

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

A

B

C

D

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

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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			

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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			

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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			08/07/25			08/08/25
			Mercury	7471B		08/11/25	08/12/25	
			Metals ICP-TAL	6010D		08/12/25	08/13/25	
Q2820-10	SOIL-DUP-2	SOIL			08/07/25			08/08/25
			Mercury	7471B		08/11/25	08/12/25	
			Metals ICP-TAL	6010D		08/12/25	08/13/25	
Q2820-24	22M-S	SOIL			08/08/25			08/08/25
			Mercury	7471B		08/11/25	08/12/25	
			Metals ICP-TAL	6010D		08/12/25	08/13/25	