

LAB CHRONICLE

OrderID:	Q2413	OrderDate:	6/24/2025 3:05:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2413-01	TP-35	SOIL	Metals ICP-TAL	6010D	06/23/25	06/26/25	06/27/25	06/24/25
			Mercury	7471B		06/26/25	06/26/25	
Q2413-02	TP-34	SOIL	Metals ICP-TAL	6010D	06/23/25	06/26/25	06/27/25	06/24/25
			Mercury	7471B		06/26/25	06/26/25	
Q2413-03	TP-77	SOIL	Metals ICP-TAL	6010D	06/23/25	06/26/25	06/27/25	06/24/25
			Mercury	7471B		06/26/25	06/26/25	
Q2413-04	TP-74	SOIL	Metals ICP-TAL	6010D	06/23/25	06/26/25	06/27/25	06/24/25
			Mercury	7471B		06/26/25	06/26/25	
Q2413-05	TP-73	SOIL	Metals ICP-TAL	6010D	06/23/25	06/26/25	06/27/25	06/24/25
			Mercury	7471B		06/26/25	06/26/25	
Q2413-06	TP-72	SOIL	Mercury	7471B	06/24/25	06/26/25	06/26/25	06/24/25
			Metals ICP-TAL	6010D		06/26/25	06/27/25	

Hit Summary Sheet SW-846

SDG No.: Q2413 **Order ID:** Q2413
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-35								
Q2413-01	TP-35	SOIL	Aluminum	7550		0.80	4.73	mg/Kg
Q2413-01	TP-35	SOIL	Antimony	1.16	J	0.21	2.37	mg/Kg
Q2413-01	TP-35	SOIL	Arsenic	6.94		0.18	0.95	mg/Kg
Q2413-01	TP-35	SOIL	Barium	18.5		0.69	4.73	mg/Kg
Q2413-01	TP-35	SOIL	Beryllium	0.79		0.024	0.28	mg/Kg
Q2413-01	TP-35	SOIL	Calcium	239		10.5	94.6	mg/Kg
Q2413-01	TP-35	SOIL	Chromium	12.3		0.044	0.47	mg/Kg
Q2413-01	TP-35	SOIL	Cobalt	4.49		0.095	1.42	mg/Kg
Q2413-01	TP-35	SOIL	Copper	4.24		0.21	0.95	mg/Kg
Q2413-01	TP-35	SOIL	Iron	22300		3.78	4.73	mg/Kg
Q2413-01	TP-35	SOIL	Lead	10.6		0.12	0.57	mg/Kg
Q2413-01	TP-35	SOIL	Magnesium	503		11.4	94.6	mg/Kg
Q2413-01	TP-35	SOIL	Manganese	50.0		0.13	0.95	mg/Kg
Q2413-01	TP-35	SOIL	Mercury	0.023		0.0080	0.014	mg/Kg
Q2413-01	TP-35	SOIL	Nickel	7.64		0.12	1.89	mg/Kg
Q2413-01	TP-35	SOIL	Potassium	445		26.2	94.6	mg/Kg
Q2413-01	TP-35	SOIL	Selenium	7.10		0.25	0.95	mg/Kg
Q2413-01	TP-35	SOIL	Silver	0.38	J	0.11	0.47	mg/Kg
Q2413-01	TP-35	SOIL	Sodium	138		16.8	94.6	mg/Kg
Q2413-01	TP-35	SOIL	Vanadium	24.8		0.24	1.89	mg/Kg
Q2413-01	TP-35	SOIL	Zinc	21.3		0.10	1.89	mg/Kg
Client ID : TP-34								
Q2413-02	TP-34	SOIL	Aluminum	3590		0.82	4.90	mg/Kg
Q2413-02	TP-34	SOIL	Antimony	0.74	J	0.22	2.45	mg/Kg
Q2413-02	TP-34	SOIL	Arsenic	3.33		0.19	0.98	mg/Kg
Q2413-02	TP-34	SOIL	Barium	6.11		0.72	4.90	mg/Kg
Q2413-02	TP-34	SOIL	Beryllium	0.42		0.024	0.29	mg/Kg
Q2413-02	TP-34	SOIL	Calcium	119		10.9	97.9	mg/Kg
Q2413-02	TP-34	SOIL	Chromium	12.1		0.046	0.49	mg/Kg
Q2413-02	TP-34	SOIL	Cobalt	1.52		0.098	1.47	mg/Kg
Q2413-02	TP-34	SOIL	Copper	5.05		0.22	0.98	mg/Kg
Q2413-02	TP-34	SOIL	Iron	11500		3.91	4.90	mg/Kg
Q2413-02	TP-34	SOIL	Lead	9.44		0.13	0.59	mg/Kg
Q2413-02	TP-34	SOIL	Magnesium	170		11.8	97.9	mg/Kg
Q2413-02	TP-34	SOIL	Manganese	16.1		0.14	0.98	mg/Kg
Q2413-02	TP-34	SOIL	Mercury	0.024		0.0080	0.014	mg/Kg
Q2413-02	TP-34	SOIL	Nickel	3.07		0.13	1.96	mg/Kg

Hit Summary Sheet SW-846

SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-02	TP-34	SOIL	Potassium	155		27.1	97.9	mg/Kg
Q2413-02	TP-34	SOIL	Selenium	3.84		0.26	0.98	mg/Kg
Q2413-02	TP-34	SOIL	Silver	0.24	J	0.12	0.49	mg/Kg
Q2413-02	TP-34	SOIL	Sodium	84.3	J	17.4	97.9	mg/Kg
Q2413-02	TP-34	SOIL	Vanadium	19.4		0.25	1.96	mg/Kg
Q2413-02	TP-34	SOIL	Zinc	14.6		0.11	1.96	mg/Kg
Client ID : TP-77								
Q2413-03	TP-77	SOIL	Aluminum	8720		0.83	4.95	mg/Kg
Q2413-03	TP-77	SOIL	Antimony	1.49	J	0.22	2.48	mg/Kg
Q2413-03	TP-77	SOIL	Arsenic	11.0		0.19	0.99	mg/Kg
Q2413-03	TP-77	SOIL	Barium	18.0		0.72	4.95	mg/Kg
Q2413-03	TP-77	SOIL	Beryllium	1.03		0.025	0.30	mg/Kg
Q2413-03	TP-77	SOIL	Calcium	92.1	J	11.0	99.0	mg/Kg
Q2413-03	TP-77	SOIL	Chromium	13.1		0.047	0.50	mg/Kg
Q2413-03	TP-77	SOIL	Cobalt	2.30		0.099	1.49	mg/Kg
Q2413-03	TP-77	SOIL	Copper	0.68	J	0.22	0.99	mg/Kg
Q2413-03	TP-77	SOIL	Iron	30600		3.95	4.95	mg/Kg
Q2413-03	TP-77	SOIL	Lead	8.28		0.13	0.59	mg/Kg
Q2413-03	TP-77	SOIL	Magnesium	387		11.9	99.0	mg/Kg
Q2413-03	TP-77	SOIL	Manganese	26.4		0.14	0.99	mg/Kg
Q2413-03	TP-77	SOIL	Mercury	0.016		0.0080	0.014	mg/Kg
Q2413-03	TP-77	SOIL	Nickel	7.00		0.13	1.98	mg/Kg
Q2413-03	TP-77	SOIL	Potassium	889		27.4	99.0	mg/Kg
Q2413-03	TP-77	SOIL	Selenium	9.86		0.26	0.99	mg/Kg
Q2413-03	TP-77	SOIL	Silver	0.34	J	0.12	0.50	mg/Kg
Q2413-03	TP-77	SOIL	Sodium	267		17.6	99.0	mg/Kg
Q2413-03	TP-77	SOIL	Vanadium	26.8		0.25	1.98	mg/Kg
Q2413-03	TP-77	SOIL	Zinc	20.9		0.11	1.98	mg/Kg
Client ID : TP-74								
Q2413-04	TP-74	SOIL	Aluminum	7510		0.89	5.32	mg/Kg
Q2413-04	TP-74	SOIL	Antimony	1.16	J	0.23	2.66	mg/Kg
Q2413-04	TP-74	SOIL	Arsenic	9.31		0.20	1.06	mg/Kg
Q2413-04	TP-74	SOIL	Barium	35.5		0.78	5.32	mg/Kg
Q2413-04	TP-74	SOIL	Beryllium	0.82		0.027	0.32	mg/Kg
Q2413-04	TP-74	SOIL	Calcium	158		11.8	106	mg/Kg
Q2413-04	TP-74	SOIL	Chromium	9.18		0.050	0.53	mg/Kg
Q2413-04	TP-74	SOIL	Cobalt	6.13		0.11	1.60	mg/Kg
Q2413-04	TP-74	SOIL	Copper	1.04	J	0.23	1.06	mg/Kg
Q2413-04	TP-74	SOIL	Iron	24600		4.25	5.32	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2413 **Order ID:** Q2413
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-04	TP-74	SOIL	Lead	9.20		0.14	0.64	mg/Kg
Q2413-04	TP-74	SOIL	Magnesium	272		12.8	106	mg/Kg
Q2413-04	TP-74	SOIL	Manganese	76.2		0.15	1.06	mg/Kg
Q2413-04	TP-74	SOIL	Mercury	0.012	J	0.0090	0.015	mg/Kg
Q2413-04	TP-74	SOIL	Nickel	5.54		0.14	2.13	mg/Kg
Q2413-04	TP-74	SOIL	Potassium	560		29.5	106	mg/Kg
Q2413-04	TP-74	SOIL	Selenium	7.99		0.28	1.06	mg/Kg
Q2413-04	TP-74	SOIL	Silver	0.59		0.13	0.53	mg/Kg
Q2413-04	TP-74	SOIL	Sodium	428		18.9	106	mg/Kg
Q2413-04	TP-74	SOIL	Vanadium	20.5		0.27	2.13	mg/Kg
Q2413-04	TP-74	SOIL	Zinc	20.7		0.12	2.13	mg/Kg

Client ID : TP-73

Q2413-05	TP-73	SOIL	Aluminum	3080		1.00	5.95	mg/Kg
Q2413-05	TP-73	SOIL	Antimony	0.36	J	0.26	2.97	mg/Kg
Q2413-05	TP-73	SOIL	Arsenic	1.76		0.23	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Barium	35.7		0.87	5.95	mg/Kg
Q2413-05	TP-73	SOIL	Beryllium	0.28	J	0.030	0.36	mg/Kg
Q2413-05	TP-73	SOIL	Calcium	171		13.2	119	mg/Kg
Q2413-05	TP-73	SOIL	Chromium	3.79		0.056	0.60	mg/Kg
Q2413-05	TP-73	SOIL	Cobalt	0.36	J	0.12	1.78	mg/Kg
Q2413-05	TP-73	SOIL	Copper	2.91		0.26	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Iron	3620		4.75	5.95	mg/Kg
Q2413-05	TP-73	SOIL	Lead	9.44		0.16	0.71	mg/Kg
Q2413-05	TP-73	SOIL	Magnesium	104	J	14.3	119	mg/Kg
Q2413-05	TP-73	SOIL	Manganese	5.60		0.17	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Mercury	0.026		0.0090	0.016	mg/Kg
Q2413-05	TP-73	SOIL	Nickel	1.24	J	0.16	2.38	mg/Kg
Q2413-05	TP-73	SOIL	Potassium	170		33.0	119	mg/Kg
Q2413-05	TP-73	SOIL	Selenium	1.38		0.31	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Sodium	165		21.2	119	mg/Kg
Q2413-05	TP-73	SOIL	Vanadium	6.06		0.30	2.38	mg/Kg
Q2413-05	TP-73	SOIL	Zinc	5.43		0.13	2.38	mg/Kg

Client ID : TP-72

Q2413-06	TP-72	SOIL	Aluminum	4570		0.89	5.32	mg/Kg
Q2413-06	TP-72	SOIL	Antimony	0.79	J	0.23	2.66	mg/Kg
Q2413-06	TP-72	SOIL	Arsenic	6.60		0.20	1.06	mg/Kg
Q2413-06	TP-72	SOIL	Barium	22.4		0.78	5.32	mg/Kg
Q2413-06	TP-72	SOIL	Beryllium	0.57		0.027	0.32	mg/Kg
Q2413-06	TP-72	SOIL	Calcium	371		11.8	106	mg/Kg

Hit Summary Sheet
SW-846

SDG No.:	Q2413	Order ID:	Q2413
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-06	TP-72	SOIL	Chromium	7.90		0.050	0.53	mg/Kg
Q2413-06	TP-72	SOIL	Cobalt	2.69		0.11	1.60	mg/Kg
Q2413-06	TP-72	SOIL	Copper	4.46		0.23	1.06	mg/Kg
Q2413-06	TP-72	SOIL	Iron	16000		4.25	5.32	mg/Kg
Q2413-06	TP-72	SOIL	Lead	6.00		0.14	0.64	mg/Kg
Q2413-06	TP-72	SOIL	Magnesium	428		12.8	106	mg/Kg
Q2413-06	TP-72	SOIL	Manganese	37.9		0.15	1.06	mg/Kg
Q2413-06	TP-72	SOIL	Mercury	0.019		0.0080	0.014	mg/Kg
Q2413-06	TP-72	SOIL	Nickel	4.12		0.14	2.13	mg/Kg
Q2413-06	TP-72	SOIL	Potassium	570		29.5	106	mg/Kg
Q2413-06	TP-72	SOIL	Selenium	4.93		0.28	1.06	mg/Kg
Q2413-06	TP-72	SOIL	Silver	0.19	J	0.13	0.53	mg/Kg
Q2413-06	TP-72	SOIL	Sodium	225		18.9	106	mg/Kg
Q2413-06	TP-72	SOIL	Vanadium	20.0		0.27	2.13	mg/Kg
Q2413-06	TP-72	SOIL	Zinc	13.0		0.12	2.13	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7550		1	0.80	4.73	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-36-0	Antimony	1.16	JN	1	0.21	2.37	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-38-2	Arsenic	6.94		1	0.18	0.95	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-39-3	Barium	18.5		1	0.69	4.73	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-41-7	Beryllium	0.79		1	0.024	0.28	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.28	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-70-2	Calcium	239		1	10.5	94.6	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-47-3	Chromium	12.3		1	0.044	0.47	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-48-4	Cobalt	4.49		1	0.095	1.42	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-50-8	Copper	4.24		1	0.21	0.95	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7439-89-6	Iron	22300		1	3.78	4.73	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7439-92-1	Lead	10.6		1	0.12	0.57	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7439-95-4	Magnesium	503		1	11.4	94.6	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7439-96-5	Manganese	50.0		1	0.13	0.95	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7439-97-6	Mercury	0.023		1	0.0080	0.014	mg/Kg	06/26/25 12:15	06/26/25 15:03	7471B	
7440-02-0	Nickel	7.64		1	0.12	1.89	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-09-7	Potassium	445	N	1	26.2	94.6	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7782-49-2	Selenium	7.10		1	0.25	0.95	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-22-4	Silver	0.38	J	1	0.11	0.47	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-23-5	Sodium	138		1	16.8	94.6	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.89	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-62-2	Vanadium	24.8	N	1	0.24	1.89	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-66-6	Zinc	21.3	N	1	0.10	1.89	mg/Kg	06/26/25 10:20	06/27/25 18:28	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:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3590		1	0.82	4.90	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-36-0	Antimony	0.74	JN	1	0.22	2.45	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-38-2	Arsenic	3.33		1	0.19	0.98	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-39-3	Barium	6.11		1	0.72	4.90	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-41-7	Beryllium	0.42		1	0.024	0.29	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.29	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-70-2	Calcium	119		1	10.9	97.9	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-47-3	Chromium	12.1		1	0.046	0.49	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-48-4	Cobalt	1.52		1	0.098	1.47	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-50-8	Copper	5.05		1	0.22	0.98	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7439-89-6	Iron	11500		1	3.91	4.90	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7439-92-1	Lead	9.44		1	0.13	0.59	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7439-95-4	Magnesium	170		1	11.8	97.9	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7439-96-5	Manganese	16.1		1	0.14	0.98	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7439-97-6	Mercury	0.024		1	0.0080	0.014	mg/Kg	06/26/25 12:15	06/26/25 15:05	7471B	
7440-02-0	Nickel	3.07		1	0.13	1.96	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-09-7	Potassium	155	N	1	27.1	97.9	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7782-49-2	Selenium	3.84		1	0.26	0.98	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-22-4	Silver	0.24	J	1	0.12	0.49	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-23-5	Sodium	84.3	J	1	17.4	97.9	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	1.96	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-62-2	Vanadium	19.4	N	1	0.25	1.96	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-66-6	Zinc	14.6	N	1	0.11	1.96	mg/Kg	06/26/25 10:20	06/27/25 18:33	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:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8720		1	0.83	4.95	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-36-0	Antimony	1.49	JN	1	0.22	2.48	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-38-2	Arsenic	11.0		1	0.19	0.99	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-39-3	Barium	18.0		1	0.72	4.95	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-41-7	Beryllium	1.03		1	0.025	0.30	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-70-2	Calcium	92.1	J	1	11.0	99.0	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-47-3	Chromium	13.1		1	0.047	0.50	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-48-4	Cobalt	2.30		1	0.099	1.49	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-50-8	Copper	0.68	J	1	0.22	0.99	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7439-89-6	Iron	30600		1	3.95	4.95	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7439-92-1	Lead	8.28		1	0.13	0.59	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7439-95-4	Magnesium	387		1	11.9	99.0	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7439-96-5	Manganese	26.4		1	0.14	0.99	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7439-97-6	Mercury	0.016		1	0.0080	0.014	mg/Kg	06/26/25 12:15	06/26/25 15:07	7471B	
7440-02-0	Nickel	7.00		1	0.13	1.98	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-09-7	Potassium	889	N	1	27.4	99.0	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7782-49-2	Selenium	9.86		1	0.26	0.99	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-22-4	Silver	0.34	J	1	0.12	0.50	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-23-5	Sodium	267		1	17.6	99.0	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	1.98	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-62-2	Vanadium	26.8	N	1	0.25	1.98	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-66-6	Zinc	20.9	N	1	0.11	1.98	mg/Kg	06/26/25 10:20	06/27/25 18:37	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:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7510		1	0.89	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-36-0	Antimony	1.16	JN	1	0.23	2.66	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-38-2	Arsenic	9.31		1	0.20	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-39-3	Barium	35.5		1	0.78	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-41-7	Beryllium	0.82		1	0.027	0.32	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-70-2	Calcium	158		1	11.8	106	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-47-3	Chromium	9.18		1	0.050	0.53	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-48-4	Cobalt	6.13		1	0.11	1.60	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-50-8	Copper	1.04	J	1	0.23	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7439-89-6	Iron	24600		1	4.25	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7439-92-1	Lead	9.20		1	0.14	0.64	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7439-95-4	Magnesium	272		1	12.8	106	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7439-96-5	Manganese	76.2		1	0.15	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7439-97-6	Mercury	0.012	J	1	0.0090	0.015	mg/Kg	06/26/25 12:15	06/26/25 15:09	7471B	
7440-02-0	Nickel	5.54		1	0.14	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-09-7	Potassium	560	N	1	29.5	106	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7782-49-2	Selenium	7.99		1	0.28	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-22-4	Silver	0.59		1	0.13	0.53	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-23-5	Sodium	428		1	18.9	106	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-62-2	Vanadium	20.5	N	1	0.27	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-66-6	Zinc	20.7	N	1	0.12	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:50	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:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	77.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3080		1	1.00	5.95	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-36-0	Antimony	0.36	JN	1	0.26	2.97	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-38-2	Arsenic	1.76		1	0.23	1.19	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-39-3	Barium	35.7		1	0.87	5.95	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-41-7	Beryllium	0.28	J	1	0.030	0.36	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-43-9	Cadmium	0.029	U	1	0.029	0.36	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-70-2	Calcium	171		1	13.2	119	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-47-3	Chromium	3.79		1	0.056	0.60	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-48-4	Cobalt	0.36	J	1	0.12	1.78	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-50-8	Copper	2.91		1	0.26	1.19	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7439-89-6	Iron	3620		1	4.75	5.95	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7439-92-1	Lead	9.44		1	0.16	0.71	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7439-95-4	Magnesium	104	J	1	14.3	119	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7439-96-5	Manganese	5.60		1	0.17	1.19	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7439-97-6	Mercury	0.026		1	0.0090	0.016	mg/Kg	06/26/25 12:15	06/26/25 15:16	7471B	
7440-02-0	Nickel	1.24	J	1	0.16	2.38	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-09-7	Potassium	170	N	1	33.0	119	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7782-49-2	Selenium	1.38		1	0.31	1.19	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-22-4	Silver	0.14	U	1	0.14	0.60	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-23-5	Sodium	165		1	21.2	119	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-28-0	Thallium	0.27	U	1	0.27	2.38	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-62-2	Vanadium	6.06	N	1	0.30	2.38	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-66-6	Zinc	5.43	N	1	0.13	2.38	mg/Kg	06/26/25 10:20	06/27/25 18:54	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:	CDM Smith	Date Collected:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-72	SDG No.:	Q2413
Lab Sample ID:	Q2413-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4570		1	0.89	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-36-0	Antimony	0.79	JN	1	0.23	2.66	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-38-2	Arsenic	6.60		1	0.20	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-39-3	Barium	22.4		1	0.78	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-41-7	Beryllium	0.57		1	0.027	0.32	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-70-2	Calcium	371		1	11.8	106	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-47-3	Chromium	7.90		1	0.050	0.53	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-48-4	Cobalt	2.69		1	0.11	1.60	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-50-8	Copper	4.46		1	0.23	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7439-89-6	Iron	16000		1	4.25	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7439-92-1	Lead	6.00		1	0.14	0.64	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7439-95-4	Magnesium	428		1	12.8	106	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7439-96-5	Manganese	37.9		1	0.15	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7439-97-6	Mercury	0.019		1	0.0080	0.014	mg/Kg	06/26/25 12:15	06/26/25 15:18	7471B	
7440-02-0	Nickel	4.12		1	0.14	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-09-7	Potassium	570	N	1	29.5	106	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7782-49-2	Selenium	4.93		1	0.28	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-22-4	Silver	0.19	J	1	0.13	0.53	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-23-5	Sodium	225		1	18.9	106	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-62-2	Vanadium	20.0	N	1	0.27	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-66-6	Zinc	13.0	N	1	0.12	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:59	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.
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 OR = Over Range
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METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413
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	3.92	4.0	98	90 - 110	CV	06/26/2025	14:34	1b136298

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413
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
CCV23	Mercury	4.94	5.0	99	90 - 110	CV	06/26/2025	14:39	1b136298
CCV24	Mercury	4.79	5.0	96	90 - 110	CV	06/26/2025	15:12	1b136298
CCV25	Mercury	4.69	5.0	94	90 - 110	CV	06/26/2025	15:40	1b136298
CCV26	Mercury	4.76	5.0	95	90 - 110	CV	06/26/2025	16:20	1b136298

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413
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	7840	8000	98	90 - 110	P	06/27/2025	11:45	LB136319
	Antimony	4280	4000	107	90 - 110	P	06/27/2025	11:45	LB136319
	Arsenic	3910	4000	98	90 - 110	P	06/27/2025	11:45	LB136319
	Barium	8020	8000	100	90 - 110	P	06/27/2025	11:45	LB136319
	Beryllium	204	200	102	90 - 110	P	06/27/2025	11:45	LB136319
	Cadmium	1990	2000	100	90 - 110	P	06/27/2025	11:45	LB136319
	Calcium	19600	20000	98	90 - 110	P	06/27/2025	11:45	LB136319
	Chromium	757	800	95	90 - 110	P	06/27/2025	11:45	LB136319
	Cobalt	1970	2000	99	90 - 110	P	06/27/2025	11:45	LB136319
	Copper	1040	1000	104	90 - 110	P	06/27/2025	11:45	LB136319
	Iron	3850	4000	96	90 - 110	P	06/27/2025	11:45	LB136319
	Lead	3950	4000	99	90 - 110	P	06/27/2025	11:45	LB136319
	Magnesium	20200	20000	101	90 - 110	P	06/27/2025	11:45	LB136319
	Manganese	1990	2000	100	90 - 110	P	06/27/2025	11:45	LB136319
	Nickel	1950	2000	98	90 - 110	P	06/27/2025	11:45	LB136319
	Potassium	19500	20000	97	90 - 110	P	06/27/2025	11:45	LB136319
	Selenium	4050	4000	101	90 - 110	P	06/27/2025	11:45	LB136319
	Silver	941	1000	94	90 - 110	P	06/27/2025	11:45	LB136319
	Sodium	20500	20000	102	90 - 110	P	06/27/2025	11:45	LB136319
	Thallium	3950	4000	99	90 - 110	P	06/27/2025	11:45	LB136319
	Vanadium	2020	2000	101	90 - 110	P	06/27/2025	11:45	LB136319
	Zinc	2030	2000	101	90 - 110	P	06/27/2025	11:45	LB136319

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413
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	94.7	100	95	80 - 120	P	06/27/2025	12:03	LB136319
	Antimony	57.4	50.0	115	80 - 120	P	06/27/2025	12:03	LB136319
	Arsenic	16.7	20.0	84	80 - 120	P	06/27/2025	12:03	LB136319
	Barium	99.9	100	100	80 - 120	P	06/27/2025	12:03	LB136319
	Beryllium	6.43	6.0	107	80 - 120	P	06/27/2025	12:03	LB136319
	Cadmium	5.74	6.0	96	80 - 120	P	06/27/2025	12:03	LB136319
	Calcium	2080	2000	104	80 - 120	P	06/27/2025	12:03	LB136319
	Chromium	11.1	10.0	112	80 - 120	P	06/27/2025	12:03	LB136319
	Cobalt	30.3	30.0	101	80 - 120	P	06/27/2025	12:03	LB136319
	Copper	22.3	20.0	112	80 - 120	P	06/27/2025	12:03	LB136319
	Iron	111	100	111	80 - 120	P	06/27/2025	12:03	LB136319
	Lead	10.3	12.0	86	80 - 120	P	06/27/2025	12:03	LB136319
	Magnesium	2270	2000	114	80 - 120	P	06/27/2025	12:03	LB136319
	Manganese	22.8	20.0	114	80 - 120	P	06/27/2025	12:03	LB136319
	Nickel	39.8	40.0	100	80 - 120	P	06/27/2025	12:03	LB136319
	Potassium	1800	2000	90	80 - 120	P	06/27/2025	12:03	LB136319
	Selenium	19.5	20.0	98	80 - 120	P	06/27/2025	12:03	LB136319
	Silver	10.7	10.0	107	80 - 120	P	06/27/2025	12:03	LB136319
	Sodium	1900	2000	95	80 - 120	P	06/27/2025	12:03	LB136319
	Thallium	40.7	40.0	102	80 - 120	P	06/27/2025	12:03	LB136319
	Vanadium	47.8	40.0	119	80 - 120	P	06/27/2025	12:03	LB136319
	Zinc	34.2	40.0	85	80 - 120	P	06/27/2025	12:03	LB136319

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2413
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413
 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	9460	10000	95	90 - 110	P	06/27/2025	13:22	LB136319
	Antimony	5000	5000	100	90 - 110	P	06/27/2025	13:22	LB136319
	Arsenic	4830	5000	97	90 - 110	P	06/27/2025	13:22	LB136319
	Barium	10100	10000	101	90 - 110	P	06/27/2025	13:22	LB136319
	Beryllium	250	250	100	90 - 110	P	06/27/2025	13:22	LB136319
	Cadmium	2460	2500	99	90 - 110	P	06/27/2025	13:22	LB136319
	Calcium	24700	25000	99	90 - 110	P	06/27/2025	13:22	LB136319
	Chromium	1030	1000	103	90 - 110	P	06/27/2025	13:22	LB136319
	Cobalt	2470	2500	99	90 - 110	P	06/27/2025	13:22	LB136319
	Copper	1250	1250	100	90 - 110	P	06/27/2025	13:22	LB136319
	Iron	5370	5000	108	90 - 110	P	06/27/2025	13:22	LB136319
	Lead	4980	5000	100	90 - 110	P	06/27/2025	13:22	LB136319
	Magnesium	25700	25000	103	90 - 110	P	06/27/2025	13:22	LB136319
	Manganese	2520	2500	101	90 - 110	P	06/27/2025	13:22	LB136319
	Nickel	2510	2500	100	90 - 110	P	06/27/2025	13:22	LB136319
	Potassium	24900	25000	99	90 - 110	P	06/27/2025	13:22	LB136319
	Selenium	5040	5000	101	90 - 110	P	06/27/2025	13:22	LB136319
	Silver	1230	1250	99	90 - 110	P	06/27/2025	13:22	LB136319
	Sodium	25000	25000	100	90 - 110	P	06/27/2025	13:22	LB136319
	Thallium	5000	5000	100	90 - 110	P	06/27/2025	13:22	LB136319
	Vanadium	2480	2500	99	90 - 110	P	06/27/2025	13:22	LB136319
	Zinc	2510	2500	101	90 - 110	P	06/27/2025	13:22	LB136319
CCV02	Aluminum	9650	10000	96	90 - 110	P	06/27/2025	14:19	LB136319
	Antimony	5050	5000	101	90 - 110	P	06/27/2025	14:19	LB136319
	Arsenic	4900	5000	98	90 - 110	P	06/27/2025	14:19	LB136319
	Barium	10200	10000	102	90 - 110	P	06/27/2025	14:19	LB136319
	Beryllium	256	250	102	90 - 110	P	06/27/2025	14:19	LB136319
	Cadmium	2500	2500	100	90 - 110	P	06/27/2025	14:19	LB136319
	Calcium	25000	25000	100	90 - 110	P	06/27/2025	14:19	LB136319
	Chromium	1010	1000	101	90 - 110	P	06/27/2025	14:19	LB136319
	Cobalt	2510	2500	100	90 - 110	P	06/27/2025	14:19	LB136319
	Copper	1290	1250	103	90 - 110	P	06/27/2025	14:19	LB136319
	Iron	5250	5000	105	90 - 110	P	06/27/2025	14:19	LB136319
	Lead	5070	5000	101	90 - 110	P	06/27/2025	14:19	LB136319

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2413

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413

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	26100	25000	104	90 - 110	P	06/27/2025	14:19	LB136319
	Manganese	2540	2500	102	90 - 110	P	06/27/2025	14:19	LB136319
	Nickel	2530	2500	101	90 - 110	P	06/27/2025	14:19	LB136319
	Potassium	25600	25000	102	90 - 110	P	06/27/2025	14:19	LB136319
	Selenium	5100	5000	102	90 - 110	P	06/27/2025	14:19	LB136319
	Silver	1260	1250	101	90 - 110	P	06/27/2025	14:19	LB136319
	Sodium	25800	25000	103	90 - 110	P	06/27/2025	14:19	LB136319
	Thallium	5080	5000	102	90 - 110	P	06/27/2025	14:19	LB136319
	Vanadium	2500	2500	100	90 - 110	P	06/27/2025	14:19	LB136319
	Zinc	2550	2500	102	90 - 110	P	06/27/2025	14:19	LB136319
CCV03	Aluminum	9690	10000	97	90 - 110	P	06/27/2025	15:12	LB136319
	Antimony	5100	5000	102	90 - 110	P	06/27/2025	15:12	LB136319
	Arsenic	4930	5000	99	90 - 110	P	06/27/2025	15:12	LB136319
	Barium	10300	10000	103	90 - 110	P	06/27/2025	15:12	LB136319
	Beryllium	257	250	103	90 - 110	P	06/27/2025	15:12	LB136319
	Cadmium	2530	2500	101	90 - 110	P	06/27/2025	15:12	LB136319
	Calcium	25400	25000	102	90 - 110	P	06/27/2025	15:12	LB136319
	Chromium	1040	1000	104	90 - 110	P	06/27/2025	15:12	LB136319
	Cobalt	2540	2500	102	90 - 110	P	06/27/2025	15:12	LB136319
	Copper	1290	1250	103	90 - 110	P	06/27/2025	15:12	LB136319
	Iron	5340	5000	107	90 - 110	P	06/27/2025	15:12	LB136319
	Lead	5120	5000	102	90 - 110	P	06/27/2025	15:12	LB136319
	Magnesium	26300	25000	105	90 - 110	P	06/27/2025	15:12	LB136319
	Manganese	2560	2500	103	90 - 110	P	06/27/2025	15:12	LB136319
	Nickel	2560	2500	103	90 - 110	P	06/27/2025	15:12	LB136319
	Potassium	25800	25000	103	90 - 110	P	06/27/2025	15:12	LB136319
	Selenium	5170	5000	103	90 - 110	P	06/27/2025	15:12	LB136319
	Silver	1270	1250	102	90 - 110	P	06/27/2025	15:12	LB136319
	Sodium	26000	25000	104	90 - 110	P	06/27/2025	15:12	LB136319
	Thallium	5140	5000	103	90 - 110	P	06/27/2025	15:12	LB136319
	Vanadium	2550	2500	102	90 - 110	P	06/27/2025	15:12	LB136319
	Zinc	2560	2500	102	90 - 110	P	06/27/2025	15:12	LB136319
CCV04	Aluminum	10300	10000	103	90 - 110	P	06/27/2025	16:04	LB136319
	Antimony	5110	5000	102	90 - 110	P	06/27/2025	16:04	LB136319

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2413
Contract: CAMP02 Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413
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	4940	5000	99	90 - 110	P	06/27/2025	16:04	LB136319
	Barium	10300	10000	103	90 - 110	P	06/27/2025	16:04	LB136319
	Beryllium	256	250	102	90 - 110	P	06/27/2025	16:04	LB136319
	Cadmium	2530	2500	101	90 - 110	P	06/27/2025	16:04	LB136319
	Calcium	25400	25000	102	90 - 110	P	06/27/2025	16:04	LB136319
	Chromium	1010	1000	101	90 - 110	P	06/27/2025	16:04	LB136319
	Cobalt	2540	2500	102	90 - 110	P	06/27/2025	16:04	LB136319
	Copper	1290	1250	103	90 - 110	P	06/27/2025	16:04	LB136319
	Iron	5250	5000	105	90 - 110	P	06/27/2025	16:04	LB136319
	Lead	5120	5000	102	90 - 110	P	06/27/2025	16:04	LB136319
	Magnesium	26100	25000	105	90 - 110	P	06/27/2025	16:04	LB136319
	Manganese	2580	2500	103	90 - 110	P	06/27/2025	16:04	LB136319
	Nickel	2550	2500	102	90 - 110	P	06/27/2025	16:04	LB136319
	Potassium	25800	25000	103	90 - 110	P	06/27/2025	16:04	LB136319
	Selenium	5160	5000	103	90 - 110	P	06/27/2025	16:04	LB136319
	Silver	1260	1250	101	90 - 110	P	06/27/2025	16:04	LB136319
	Sodium	26000	25000	104	90 - 110	P	06/27/2025	16:04	LB136319
	Thallium	5130	5000	102	90 - 110	P	06/27/2025	16:04	LB136319
	Vanadium	2550	2500	102	90 - 110	P	06/27/2025	16:04	LB136319
	Zinc	2570	2500	103	90 - 110	P	06/27/2025	16:04	LB136319
CCV05	Aluminum	9590	10000	96	90 - 110	P	06/27/2025	16:56	LB136319
	Antimony	4950	5000	99	90 - 110	P	06/27/2025	16:56	LB136319
	Arsenic	4820	5000	96	90 - 110	P	06/27/2025	16:56	LB136319
	Barium	10200	10000	102	90 - 110	P	06/27/2025	16:56	LB136319
	Beryllium	255	250	102	90 - 110	P	06/27/2025	16:56	LB136319
	Cadmium	2460	2500	98	90 - 110	P	06/27/2025	16:56	LB136319
	Calcium	24800	25000	99	90 - 110	P	06/27/2025	16:56	LB136319
	Chromium	1040	1000	104	90 - 110	P	06/27/2025	16:56	LB136319
	Cobalt	2460	2500	98	90 - 110	P	06/27/2025	16:56	LB136319
	Copper	1280	1250	102	90 - 110	P	06/27/2025	16:56	LB136319
	Iron	5380	5000	108	90 - 110	P	06/27/2025	16:56	LB136319
	Lead	4960	5000	99	90 - 110	P	06/27/2025	16:56	LB136319
	Magnesium	25300	25000	101	90 - 110	P	06/27/2025	16:56	LB136319
	Manganese	2490	2500	100	90 - 110	P	06/27/2025	16:56	LB136319

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2413

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413

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	2500	2500	100	90 - 110	P	06/27/2025	16:56	LB136319
	Potassium	25700	25000	103	90 - 110	P	06/27/2025	16:56	LB136319
	Selenium	4980	5000	100	90 - 110	P	06/27/2025	16:56	LB136319
	Silver	1230	1250	98	90 - 110	P	06/27/2025	16:56	LB136319
	Sodium	25900	25000	104	90 - 110	P	06/27/2025	16:56	LB136319
	Thallium	4980	5000	100	90 - 110	P	06/27/2025	16:56	LB136319
	Vanadium	2470	2500	99	90 - 110	P	06/27/2025	16:56	LB136319
	Zinc	2480	2500	99	90 - 110	P	06/27/2025	16:56	LB136319
CCV06	Aluminum	9580	10000	96	90 - 110	P	06/27/2025	17:49	LB136319
	Antimony	5020	5000	100	90 - 110	P	06/27/2025	17:49	LB136319
	Arsenic	4880	5000	98	90 - 110	P	06/27/2025	17:49	LB136319
	Barium	10400	10000	104	90 - 110	P	06/27/2025	17:49	LB136319
	Beryllium	254	250	102	90 - 110	P	06/27/2025	17:49	LB136319
	Cadmium	2480	2500	99	90 - 110	P	06/27/2025	17:49	LB136319
	Calcium	24900	25000	100	90 - 110	P	06/27/2025	17:49	LB136319
	Chromium	1030	1000	103	90 - 110	P	06/27/2025	17:49	LB136319
	Cobalt	2480	2500	99	90 - 110	P	06/27/2025	17:49	LB136319
	Copper	1280	1250	102	90 - 110	P	06/27/2025	17:49	LB136319
	Iron	5430	5000	109	90 - 110	P	06/27/2025	17:49	LB136319
	Lead	5000	5000	100	90 - 110	P	06/27/2025	17:49	LB136319
	Magnesium	25800	25000	103	90 - 110	P	06/27/2025	17:49	LB136319
	Manganese	2540	2500	102	90 - 110	P	06/27/2025	17:49	LB136319
	Nickel	2530	2500	101	90 - 110	P	06/27/2025	17:49	LB136319
	Potassium	25700	25000	103	90 - 110	P	06/27/2025	17:49	LB136319
	Selenium	5030	5000	101	90 - 110	P	06/27/2025	17:49	LB136319
	Silver	1220	1250	97	90 - 110	P	06/27/2025	17:49	LB136319
	Sodium	26100	25000	105	90 - 110	P	06/27/2025	17:49	LB136319
	Thallium	5060	5000	101	90 - 110	P	06/27/2025	17:49	LB136319
	Vanadium	2520	2500	101	90 - 110	P	06/27/2025	17:49	LB136319
	Zinc	2560	2500	102	90 - 110	P	06/27/2025	17:49	LB136319
CCV07	Aluminum	9940	10000	99	90 - 110	P	06/27/2025	18:41	LB136319
	Antimony	5140	5000	103	90 - 110	P	06/27/2025	18:41	LB136319
	Arsenic	5050	5000	101	90 - 110	P	06/27/2025	18:41	LB136319
	Barium	10600	10000	106	90 - 110	P	06/27/2025	18:41	LB136319

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2413
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413
 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	260	250	104	90 - 110	P	06/27/2025	18:41	LB136319
	Cadmium	2550	2500	102	90 - 110	P	06/27/2025	18:41	LB136319
	Calcium	25300	25000	101	90 - 110	P	06/27/2025	18:41	LB136319
	Chromium	1030	1000	103	90 - 110	P	06/27/2025	18:41	LB136319
	Cobalt	2540	2500	102	90 - 110	P	06/27/2025	18:41	LB136319
	Copper	1310	1250	105	90 - 110	P	06/27/2025	18:41	LB136319
	Iron	5380	5000	108	90 - 110	P	06/27/2025	18:41	LB136319
	Lead	5120	5000	102	90 - 110	P	06/27/2025	18:41	LB136319
	Magnesium	26100	25000	104	90 - 110	P	06/27/2025	18:41	LB136319
	Manganese	2590	2500	103	90 - 110	P	06/27/2025	18:41	LB136319
	Nickel	2570	2500	103	90 - 110	P	06/27/2025	18:41	LB136319
	Potassium	26400	25000	106	90 - 110	P	06/27/2025	18:41	LB136319
	Selenium	5140	5000	103	90 - 110	P	06/27/2025	18:41	LB136319
	Silver	1240	1250	99	90 - 110	P	06/27/2025	18:41	LB136319
	Sodium	26800	25000	107	90 - 110	P	06/27/2025	18:41	LB136319
	Thallium	5190	5000	104	90 - 110	P	06/27/2025	18:41	LB136319
	Vanadium	2610	2500	104	90 - 110	P	06/27/2025	18:41	LB136319
	Zinc	2630	2500	105	90 - 110	P	06/27/2025	18:41	LB136319
CCV08	Aluminum	9930	10000	99	90 - 110	P	06/27/2025	19:29	LB136319
	Antimony	5100	5000	102	90 - 110	P	06/27/2025	19:29	LB136319
	Arsenic	5000	5000	100	90 - 110	P	06/27/2025	19:29	LB136319
	Barium	10500	10000	105	90 - 110	P	06/27/2025	19:29	LB136319
	Beryllium	256	250	102	90 - 110	P	06/27/2025	19:29	LB136319
	Cadmium	2520	2500	101	90 - 110	P	06/27/2025	19:29	LB136319
	Calcium	25100	25000	100	90 - 110	P	06/27/2025	19:29	LB136319
	Chromium	1010	1000	100	90 - 110	P	06/27/2025	19:29	LB136319
	Cobalt	2520	2500	101	90 - 110	P	06/27/2025	19:29	LB136319
	Copper	1290	1250	104	90 - 110	P	06/27/2025	19:29	LB136319
	Iron	5200	5000	104	90 - 110	P	06/27/2025	19:29	LB136319
	Lead	5040	5000	101	90 - 110	P	06/27/2025	19:29	LB136319
	Magnesium	25600	25000	102	90 - 110	P	06/27/2025	19:29	LB136319
	Manganese	2530	2500	101	90 - 110	P	06/27/2025	19:29	LB136319
	Nickel	2530	2500	101	90 - 110	P	06/27/2025	19:29	LB136319
	Potassium	26300	25000	105	90 - 110	P	06/27/2025	19:29	LB136319



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Client:	<u>CDM Smith</u>	SDG No.:	<u>Q2413</u>	
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.: <u>Q2413</u> SAS No.: <u>Q2413</u>
Initial Calibration Source:	<u>EPA</u>			
Continuing Calibration Source:	Inorganic Ventures			

Sample ID	Analyte	Result	True Value	%	Acceptance	M	Analysis Date	Analysis Time	Run Number
		ug/L		Recovery	Window (%R)				
CCV08	Selenium	5060	5000	101	90 - 110	P	06/27/2025	19:29	LB136319
	Silver	1220	1250	98	90 - 110	P	06/27/2025	19:29	LB136319
	Sodium	26500	25000	106	90 - 110	P	06/27/2025	19:29	LB136319
	Thallium	5130	5000	103	90 - 110	P	06/27/2025	19:29	LB136319
	Vanadium	2550	2500	102	90 - 110	P	06/27/2025	19:29	LB136319
	Zinc	2610	2500	104	90 - 110	P	06/27/2025	19:29	LB136319

Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413
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	0.21	0.2	105	70 - 130	CV	06/26/2025	14:44	lb136298
CRI01	Aluminum	92.6	100	93	65 - 135	P	06/27/2025	12:58	LB136319
	Antimony	56.3	50.0	113	65 - 135	P	06/27/2025	12:58	LB136319
	Arsenic	16.9	20.0	84	65 - 135	P	06/27/2025	12:58	LB136319
	Barium	106	100	106	65 - 135	P	06/27/2025	12:58	LB136319
	Beryllium	6.39	6.0	106	65 - 135	P	06/27/2025	12:58	LB136319
	Cadmium	5.61	6.0	94	65 - 135	P	06/27/2025	12:58	LB136319
	Calcium	2090	2000	104	65 - 135	P	06/27/2025	12:58	LB136319
	Chromium	12.6	10.0	126	65 - 135	P	06/27/2025	12:58	LB136319
	Cobalt	30.4	30.0	101	65 - 135	P	06/27/2025	12:58	LB136319
	Copper	23.3	20.0	116	65 - 135	P	06/27/2025	12:58	LB136319
	Iron	109	100	108	65 - 135	P	06/27/2025	12:58	LB136319
	Lead	12.2	12.0	101	65 - 135	P	06/27/2025	12:58	LB136319
	Magnesium	2330	2000	117	65 - 135	P	06/27/2025	12:58	LB136319
	Manganese	22.7	20.0	114	65 - 135	P	06/27/2025	12:58	LB136319
	Nickel	40.0	40.0	100	65 - 135	P	06/27/2025	12:58	LB136319
	Potassium	1640	2000	82	65 - 135	P	06/27/2025	12:58	LB136319
	Selenium	20.1	20.0	100	65 - 135	P	06/27/2025	12:58	LB136319
	Silver	11.2	10.0	112	65 - 135	P	06/27/2025	12:58	LB136319
	Sodium	1900	2000	95	65 - 135	P	06/27/2025	12:58	LB136319
	Thallium	40.8	40.0	102	65 - 135	P	06/27/2025	12:58	LB136319
	Vanadium	39.3	40.0	98	65 - 135	P	06/27/2025	12:58	LB136319
	Zinc	34.2	40.0	86	65 - 135	P	06/27/2025	12:58	LB136319



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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	CDM Smith				SDG No.:	Q2413			
Contract:	CAMP02	Lab Code:	CHEM	Case No.:	Q2413	SAS No.:	Q2413		
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB08	Mercury	0.076	+/-0.2	U	0.20	CV	06/26/2025	14:37	lb136298

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB23	Mercury	0.076	+/-0.2	U	0.20	CV	06/26/2025	14:41	lb136298
CCB24	Mercury	0.076	+/-0.2	U	0.20	CV	06/26/2025	15:14	lb136298
CCB25	Mercury	0.076	+/-0.2	U	0.20	CV	06/26/2025	15:43	lb136298
CCB26	Mercury	0.076	+/-0.2	U	0.20	CV	06/26/2025	16:22	lb136298

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith SDG No.: Q2413
Contract: CAMP02 Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	06/27/2025	12:54	LB136319
	Antimony	6.76	+/-25	U	50.0	P	06/27/2025	12:54	LB136319
	Arsenic	5.12	+/-10	U	20.0	P	06/27/2025	12:54	LB136319
	Barium	14.6	+/-50	U	100	P	06/27/2025	12:54	LB136319
	Beryllium	0.56	+/-3	U	6.00	P	06/27/2025	12:54	LB136319
	Cadmium	0.50	+/-3	U	6.00	P	06/27/2025	12:54	LB136319
	Calcium	234	+/-1000	U	2000	P	06/27/2025	12:54	LB136319
	Chromium	2.12	+/-5	U	10.0	P	06/27/2025	12:54	LB136319
	Cobalt	2.26	+/-15	U	30.0	P	06/27/2025	12:54	LB136319
	Copper	4.60	+/-10	U	20.0	P	06/27/2025	12:54	LB136319
	Iron	23.4	+/-50	U	100	P	06/27/2025	12:54	LB136319
	Lead	2.30	+/-6	U	12.0	P	06/27/2025	12:54	LB136319
	Magnesium	244	+/-1000	U	2000	P	06/27/2025	12:54	LB136319
	Manganese	5.94	+/-10	U	20.0	P	06/27/2025	12:54	LB136319
	Nickel	3.06	+/-20	U	40.0	P	06/27/2025	12:54	LB136319
	Potassium	918	+/-1000	U	2000	P	06/27/2025	12:54	LB136319
	Selenium	9.64	+/-10	U	20.0	P	06/27/2025	12:54	LB136319
	Silver	1.62	+/-5	U	10.0	P	06/27/2025	12:54	LB136319
	Sodium	868	+/-1000	U	2000	P	06/27/2025	12:54	LB136319
	Thallium	4.38	+/-20	U	40.0	P	06/27/2025	12:54	LB136319
	Vanadium	6.26	+/-20	U	40.0	P	06/27/2025	12:54	LB136319
	Zinc	3.50	+/-20	U	40.0	P	06/27/2025	12:54	LB136319

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2413							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2413	SAS No.: Q2413						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	06/27/2025	13:31	LB136319
	Antimony	6.76	+/-25	U	50.0	P	06/27/2025	13:31	LB136319
	Arsenic	5.12	+/-10	U	20.0	P	06/27/2025	13:31	LB136319
	Barium	14.6	+/-50	U	100	P	06/27/2025	13:31	LB136319
	Beryllium	0.56	+/-3	U	6.00	P	06/27/2025	13:31	LB136319
	Cadmium	0.50	+/-3	U	6.00	P	06/27/2025	13:31	LB136319
	Calcium	234	+/-1000	U	2000	P	06/27/2025	13:31	LB136319
	Chromium	2.12	+/-5	U	10.0	P	06/27/2025	13:31	LB136319
	Cobalt	2.26	+/-15	U	30.0	P	06/27/2025	13:31	LB136319
	Copper	4.60	+/-10	U	20.0	P	06/27/2025	13:31	LB136319
	Iron	23.4	+/-50	U	100	P	06/27/2025	13:31	LB136319
	Lead	2.30	+/-6	U	12.0	P	06/27/2025	13:31	LB136319
	Magnesium	244	+/-1000	U	2000	P	06/27/2025	13:31	LB136319
	Manganese	5.94	+/-10	U	20.0	P	06/27/2025	13:31	LB136319
	Nickel	3.06	+/-20	U	40.0	P	06/27/2025	13:31	LB136319
	Potassium	918	+/-1000	U	2000	P	06/27/2025	13:31	LB136319
	Selenium	9.64	+/-10	U	20.0	P	06/27/2025	13:31	LB136319
	Silver	1.62	+/-5	U	10.0	P	06/27/2025	13:31	LB136319
	Sodium	868	+/-1000	U	2000	P	06/27/2025	13:31	LB136319
	Thallium	4.38	+/-20	U	40.0	P	06/27/2025	13:31	LB136319
	Vanadium	6.26	+/-20	U	40.0	P	06/27/2025	13:31	LB136319
	Zinc	3.50	+/-20	U	40.0	P	06/27/2025	13:31	LB136319
CCB02	Aluminum	11.3	+/-50	U	100	P	06/27/2025	14:24	LB136319
	Antimony	6.76	+/-25	U	50.0	P	06/27/2025	14:24	LB136319
	Arsenic	5.12	+/-10	U	20.0	P	06/27/2025	14:24	LB136319
	Barium	14.6	+/-50	U	100	P	06/27/2025	14:24	LB136319
	Beryllium	0.56	+/-3	U	6.00	P	06/27/2025	14:24	LB136319
	Cadmium	0.50	+/-3	U	6.00	P	06/27/2025	14:24	LB136319
	Calcium	234	+/-1000	U	2000	P	06/27/2025	14:24	LB136319
	Chromium	2.12	+/-5	U	10.0	P	06/27/2025	14:24	LB136319
	Cobalt	2.26	+/-15	U	30.0	P	06/27/2025	14:24	LB136319
	Copper	4.60	+/-10	U	20.0	P	06/27/2025	14:24	LB136319
	Iron	23.4	+/-50	U	100	P	06/27/2025	14:24	LB136319
	Lead	2.30	+/-6	U	12.0	P	06/27/2025	14:24	LB136319
	Magnesium	244	+/-1000	U	2000	P	06/27/2025	14:24	LB136319
	Manganese	5.94	+/-10	U	20.0	P	06/27/2025	14:24	LB136319
	Nickel	3.06	+/-20	U	40.0	P	06/27/2025	14:24	LB136319
	Potassium	918	+/-1000	U	2000	P	06/27/2025	14:24	LB136319
	Selenium	9.64	+/-10	U	20.0	P	06/27/2025	14:24	LB136319

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2413							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2413	SAS No.: Q2413						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	06/27/2025	14:24	LB136319
	Sodium	868	+/-1000	U	2000	P	06/27/2025	14:24	LB136319
	Thallium	4.38	+/-20	U	40.0	P	06/27/2025	14:24	LB136319
	Vanadium	6.26	+/-20	U	40.0	P	06/27/2025	14:24	LB136319
	Zinc	3.50	+/-20	U	40.0	P	06/27/2025	14:24	LB136319
CCB03	Aluminum	11.3	+/-50	U	100	P	06/27/2025	15:16	LB136319
	Antimony	6.76	+/-25	U	50.0	P	06/27/2025	15:16	LB136319
	Arsenic	5.12	+/-10	U	20.0	P	06/27/2025	15:16	LB136319
	Barium	14.6	+/-50	U	100	P	06/27/2025	15:16	LB136319
	Beryllium	0.56	+/-3	U	6.00	P	06/27/2025	15:16	LB136319
	Cadmium	0.50	+/-3	U	6.00	P	06/27/2025	15:16	LB136319
	Calcium	234	+/-1000	U	2000	P	06/27/2025	15:16	LB136319
	Chromium	2.12	+/-5	U	10.0	P	06/27/2025	15:16	LB136319
	Cobalt	2.26	+/-15	U	30.0	P	06/27/2025	15:16	LB136319
	Copper	4.60	+/-10	U	20.0	P	06/27/2025	15:16	LB136319
	Iron	23.4	+/-50	U	100	P	06/27/2025	15:16	LB136319
	Lead	2.30	+/-6	U	12.0	P	06/27/2025	15:16	LB136319
	Magnesium	244	+/-1000	U	2000	P	06/27/2025	15:16	LB136319
	Manganese	5.94	+/-10	U	20.0	P	06/27/2025	15:16	LB136319
	Nickel	3.06	+/-20	U	40.0	P	06/27/2025	15:16	LB136319
	Potassium	918	+/-1000	U	2000	P	06/27/2025	15:16	LB136319
	Selenium	9.64	+/-10	U	20.0	P	06/27/2025	15:16	LB136319
	Silver	1.62	+/-5	U	10.0	P	06/27/2025	15:16	LB136319
	Sodium	868	+/-1000	U	2000	P	06/27/2025	15:16	LB136319
	Thallium	4.38	+/-20	U	40.0	P	06/27/2025	15:16	LB136319
	Vanadium	6.26	+/-20	U	40.0	P	06/27/2025	15:16	LB136319
	Zinc	3.50	+/-20	U	40.0	P	06/27/2025	15:16	LB136319
CCB04	Aluminum	11.3	+/-50	U	100	P	06/27/2025	16:09	LB136319
	Antimony	6.76	+/-25	U	50.0	P	06/27/2025	16:09	LB136319
	Arsenic	5.12	+/-10	U	20.0	P	06/27/2025	16:09	LB136319
	Barium	14.6	+/-50	U	100	P	06/27/2025	16:09	LB136319
	Beryllium	0.56	+/-3	U	6.00	P	06/27/2025	16:09	LB136319
	Cadmium	0.50	+/-3	U	6.00	P	06/27/2025	16:09	LB136319
	Calcium	234	+/-1000	U	2000	P	06/27/2025	16:09	LB136319
	Chromium	2.12	+/-5	U	10.0	P	06/27/2025	16:09	LB136319
	Cobalt	2.26	+/-15	U	30.0	P	06/27/2025	16:09	LB136319
	Copper	4.60	+/-10	U	20.0	P	06/27/2025	16:09	LB136319
	Iron	23.4	+/-50	U	100	P	06/27/2025	16:09	LB136319
	Lead	2.30	+/-6	U	12.0	P	06/27/2025	16:09	LB136319



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Client:	CDM Smith		SDG No.:	Q2413	
Contract:	CAMP02	Lab Code:	CHEM	Case No.:	Q2413
				SAS No.:	Q2413

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	06/27/2025	16:09	LB136319
	Manganese	5.94	+/-10	U	20.0	P	06/27/2025	16:09	LB136319
	Nickel	3.06	+/-20	U	40.0	P	06/27/2025	16:09	LB136319
	Potassium	918	+/-1000	U	2000	P	06/27/2025	16:09	LB136319
	Selenium	9.64	+/-10	U	20.0	P	06/27/2025	16:09	LB136319
	Silver	1.62	+/-5	U	10.0	P	06/27/2025	16:09	LB136319
	Sodium	868	+/-1000	U	2000	P	06/27/2025	16:09	LB136319
	Thallium	4.38	+/-20	U	40.0	P	06/27/2025	16:09	LB136319
	Vanadium	6.26	+/-20	U	40.0	P	06/27/2025	16:09	LB136319
	Zinc	3.50	+/-20	U	40.0	P	06/27/2025	16:09	LB136319
CCB05	Aluminum	11.3	+/-50	U	100	P	06/27/2025	17:01	LB136319
	Antimony	6.76	+/-25	U	50.0	P	06/27/2025	17:01	LB136319
	Arsenic	5.12	+/-10	U	20.0	P	06/27/2025	17:01	LB136319
	Barium	14.6	+/-50	U	100	P	06/27/2025	17:01	LB136319
	Beryllium	0.56	+/-3	U	6.00	P	06/27/2025	17:01	LB136319
	Cadmium	0.50	+/-3	U	6.00	P	06/27/2025	17:01	LB136319
	Calcium	234	+/-1000	U	2000	P	06/27/2025	17:01	LB136319
	Chromium	2.12	+/-5	U	10.0	P	06/27/2025	17:01	LB136319
	Cobalt	2.26	+/-15	U	30.0	P	06/27/2025	17:01	LB136319
	Copper	4.60	+/-10	U	20.0	P	06/27/2025	17:01	LB136319
	Iron	23.4	+/-50	U	100	P	06/27/2025	17:01	LB136319
	Lead	2.30	+/-6	U	12.0	P	06/27/2025	17:01	LB136319
	Magnesium	244	+/-1000	U	2000	P	06/27/2025	17:01	LB136319
	Manganese	5.94	+/-10	U	20.0	P	06/27/2025	17:01	LB136319
	Nickel	3.06	+/-20	U	40.0	P	06/27/2025	17:01	LB136319
	Potassium	918	+/-1000	U	2000	P	06/27/2025	17:01	LB136319
	Selenium	9.64	+/-10	U	20.0	P	06/27/2025	17:01	LB136319
	Silver	1.62	+/-5	U	10.0	P	06/27/2025	17:01	LB136319
	Sodium	868	+/-1000	U	2000	P	06/27/2025	17:01	LB136319
	Thallium	4.38	+/-20	U	40.0	P	06/27/2025	17:01	LB136319
Vanadium	6.26	+/-20	U	40.0	P	06/27/2025	17:01	LB136319	
Zinc	3.50	+/-20	U	40.0	P	06/27/2025	17:01	LB136319	
CCB06	Aluminum	11.3	+/-50	U	100	P	06/27/2025	17:53	LB136319
	Antimony	6.76	+/-25	U	50.0	P	06/27/2025	17:53	LB136319
	Arsenic	5.12	+/-10	U	20.0	P	06/27/2025	17:53	LB136319
	Barium	14.6	+/-50	U	100	P	06/27/2025	17:53	LB136319
	Beryllium	0.56	+/-3	U	6.00	P	06/27/2025	17:53	LB136319
	Cadmium	0.50	+/-3	U	6.00	P	06/27/2025	17:53	LB136319
	Calcium	234	+/-1000	U	2000	P	06/27/2025	17:53	LB136319

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2413							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2413	SAS No.: Q2413						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	06/27/2025	17:53	LB136319
	Cobalt	2.26	+/-15	U	30.0	P	06/27/2025	17:53	LB136319
	Copper	4.60	+/-10	U	20.0	P	06/27/2025	17:53	LB136319
	Iron	23.4	+/-50	U	100	P	06/27/2025	17:53	LB136319
	Lead	2.30	+/-6	U	12.0	P	06/27/2025	17:53	LB136319
	Magnesium	244	+/-1000	U	2000	P	06/27/2025	17:53	LB136319
	Manganese	5.94	+/-10	U	20.0	P	06/27/2025	17:53	LB136319
	Nickel	3.06	+/-20	U	40.0	P	06/27/2025	17:53	LB136319
	Potassium	918	+/-1000	U	2000	P	06/27/2025	17:53	LB136319
	Selenium	9.64	+/-10	U	20.0	P	06/27/2025	17:53	LB136319
	Silver	1.62	+/-5	U	10.0	P	06/27/2025	17:53	LB136319
	Sodium	868	+/-1000	U	2000	P	06/27/2025	17:53	LB136319
	Thallium	4.38	+/-20	U	40.0	P	06/27/2025	17:53	LB136319
	Vanadium	6.26	+/-20	U	40.0	P	06/27/2025	17:53	LB136319
	Zinc	3.50	+/-20	U	40.0	P	06/27/2025	17:53	LB136319
CCB07	Aluminum	11.3	+/-50	U	100	P	06/27/2025	18:46	LB136319
	Antimony	6.76	+/-25	U	50.0	P	06/27/2025	18:46	LB136319
	Arsenic	5.12	+/-10	U	20.0	P	06/27/2025	18:46	LB136319
	Barium	14.6	+/-50	U	100	P	06/27/2025	18:46	LB136319
	Beryllium	0.56	+/-3	U	6.00	P	06/27/2025	18:46	LB136319
	Cadmium	0.50	+/-3	U	6.00	P	06/27/2025	18:46	LB136319
	Calcium	234	+/-1000	U	2000	P	06/27/2025	18:46	LB136319
	Chromium	2.12	+/-5	U	10.0	P	06/27/2025	18:46	LB136319
	Cobalt	2.26	+/-15	U	30.0	P	06/27/2025	18:46	LB136319
	Copper	4.60	+/-10	U	20.0	P	06/27/2025	18:46	LB136319
	Iron	23.4	+/-50	U	100	P	06/27/2025	18:46	LB136319
	Lead	2.30	+/-6	U	12.0	P	06/27/2025	18:46	LB136319
	Magnesium	244	+/-1000	U	2000	P	06/27/2025	18:46	LB136319
	Manganese	5.94	+/-10	U	20.0	P	06/27/2025	18:46	LB136319
	Nickel	3.06	+/-20	U	40.0	P	06/27/2025	18:46	LB136319
	Potassium	918	+/-1000	U	2000	P	06/27/2025	18:46	LB136319
	Selenium	9.64	+/-10	U	20.0	P	06/27/2025	18:46	LB136319
	Silver	1.62	+/-5	U	10.0	P	06/27/2025	18:46	LB136319
	Sodium	868	+/-1000	U	2000	P	06/27/2025	18:46	LB136319
	Thallium	4.38	+/-20	U	40.0	P	06/27/2025	18:46	LB136319
	Vanadium	6.26	+/-20	U	40.0	P	06/27/2025	18:46	LB136319
	Zinc	3.50	+/-20	U	40.0	P	06/27/2025	18:46	LB136319
CCB08	Aluminum	11.3	+/-50	U	100	P	06/27/2025	19:33	LB136319
	Antimony	6.76	+/-25	U	50.0	P	06/27/2025	19:33	LB136319

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	20.0	P	06/27/2025	19:33	LB136319
	Barium	14.6	+/-50	U	100	P	06/27/2025	19:33	LB136319
	Beryllium	0.56	+/-3	U	6.00	P	06/27/2025	19:33	LB136319
	Cadmium	0.50	+/-3	U	6.00	P	06/27/2025	19:33	LB136319
	Calcium	234	+/-1000	U	2000	P	06/27/2025	19:33	LB136319
	Chromium	2.12	+/-5	U	10.0	P	06/27/2025	19:33	LB136319
	Cobalt	2.26	+/-15	U	30.0	P	06/27/2025	19:33	LB136319
	Copper	4.60	+/-10	U	20.0	P	06/27/2025	19:33	LB136319
	Iron	23.4	+/-50	U	100	P	06/27/2025	19:33	LB136319
	Lead	2.30	+/-6	U	12.0	P	06/27/2025	19:33	LB136319
	Magnesium	244	+/-1000	U	2000	P	06/27/2025	19:33	LB136319
	Manganese	5.94	+/-10	U	20.0	P	06/27/2025	19:33	LB136319
	Nickel	3.06	+/-20	U	40.0	P	06/27/2025	19:33	LB136319
	Potassium	918	+/-1000	U	2000	P	06/27/2025	19:33	LB136319
	Selenium	9.64	+/-10	U	20.0	P	06/27/2025	19:33	LB136319
	Silver	1.62	+/-5	U	10.0	P	06/27/2025	19:33	LB136319
	Sodium	868	+/-1000	U	2000	P	06/27/2025	19:33	LB136319
	Thallium	4.38	+/-20	U	40.0	P	06/27/2025	19:33	LB136319
	Vanadium	6.26	+/-20	U	40.0	P	06/27/2025	19:33	LB136319
	Zinc	3.50	+/-20	U	40.0	P	06/27/2025	19:33	LB136319

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2413

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168633BL		SOLID		Batch Number:	PB168633		Prep Date:	06/26/2025	
	Mercury	0.0080	<0.013	U	0.013	CV	06/26/2025	14:51	lb136298

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2413

Instrument: P5

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168628BL	SOLID			Batch Number:	PB168628		Prep Date:	06/26/2025	
	Aluminum	0.84	<2.5	U	5.00	P	06/27/2025	17:45	LB136319
	Antimony	0.22	<1.25	U	2.50	P	06/27/2025	17:45	LB136319
	Arsenic	0.19	<0.5	U	1.00	P	06/27/2025	17:45	LB136319
	Barium	0.73	<2.5	U	5.00	P	06/27/2025	17:45	LB136319
	Beryllium	0.025	<0.15	U	0.30	P	06/27/2025	17:45	LB136319
	Cadmium	0.024	<0.15	U	0.30	P	06/27/2025	17:45	LB136319
	Calcium	11.1	<50	U	100	P	06/27/2025	17:45	LB136319
	Chromium	0.047	<0.25	U	0.50	P	06/27/2025	17:45	LB136319
	Cobalt	0.10	<0.75	U	1.50	P	06/27/2025	17:45	LB136319
	Copper	0.22	<0.5	U	1.00	P	06/27/2025	17:45	LB136319
	Iron	3.99	<2.5	U	5.00	P	06/27/2025	17:45	LB136319
	Lead	0.13	<0.3	U	0.60	P	06/27/2025	17:45	LB136319
	Magnesium	12.0	<50	U	100	P	06/27/2025	17:45	LB136319
	Manganese	0.14	<0.5	U	1.00	P	06/27/2025	17:45	LB136319
	Nickel	0.13	<1	U	2.00	P	06/27/2025	17:45	LB136319
	Potassium	27.7	<50	U	100	P	06/27/2025	17:45	LB136319
	Selenium	0.26	<0.5	U	1.00	P	06/27/2025	17:45	LB136319
	Silver	0.12	<0.25	U	0.50	P	06/27/2025	17:45	LB136319
	Sodium	17.8	<50	U	100	P	06/27/2025	17:45	LB136319
	Thallium	0.23	<1	U	2.00	P	06/27/2025	17:45	LB136319
	Vanadium	0.28	<1	J	2.00	P	06/27/2025	17:45	LB136319
	Zinc	0.11	<1	U	2.00	P	06/27/2025	17:45	LB136319

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413
ICS Source: EPA **Instrument ID:** P5

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	250000	96	216000	294000	06/27/2025	13:04	LB136319
	Antimony	21.2			-50	50	06/27/2025	13:04	LB136319
	Arsenic	1.80			-20	20	06/27/2025	13:04	LB136319
	Barium	5.72	6.0	95	-94	106	06/27/2025	13:04	LB136319
	Beryllium	1.16			-6	6	06/27/2025	13:04	LB136319
	Cadmium	-1.37	1.0	137	-5	7	06/27/2025	13:04	LB136319
	Calcium	237000	240000	99	208000	282000	06/27/2025	13:04	LB136319
	Chromium	49.2	52.0	95	42	62	06/27/2025	13:04	LB136319
	Cobalt	29.0			-30	30	06/27/2025	13:04	LB136319
	Copper	-5.04	2.0	252	-18	22	06/27/2025	13:04	LB136319
	Iron	101000	100000	101	85600	116500	06/27/2025	13:04	LB136319
	Lead	-0.17			-12	12	06/27/2025	13:04	LB136319
	Magnesium	257000	260000	99	216000	294000	06/27/2025	13:04	LB136319
	Manganese	5.41	7.0	77	-13	27	06/27/2025	13:04	LB136319
	Nickel	6.13	2.0	306	-38	42	06/27/2025	13:04	LB136319
	Potassium	10.4			0	0	06/27/2025	13:04	LB136319
	Selenium	4.19			-20	20	06/27/2025	13:04	LB136319
	Silver	4.58			-10	10	06/27/2025	13:04	LB136319
	Sodium	137			0	0	06/27/2025	13:04	LB136319
	Thallium	17.3			-40	40	06/27/2025	13:04	LB136319
	Vanadium	5.71			-40	40	06/27/2025	13:04	LB136319
	Zinc	3.40			-40	40	06/27/2025	13:04	LB136319
ICSAB01	Aluminum	236000	250000	94	209000	285000	06/27/2025	13:09	LB136319
	Antimony	633	620	102	525	711	06/27/2025	13:09	LB136319
	Arsenic	100	100	100	88.4	120	06/27/2025	13:09	LB136319
	Barium	518	540	96	437	637	06/27/2025	13:09	LB136319
	Beryllium	504	500	101	420	570	06/27/2025	13:09	LB136319
	Cadmium	994	970	102	826	1120	06/27/2025	13:09	LB136319
	Calcium	233000	230000	101	199000	271000	06/27/2025	13:09	LB136319
	Chromium	521	540	96	460	624	06/27/2025	13:09	LB136319
	Cobalt	519	480	108	404	548	06/27/2025	13:09	LB136319
	Copper	479	510	94	434	588	06/27/2025	13:09	LB136319
	Iron	99300	99000	100	84400	114500	06/27/2025	13:09	LB136319
	Lead	47.5	49.0	97	37	61	06/27/2025	13:09	LB136319
	Magnesium	252000	250000	101	210000	286000	06/27/2025	13:09	LB136319
	Manganese	502	510	98	430	584	06/27/2025	13:09	LB136319
	Nickel	975	950	103	810	1100	06/27/2025	13:09	LB136319
	Potassium	6.48			0	0	06/27/2025	13:09	LB136319
	Selenium	55.8	46.0	121	26	66	06/27/2025	13:09	LB136319
	Silver	195	200	98	170	232	06/27/2025	13:09	LB136319
	Sodium	135			0	0	06/27/2025	13:09	LB136319
	Thallium	102	110	93	68	148	06/27/2025	13:09	LB136319

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>CDM Smith</u>	SDG No.: <u>Q2413</u>
Contract: <u>CAMP02</u> Lab Code: <u>CHEM</u>	Case No.: <u>Q2413</u> SAS No.: <u>Q2413</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P5</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
ICSAB01	Vanadium	487	490	99	417	565	06/27/2025	13:09	LB136319
	Zinc	1030	950	108	809	1095	06/27/2025	13:09	LB136319



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>CDM Smith</u>	level:	<u>low</u>	sdg no.:	<u>Q2413</u>
contract:	<u>CAMP02</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2413</u>
matrix:	<u>Solid</u>	sample id:	<u>Q2425-03</u>	client id:	<u>COMP-3MS</u>
Percent Solids for Sample:	82.6	Spiked ID:	Q2425-03MS	Percent Solids for Spike Sample:	82.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	13400		11400		110	1972		P
Antimony	mg/Kg	75 - 125	17.5		1.43	J	42.1	38	N	P
Arsenic	mg/Kg	75 - 125	49.4		7.98		42.1	98		P
Barium	mg/Kg	75 - 125	57.9		46.5		10.5	109		P
Beryllium	mg/Kg	75 - 125	9.94		0.86		10.5	86		P
Cadmium	mg/Kg	75 - 125	10.2		0.31	U	10.5	97		P
Calcium	mg/Kg	75 - 125	1310		1210		52.6	188		P
Chromium	mg/Kg	75 - 125	37.4		17.8		21.1	93		P
Cobalt	mg/Kg	75 - 125	18.7		7.69		10.5	104		P
Copper	mg/Kg	75 - 125	22.2		7.82		15.8	91		P
Iron	mg/Kg	75 - 125	21600		19100		160	1569		P
Lead	mg/Kg	75 - 125	65.8		15.8		52.6	95		P
Magnesium	mg/Kg	75 - 125	1890		1610		110	271		P
Manganese	mg/Kg	75 - 125	178		180		10.5	-15		P
Mercury	mg/Kg	80 - 120	0.42		0.10		0.3	107		CV
Nickel	mg/Kg	75 - 125	39.7		12.2		26.3	104		P
Potassium	mg/Kg	75 - 125	1400		760		530	122		P
Selenium	mg/Kg	75 - 125	86.2		5.97		110	76		P
Silver	mg/Kg	75 - 125	3.45		0.18	J	3.9	83		P
Sodium	mg/Kg	75 - 125	266		132		160	84		P
Thallium	mg/Kg	75 - 125	101		2.03	U	110	96		P
Vanadium	mg/Kg	75 - 125	46.5		29.2		15.8	109		P
Zinc	mg/Kg	75 - 125	39.8		27.8		10.5	114		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>CDM Smith</u>	level:	<u>low</u>	sdg no.:	<u>Q2413</u>
contract:	<u>CAMP02</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2413</u>
matrix:	<u>Solid</u>	sample id:	<u>Q2425-03</u>	client id:	<u>COMP-3MSD</u>
Percent Solids for Sample:	82.6	Spiked ID:	Q2425-03MSD	Percent Solids for Spike Sample:	82.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	14800		11400		110	3258		P
Antimony	mg/Kg	75 - 125	18.4		1.43	J	42.5	40	N	P
Arsenic	mg/Kg	75 - 125	52.6		7.98		42.5	105		P
Barium	mg/Kg	75 - 125	58.6		46.5		10.6	114		P
Beryllium	mg/Kg	75 - 125	10.7		0.86		10.6	93		P
Cadmium	mg/Kg	75 - 125	10.7		0.31	U	10.6	101		P
Calcium	mg/Kg	75 - 125	1410		1210		53.1	373		P
Chromium	mg/Kg	75 - 125	41.1		17.8		21.2	110		P
Cobalt	mg/Kg	75 - 125	19.5		7.69		10.6	112		P
Copper	mg/Kg	75 - 125	24.8		7.82		15.9	106		P
Iron	mg/Kg	75 - 125	24100		19100		160	3127		P
Lead	mg/Kg	75 - 125	71.0		15.8		53.1	104		P
Magnesium	mg/Kg	75 - 125	2020		1610		110	385		P
Manganese	mg/Kg	75 - 125	162		180		10.6	-166		P
Mercury	mg/Kg	80 - 120	0.45		0.10		0.32	109		CV
Nickel	mg/Kg	75 - 125	42.0		12.2		26.5	112		P
Potassium	mg/Kg	75 - 125	1560		760		530	150	N	P
Selenium	mg/Kg	75 - 125	92.8		5.97		110	82		P
Silver	mg/Kg	75 - 125	3.51		0.18	J	4.0	84		P
Sodium	mg/Kg	75 - 125	285		132		160	96		P
Thallium	mg/Kg	75 - 125	107		2.03	U	110	101		P
Vanadium	mg/Kg	75 - 125	50.3		29.2		15.9	132	N	P
Zinc	mg/Kg	75 - 125	43.5		27.8		10.6	148	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: CDM Smith	SDG No.: Q2413	
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2413 SAS No.: Q2413
Matrix: Solid	Level: LOW	Client ID: COMP-3A
Sample ID: Q2425-03	Spiked ID: Q2425-03A	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	32.2		1.43	J	40.7	76		P
Potassium	mg/Kg	75 - 125	1210		760		510	87		P
Vanadium	mg/Kg	75 - 125	39.9		29.2		15.3	70	N	P
Zinc	mg/Kg	75 - 125	35.2		27.8		10.2	73	N	P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413
Matrix: Solid **Sample ID:** Q2425-03 **Client ID:** COMP-3DUP
Percent Solids for Sample: 82.6 **Duplicate ID** Q2425-03DUP **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	11400		12300		8		P
Antimony	mg/Kg	20	1.43	J	1.72	J	18		P
Arsenic	mg/Kg	20	7.98		8.70		9		P
Barium	mg/Kg	20	46.5		47.7		3		P
Beryllium	mg/Kg	20	0.86		0.89		3		P
Cadmium	mg/Kg	20	0.31	U	0.34	U			P
Calcium	mg/Kg	20	1210		1300		7		P
Chromium	mg/Kg	20	17.8		19.7		10		P
Cobalt	mg/Kg	20	7.69		7.96		3		P
Copper	mg/Kg	20	7.82		8.61		10		P
Iron	mg/Kg	20	19100		21200		10		P
Lead	mg/Kg	20	15.8		17.1		8		P
Magnesium	mg/Kg	20	1610		1720		7		P
Manganese	mg/Kg	20	180		162		11		P
Mercury	mg/Kg	20	0.10		0.10		4		CV
Nickel	mg/Kg	20	12.2		12.7		4		P
Potassium	mg/Kg	20	760		833		9		P
Selenium	mg/Kg	20	5.97		6.45		8		P
Silver	mg/Kg	20	0.18	J	0.17	J	2		P
Sodium	mg/Kg	20	132		138		4		P
Thallium	mg/Kg	20	2.03	U	2.25	U			P
Vanadium	mg/Kg	20	29.2		32.3		10		P
Zinc	mg/Kg	20	27.8		29.9		7		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413
Matrix: Solid **Sample ID:** Q2425-03MS **Client ID:** COMP-3MSD
Percent Solids for Sample: 82.6 **Duplicate ID** Q2425-03MSD **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	13400		14800		10		P
Antimony	mg/Kg	20	17.5		18.4		5		P
Arsenic	mg/Kg	20	49.4		52.6		6		P
Barium	mg/Kg	20	57.9		58.6		1		P
Beryllium	mg/Kg	20	9.94		10.7		7		P
Cadmium	mg/Kg	20	10.2		10.7		5		P
Calcium	mg/Kg	20	1310		1410		7		P
Chromium	mg/Kg	20	37.4		41.1		9		P
Cobalt	mg/Kg	20	18.7		19.5		4		P
Copper	mg/Kg	20	22.2		24.8		11		P
Iron	mg/Kg	20	21600		24100		11		P
Lead	mg/Kg	20	65.8		71.0		8		P
Magnesium	mg/Kg	20	1890		2020		7		P
Manganese	mg/Kg	20	178		162		9		P
Mercury	mg/Kg	20	0.42		0.45		6		CV
Nickel	mg/Kg	20	39.7		42.0		6		P
Potassium	mg/Kg	20	1400		1560		11		P
Selenium	mg/Kg	20	86.2		92.8		7		P
Silver	mg/Kg	20	3.45		3.51		2		P
Sodium	mg/Kg	20	266		285		7		P
Thallium	mg/Kg	20	101		107		6		P
Vanadium	mg/Kg	20	46.5		50.3		8		P
Zinc	mg/Kg	20	39.8		43.5		9		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168628BS							
Aluminum	mg/Kg	100	92.8	J	93	80 - 120	P
Antimony	mg/Kg	40.0	39.5		99	80 - 120	P
Arsenic	mg/Kg	40.0	34.6		86	80 - 120	P
Barium	mg/Kg	10.0	10.1		101	80 - 120	P
Beryllium	mg/Kg	10.0	10.1		101	80 - 120	P
Cadmium	mg/Kg	10.0	9.23		92	80 - 120	P
Calcium	mg/Kg	50.0	51.5		103	80 - 120	P
Chromium	mg/Kg	20.0	18.4		92	80 - 120	P
Cobalt	mg/Kg	10.0	9.42		94	80 - 120	P
Copper	mg/Kg	15.0	15.8		105	80 - 120	P
Iron	mg/Kg	150	153		102	80 - 120	P
Lead	mg/Kg	50.0	46.6		93	80 - 120	P
Magnesium	mg/Kg	100	101		101	80 - 120	P
Manganese	mg/Kg	10.0	10.1		100	80 - 120	P
Nickel	mg/Kg	25.0	23.6		94	80 - 120	P
Potassium	mg/Kg	500	441		88	80 - 120	P
Selenium	mg/Kg	100	96.9		97	80 - 120	P
Silver	mg/Kg	3.8	3.45		91	80 - 120	P
Sodium	mg/Kg	150	147		98	80 - 120	P
Thallium	mg/Kg	100	98.4		98	80 - 120	P
Vanadium	mg/Kg	15.0	14.8		99	80 - 120	P
Zinc	mg/Kg	10.0	9.81		98	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2413 **SAS No.:** Q2413

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168633BS Mercury	mg/Kg	0.26	0.25		95	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

COMP-3L

Lab Name: Chemtech Consulting Group

Contract: CAMP02

Lab Code: CHEM Lb No.: lb136319 Lab Sample ID : Q2425-03L SDG No.: Q2413

Matrix (soil/water): Solid Level (low/med): LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
Aluminum	11400		13700		20		P
Antimony	1.43	J	1.96	J	37		P
Arsenic	7.98		8.15		2		P
Barium	46.5		57.5		24		P
Beryllium	0.86		1.06	J	23		P
Cadmium	0.31	U	1.53	U			P
Calcium	1210		1510		25		P
Chromium	17.8		21.3		20		P
Cobalt	7.69		7.88		3		P
Copper	7.82		9.83		26		P
Iron	19100		23800		25		P
Lead	15.8		16.6		5		P
Magnesium	1610		2030		26		P
Manganese	180		223		24		P
Mercury	0.10		0.090		9		CV
Nickel	12.2		12.0		2		P
Potassium	760		763		0		P
Selenium	5.97		6.78		14		P
Silver	0.18	J	2.54	U	100.0		P
Sodium	132		159	J	20		P
Thallium	2.03	U	10.2	U			P
Vanadium	29.2		34.5		18		P
Zinc	27.8		32.2		16		P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2413

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2413

SAS No.: Q2413

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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: CDM Smith

SDG No.: Q2413

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2413

SAS No.: Q2413

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: CDM Smith

SDG No.: Q2413

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2413

SAS No.: Q2413

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: CDM Smith

SDG No.: Q2413

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2413

SAS No.: Q2413

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

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2413

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2413

SAS No.: Q2413

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:	<u>CDM Smith</u>	SDG No.:	<u>Q2413</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2413</u>
		SAS No.:	<u>Q2413</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168628							
PB168628BL	PB168628BL	MB	SOLID	06/26/2025	2.00	100.0	100.00
PB168628BS	PB168628BS	LCS	SOLID	06/26/2025	2.00	100.0	100.00
Q2413-01	TP-35	SAM	SOLID	06/26/2025	2.38	100.0	88.80
Q2413-02	TP-34	SAM	SOLID	06/26/2025	2.22	100.0	92.00
Q2413-03	TP-77	SAM	SOLID	06/26/2025	2.21	100.0	91.40
Q2413-04	TP-74	SAM	SOLID	06/26/2025	2.10	100.0	89.50
Q2413-05	TP-73	SAM	SOLID	06/26/2025	2.18	100.0	77.10
Q2413-06	TP-72	SAM	SOLID	06/26/2025	2.16	100.0	87.00
Q2425-03DUP	COMP-3DUP	DUP	SOLID	06/26/2025	2.15	100.0	82.60
Q2425-03MS	COMP-3MS	MS	SOLID	06/26/2025	2.30	100.0	82.60
Q2425-03MSD	COMP-3MSD	MSD	SOLID	06/26/2025	2.28	100.0	82.60

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2413
Contract: CAMP02 **Lab Code:** CHEM **Method:** _____
Case No.: Q2413 **SAS No.:** Q2413

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168633							
PB168633BL	PB168633BL	MB	SOLID	06/26/2025	0.52	35.0	100.00
PB168633BS	PB168633BS	LCS	SOLID	06/26/2025	0.54	35.0	100.00
Q2413-01	TP-35	SAM	SOLID	06/26/2025	0.57	35.0	88.80
Q2413-02	TP-34	SAM	SOLID	06/26/2025	0.53	35.0	92.00
Q2413-03	TP-77	SAM	SOLID	06/26/2025	0.56	35.0	91.40
Q2413-04	TP-74	SAM	SOLID	06/26/2025	0.51	35.0	89.50
Q2413-05	TP-73	SAM	SOLID	06/26/2025	0.57	35.0	77.10
Q2413-06	TP-72	SAM	SOLID	06/26/2025	0.58	35.0	87.00
Q2425-03DUP	COMP-3DUP	DUP	SOLID	06/26/2025	0.53	35.0	82.60
Q2425-03MS	COMP-3MS	MS	SOLID	06/26/2025	0.56	35.0	82.60
Q2425-03MSD	COMP-3MSD	MSD	SOLID	06/26/2025	0.53	35.0	82.60

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2413 **Sas no.:** Q2413 **Sdg no.:** Q2413

Instrument id number: **Method:** **Run number:** lb136298

Start date: 06/26/2025 **End date:** 06/26/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1411	HG
S0.2	S0.2	1	1413	HG
S2.5	S2.5	1	1415	HG
S5	S5	1	1418	HG
S7.5	S7.5	1	1420	HG
S10	S10	1	1431	HG
ICV08	ICV08	1	1434	HG
ICB08	ICB08	1	1437	HG
CCV23	CCV23	1	1439	HG
CCB23	CCB23	1	1441	HG
CRA	CRA	1	1444	HG
PB168633BL	PB168633BL	1	1451	HG
PB168633BS	PB168633BS	1	1458	HG
Q2413-01	TP-35	1	1503	HG
Q2413-02	TP-34	1	1505	HG
Q2413-03	TP-77	1	1507	HG
Q2413-04	TP-74	1	1509	HG
CCV24	CCV24	1	1512	HG
CCB24	CCB24	1	1514	HG
Q2413-05	TP-73	1	1516	HG
Q2413-06	TP-72	1	1518	HG
CCV25	CCV25	1	1540	HG
CCB25	CCB25	1	1543	HG
Q2425-03DUP	COMP-3DUP	1	1547	HG
Q2425-03MS	COMP-3MS	1	1554	HG
Q2425-03MSD	COMP-3MSD	1	1556	HG
Q2425-03L	COMP-3L	5	1559	HG
CCV26	CCV26	1	1620	HG
CCB26	CCB26	1	1622	HG

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2413 **Sas no.:** Q2413 **Sdg no.:** Q2413

Instrument id number: **Method:** **Run number:** LB136319

Start date: 06/27/2025 **End date:** 06/27/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1111	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	1116	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	1120	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	1124	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	1129	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	1133	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	1145	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	1203	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	1254	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	1258	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	1304	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	1309	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	1322	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	1331	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1419	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	1424	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	1512	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	1516	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	1604	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	1609	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	1656	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	1701	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168628BL	PB168628BL	1	1745	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	1749	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	1753	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168628BS	PB168628BS	1	1758	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2413-01	TP-35	1	1828	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2413-02	TP-34	1	1833	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2413-03	TP-77	1	1837	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	1841	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	1846	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2413-04	TP-74	1	1850	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2413-05	TP-73	1	1854	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2413-06	TP-72	1	1859	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2425-03DUP	COMP-3DUP	1	1908	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2425-03L	COMP-3L	5	1912	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2425-03MS	COMP-3MS	1	1916	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2425-03MSD	COMP-3MSD	1	1920	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2425-03A	COMP-3A	1	1925	K,Sb,V,Zn
CCV08	CCV08	1	1929	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1933	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn