iron		12000		20300		70		P
Lead		71.4		72.9		2		P
Magnesium		1200		2170		80		P
Manganese		207		372		80		P
Nickel		143		142		0		P
Potassium		309		468		51		P
Selenium		0.51	J	4.66	U	100.0		P
Silver		1.58		2.85		81		P
Sodium		872		1270		46		P
Thallium		0.43	J	1.28	J	199		P
Vanadium		31.8		56.3		77		P
Zinc		240		435		81		P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

VNJ-238L

Lab Name: Alliance

Contract: FIRS02

Lab Code: ACE

Lb No.: lb136782

Lab Sample ID : Q2831-01L

SDG No.: Q2820

Matrix (soil/water): Solid

Level (low/med): LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.037	0.070 U	100.0		CV



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METAL
PREPARATION &
ANALYICAL
SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB169204							
PB169204BL	PB169204BL	MB	SOLID	08/11/2025	0.51	35.0	100.00
PB169204BS	PB169204BS	LCS	SOLID	08/11/2025	0.51	35.0	100.00
Q2820-09	705R-S	SAM	SOLID	08/11/2025	0.54	35.0	55.80
Q2820-10	SOIL-DUP-2	SAM	SOLID	08/11/2025	0.51	35.0	48.40
Q2820-24	22M-S	SAM	SOLID	08/11/2025	0.51	35.0	89.00
Q2831-01DUP	VNJ-238DUP	DUP	SOLID	08/11/2025	0.50	35.0	93.10
Q2831-01MS	VNJ-238MS	MS	SOLID	08/11/2025	0.57	35.0	93.10
Q2831-01MSD	VNJ-238MSD	MSD	SOLID	08/11/2025	0.54	35.0	93.10

Metals

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SAMPLE PREPARATION SUMMARY

Client: First Environment, Inc.

SDG No.: Q2820

Contract: FIRS02

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB169211							
PB169211BL	PB169211BL	MB	SOLID	08/12/2025	2.00	100.0	100.00
PB169211BS	PB169211BS	LCS	SOLID	08/12/2025	2.00	100.0	100.00
Q2820-09	705R-S	SAM	SOLID	08/12/2025	2.25	100.0	55.80
Q2820-10	SOIL-DUP-2	SAM	SOLID	08/12/2025	2.17	100.0	48.40
Q2820-24	22M-S	SAM	SOLID	08/12/2025	2.24	100.0	89.00
Q2828-01DUP	POWDERDUP	DUP	SOLID	08/12/2025	2.33	100.0	99.40
Q2828-01MS	POWDERMS	MS	SOLID	08/12/2025	2.45	100.0	99.40
Q2828-01MSD	POWDERMSD	MSD	SOLID	08/12/2025	2.30	100.0	99.40

metals
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ANALYSIS RUN LOG

Client: First Environment, Inc.

Contract: FIRS02

Lab code: ACE

Sdg no.: Q2820

Instrument id number: _____

Method: _____

Run number: LB136782

Start date: 08/12/2025

End date: 08/12/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0919	HG
S0.2	S0.2	1	0924	HG
S2.5	S2.5	1	0926	HG
S5	S5	1	0929	HG
S7.5	S7.5	1	0939	HG
S10	S10	1	0953	HG
ICV08	ICV08	1	0956	HG
ICB08	ICB08	1	1001	HG
CCV22	CCV22	1	1003	HG
CCB22	CCB22	1	1008	HG
CRA	CRA	1	1034	HG
PB169204BL	PB169204BL	1	1046	HG
PB169204BS	PB169204BS	1	1050	HG
CCV23	CCV23	1	1111	HG
CCB23	CCB23	1	1121	HG
Q2820-09	705R-S	1	1129	HG
Q2820-10	SOIL-DUP-2	1	1131	HG
Q2820-24	22M-S	1	1134	HG
CCV24	CCV24	1	1151	HG
CCB24	CCB24	1	1154	HG
Q2831-01DUP	VNJ-238DUP	1	1208	HG
Q2831-01MS	VNJ-238MS	1	1210	HG
Q2831-01MSD	VNJ-238MSD	1	1212	HG
Q2831-01L	VNJ-238L	5	1215	HG
CCV25	CCV25	1	1232	HG
CCB25	CCB25	1	1237	HG
CCV26	CCV26	1	1255	HG
CCB26	CCB26	1	1300	HG

metals
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ANALYSIS RUN LOG

Client: First Environment, Inc.

Contract: FIRS02

Lab code: ACE

Sdg no.: Q2820

Instrument id number: _____

Method: _____

Run number: LB136801

Start date: 08/13/2025

End date: 08/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1156	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1200	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1204	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1208	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1212	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1217	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1221	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1233	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1237	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1241	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1245	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1258	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1303	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2828-01DUP	POWDERDUP	1	1312	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2828-01L	POWDERL	5	1316	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2828-01MS	POWDERMS	1	1320	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2828-01MSD	POWDERMSD	1	1325	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2828-01A	POWDERA	1	1330	Ag,As,Be,Cr,K,Sb,Se,Tl,V
CCV02	CCV02	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1346	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1433	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1437	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB169211BL	PB169211BL	1	1506	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB169211BS	PB169211BS	1	1519	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1523	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1527	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1614	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1619	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2820-09	705R-S	1	1623	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2820-10	SOIL-DUP-2	1	1627	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2820-24	22M-S	1	1631	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1705	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1709	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1746	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1750	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn