

LAB CHRONICLE

OrderID:	Q2436	OrderDate:	6/26/2025 3:41:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	TP-70	SOIL			06/25/25			06/26/25
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-02	TP-69	SOIL			06/25/25			06/26/25
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-03	TP-85	SOIL			06/25/25			06/26/25
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-04	TP-86	SOIL			06/25/25			06/26/25
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-05	TP-84	SOIL			06/25/25			06/26/25
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-06	TP-83	SOIL			06/25/25			06/26/25
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-07	TP-87	SOIL			06/26/25			06/26/25
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-08	TP-100	SOIL			06/26/25			06/26/25
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-09	TP-99	SOIL			06/26/25			06/26/25

LAB CHRONICLE

Q2436-10	TP-82	SOIL	Mercury	7471B		06/27/25	06/30/25	06/26/25	06/26/25
			Metals ICP-TAL	6010D		06/27/25	07/01/25		
			Mercury	7471B		06/27/25	06/30/25		
			Metals ICP-TAL	6010D		06/27/25	07/01/25		

Hit Summary Sheet
SW-846

SDG No.: Q2436 **Order ID:** Q2436
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-70								
Q2436-01	TP-70	SOIL	Aluminum	8840		0.89	5.32	mg/Kg
Q2436-01	TP-70	SOIL	Arsenic	4.89		0.20	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Barium	67.4		0.78	5.32	mg/Kg
Q2436-01	TP-70	SOIL	Beryllium	0.56		0.027	0.32	mg/Kg
Q2436-01	TP-70	SOIL	Calcium	318		11.8	106	mg/Kg
Q2436-01	TP-70	SOIL	Chromium	7.09		0.050	0.53	mg/Kg
Q2436-01	TP-70	SOIL	Cobalt	2.07		0.11	1.60	mg/Kg
Q2436-01	TP-70	SOIL	Copper	1.84		0.23	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Iron	12400		4.24	5.32	mg/Kg
Q2436-01	TP-70	SOIL	Lead	5.95		0.14	0.64	mg/Kg
Q2436-01	TP-70	SOIL	Magnesium	203		12.8	106	mg/Kg
Q2436-01	TP-70	SOIL	Manganese	70.4		0.15	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Nickel	3.08		0.14	2.13	mg/Kg
Q2436-01	TP-70	SOIL	Potassium	207		29.5	106	mg/Kg
Q2436-01	TP-70	SOIL	Selenium	2.88		0.28	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Silver	0.56		0.13	0.53	mg/Kg
Q2436-01	TP-70	SOIL	Sodium	235		18.9	106	mg/Kg
Q2436-01	TP-70	SOIL	Vanadium	19.7		0.27	2.13	mg/Kg
Q2436-01	TP-70	SOIL	Zinc	8.13		0.25	2.13	mg/Kg
Client ID : TP-69								
Q2436-02	TP-69	SOIL	Aluminum	3120		0.83	4.92	mg/Kg
Q2436-02	TP-69	SOIL	Arsenic	5.74		0.19	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Barium	5.63		0.72	4.92	mg/Kg
Q2436-02	TP-69	SOIL	Beryllium	0.35		0.025	0.30	mg/Kg
Q2436-02	TP-69	SOIL	Calcium	361		10.9	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Chromium	8.42		0.046	0.49	mg/Kg
Q2436-02	TP-69	SOIL	Cobalt	0.39	J	0.098	1.48	mg/Kg
Q2436-02	TP-69	SOIL	Copper	1.29		0.22	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Iron	18800		3.92	4.92	mg/Kg
Q2436-02	TP-69	SOIL	Lead	28.7		0.13	0.59	mg/Kg
Q2436-02	TP-69	SOIL	Magnesium	182		11.8	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Manganese	7.58		0.14	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Mercury	0.024		0.0080	0.015	mg/Kg
Q2436-02	TP-69	SOIL	Nickel	1.17	J	0.13	1.97	mg/Kg
Q2436-02	TP-69	SOIL	Potassium	385		27.2	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Selenium	4.47		0.26	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Silver	0.84		0.12	0.49	mg/Kg

Hit Summary Sheet
SW-846

SDG No.:	Q2436	Order ID:	Q2436
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2436-02	TP-69	SOIL	Sodium	324		17.5	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Thallium	0.53	J	0.23	1.97	mg/Kg
Q2436-02	TP-69	SOIL	Vanadium	17.1		0.25	1.97	mg/Kg
Q2436-02	TP-69	SOIL	Zinc	7.35		0.23	1.97	mg/Kg

Client ID : TP-85

Q2436-03	TP-85	SOIL	Aluminum	4030		0.85	5.07	mg/Kg
Q2436-03	TP-85	SOIL	Arsenic	1.63		0.19	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Barium	11.0		0.74	5.07	mg/Kg
Q2436-03	TP-85	SOIL	Beryllium	0.26	J	0.025	0.30	mg/Kg
Q2436-03	TP-85	SOIL	Calcium	176		11.2	101	mg/Kg
Q2436-03	TP-85	SOIL	Chromium	5.18		0.048	0.51	mg/Kg
Q2436-03	TP-85	SOIL	Cobalt	1.06	J	0.10	1.52	mg/Kg
Q2436-03	TP-85	SOIL	Copper	2.32		0.22	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Iron	7060		4.04	5.07	mg/Kg
Q2436-03	TP-85	SOIL	Lead	4.12		0.13	0.61	mg/Kg
Q2436-03	TP-85	SOIL	Magnesium	183		12.2	101	mg/Kg
Q2436-03	TP-85	SOIL	Manganese	9.36		0.14	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Nickel	2.53		0.13	2.03	mg/Kg
Q2436-03	TP-85	SOIL	Potassium	181		28.1	101	mg/Kg
Q2436-03	TP-85	SOIL	Selenium	1.72		0.26	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Silver	0.29	J	0.12	0.51	mg/Kg
Q2436-03	TP-85	SOIL	Sodium	240		18.0	101	mg/Kg
Q2436-03	TP-85	SOIL	Vanadium	11.8		0.25	2.03	mg/Kg
Q2436-03	TP-85	SOIL	Zinc	7.55		0.23	2.03	mg/Kg

Client ID : TP-86

Q2436-04	TP-86	SOIL	Aluminum	4440		0.84	5.01	mg/Kg
Q2436-04	TP-86	SOIL	Arsenic	6.08		0.19	1.00	mg/Kg
Q2436-04	TP-86	SOIL	Barium	14.9		0.73	5.01	mg/Kg
Q2436-04	TP-86	SOIL	Beryllium	0.71		0.025	0.30	mg/Kg
Q2436-04	TP-86	SOIL	Calcium	344		11.1	100	mg/Kg
Q2436-04	TP-86	SOIL	Chromium	14.2		0.047	0.50	mg/Kg
Q2436-04	TP-86	SOIL	Cobalt	4.14		0.10	1.50	mg/Kg
Q2436-04	TP-86	SOIL	Iron	24500		4.00	5.01	mg/Kg
Q2436-04	TP-86	SOIL	Lead	3.87		0.13	0.60	mg/Kg
Q2436-04	TP-86	SOIL	Magnesium	275		12.0	100	mg/Kg
Q2436-04	TP-86	SOIL	Manganese	71.6		0.14	1.00	mg/Kg
Q2436-04	TP-86	SOIL	Nickel	3.18		0.13	2.00	mg/Kg
Q2436-04	TP-86	SOIL	Potassium	791		27.8	100	mg/Kg
Q2436-04	TP-86	SOIL	Selenium	5.08		0.26	1.00	mg/Kg

Hit Summary Sheet
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SDG No.: Q2436

Order ID: Q2436

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2436-04	TP-86	SOIL	Silver	1.12		0.12	0.50	mg/Kg
Q2436-04	TP-86	SOIL	Sodium	427		17.8	100	mg/Kg
Q2436-04	TP-86	SOIL	Thallium	0.50	J	0.23	2.00	mg/Kg
Q2436-04	TP-86	SOIL	Vanadium	22.6		0.25	2.00	mg/Kg
Q2436-04	TP-86	SOIL	Zinc	15.5		0.23	2.00	mg/Kg
Client ID : TP-84								
Q2436-05	TP-84	SOIL	Aluminum	4860		0.80	4.73	mg/Kg
Q2436-05	TP-84	SOIL	Arsenic	2.23		0.18	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Barium	11.5		0.69	4.73	mg/Kg
Q2436-05	TP-84	SOIL	Beryllium	0.42		0.024	0.28	mg/Kg
Q2436-05	TP-84	SOIL	Calcium	320		10.5	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Chromium	6.70		0.044	0.47	mg/Kg
Q2436-05	TP-84	SOIL	Cobalt	2.20		0.095	1.42	mg/Kg
Q2436-05	TP-84	SOIL	Copper	2.13		0.21	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Iron	13400		3.78	4.73	mg/Kg
Q2436-05	TP-84	SOIL	Lead	4.43		0.12	0.57	mg/Kg
Q2436-05	TP-84	SOIL	Magnesium	312		11.4	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Manganese	25.9		0.13	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Nickel	3.47		0.12	1.89	mg/Kg
Q2436-05	TP-84	SOIL	Potassium	191		26.2	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Selenium	3.16		0.25	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Silver	0.66		0.11	0.47	mg/Kg
Q2436-05	TP-84	SOIL	Sodium	160		16.8	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Vanadium	13.9		0.24	1.89	mg/Kg
Q2436-05	TP-84	SOIL	Zinc	13.1		0.22	1.89	mg/Kg
Client ID : TP-83								
Q2436-06	TP-83	SOIL	Aluminum	8670		0.88	5.26	mg/Kg
Q2436-06	TP-83	SOIL	Arsenic	4.16		0.20	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Barium	20.7		0.77	5.26	mg/Kg
Q2436-06	TP-83	SOIL	Beryllium	0.65		0.026	0.32	mg/Kg
Q2436-06	TP-83	SOIL	Calcium	227		11.7	105	mg/Kg
Q2436-06	TP-83	SOIL	Chromium	13.0		0.049	0.53	mg/Kg
Q2436-06	TP-83	SOIL	Cobalt	3.11		0.11	1.58	mg/Kg
Q2436-06	TP-83	SOIL	Copper	1.13		0.23	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Iron	19500		4.19	5.26	mg/Kg
Q2436-06	TP-83	SOIL	Lead	4.86		0.14	0.63	mg/Kg
Q2436-06	TP-83	SOIL	Magnesium	273		12.6	105	mg/Kg
Q2436-06	TP-83	SOIL	Manganese	57.2		0.15	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Mercury	0.011	J	0.0080	0.015	mg/Kg

Hit Summary Sheet
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SDG No.: Q2436

Order ID: Q2436

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2436-06	TP-83	SOIL	Nickel	4.90		0.14	2.10	mg/Kg
Q2436-06	TP-83	SOIL	Potassium	382		29.1	105	mg/Kg
Q2436-06	TP-83	SOIL	Selenium	4.79		0.27	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Silver	0.93		0.13	0.53	mg/Kg
Q2436-06	TP-83	SOIL	Sodium	82.2	J	18.7	105	mg/Kg
Q2436-06	TP-83	SOIL	Vanadium	20.5		0.26	2.10	mg/Kg
Q2436-06	TP-83	SOIL	Zinc	14.4		0.24	2.10	mg/Kg
Client ID : TP-87								
Q2436-07	TP-87	SOIL	Aluminum	8840		0.85	5.03	mg/Kg
Q2436-07	TP-87	SOIL	Arsenic	4.94		0.19	1.01	mg/Kg
Q2436-07	TP-87	SOIL	Barium	14.6		0.74	5.03	mg/Kg
Q2436-07	TP-87	SOIL	Beryllium	0.77		0.025	0.30	mg/Kg
Q2436-07	TP-87	SOIL	Calcium	278		11.2	101	mg/Kg
Q2436-07	TP-87	SOIL	Chromium	15.3		0.047	0.50	mg/Kg
Q2436-07	TP-87	SOIL	Cobalt	4.91		0.10	1.51	mg/Kg
Q2436-07	TP-87	SOIL	Iron	21300		4.02	5.03	mg/Kg
Q2436-07	TP-87	SOIL	Lead	5.97		0.13	0.60	mg/Kg
Q2436-07	TP-87	SOIL	Magnesium	319		12.1	101	mg/Kg
Q2436-07	TP-87	SOIL	Manganese	52.1		0.14	1.01	mg/Kg
Q2436-07	TP-87	SOIL	Mercury	0.010	J	0.0080	0.014	mg/Kg
Q2436-07	TP-87	SOIL	Nickel	7.01		0.13	2.01	mg/Kg
Q2436-07	TP-87	SOIL	Potassium	354		27.9	101	mg/Kg
Q2436-07	TP-87	SOIL	Selenium	4.81		0.26	1.01	mg/Kg
Q2436-07	TP-87	SOIL	Silver	0.93		0.12	0.50	mg/Kg
Q2436-07	TP-87	SOIL	Sodium	487		17.9	101	mg/Kg
Q2436-07	TP-87	SOIL	Vanadium	19.7		0.25	2.01	mg/Kg
Q2436-07	TP-87	SOIL	Zinc	16.6		0.23	2.01	mg/Kg
Client ID : TP-100								
Q2436-08	TP-100	SOIL	Aluminum	11700		0.90	5.36	mg/Kg
Q2436-08	TP-100	SOIL	Arsenic	2.67		0.20	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Barium	24.5		0.78	5.36	mg/Kg
Q2436-08	TP-100	SOIL	Beryllium	0.72		0.027	0.32	mg/Kg
Q2436-08	TP-100	SOIL	Calcium	333		11.9	107	mg/Kg
Q2436-08	TP-100	SOIL	Chromium	7.70		0.050	0.54	mg/Kg
Q2436-08	TP-100	SOIL	Cobalt	5.97		0.11	1.61	mg/Kg
Q2436-08	TP-100	SOIL	Copper	1.12		0.24	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Iron	17500		4.28	5.36	mg/Kg
Q2436-08	TP-100	SOIL	Lead	7.65		0.14	0.64	mg/Kg
Q2436-08	TP-100	SOIL	Magnesium	270		12.9	107	mg/Kg

Hit Summary Sheet
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SDG No.: Q2436 **Order ID:** Q2436
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2436-08	TP-100	SOIL	Manganese	72.9		0.15	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Mercury	0.010	J	0.0080	0.015	mg/Kg
Q2436-08	TP-100	SOIL	Nickel	7.48		0.14	2.14	mg/Kg
Q2436-08	TP-100	SOIL	Potassium	266		29.7	107	mg/Kg
Q2436-08	TP-100	SOIL	Selenium	4.27		0.28	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Silver	0.75		0.13	0.54	mg/Kg
Q2436-08	TP-100	SOIL	Sodium	176		19.1	107	mg/Kg
Q2436-08	TP-100	SOIL	Vanadium	15.7		0.27	2.14	mg/Kg
Q2436-08	TP-100	SOIL	Zinc	20.4		0.25	2.14	mg/Kg
Client ID : TP-99								
Q2436-09	TP-99	SOIL	Aluminum	15300		0.81	4.82	mg/Kg
Q2436-09	TP-99	SOIL	Arsenic	2.79		0.18	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Barium	66.6		0.70	4.82	mg/Kg
Q2436-09	TP-99	SOIL	Beryllium	0.51		0.024	0.29	mg/Kg
Q2436-09	TP-99	SOIL	Calcium	2910		10.7	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Chromium	7.44		0.045	0.48	mg/Kg
Q2436-09	TP-99	SOIL	Cobalt	4.07		0.096	1.45	mg/Kg
Q2436-09	TP-99	SOIL	Copper	3.21		0.21	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Iron	13700		3.85	4.82	mg/Kg
Q2436-09	TP-99	SOIL	Lead	7.43		0.13	0.58	mg/Kg
Q2436-09	TP-99	SOIL	Magnesium	319		11.6	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Manganese	61.2		0.14	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Nickel	8.04		0.13	1.93	mg/Kg
Q2436-09	TP-99	SOIL	Potassium	299		26.7	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Selenium	3.85		0.25	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Silver	0.69		0.12	0.48	mg/Kg
Q2436-09	TP-99	SOIL	Sodium	318		17.2	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Vanadium	12.2		0.24	1.93	mg/Kg
Q2436-09	TP-99	SOIL	Zinc	18.5		0.22	1.93	mg/Kg
Client ID : TP-82								
Q2436-10	TP-82	SOIL	Aluminum	1050		0.85	5.03	mg/Kg
Q2436-10	TP-82	SOIL	Arsenic	1.03		0.19	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Barium	8.54		0.74	5.03	mg/Kg
Q2436-10	TP-82	SOIL	Beryllium	0.20	J	0.025	0.30	mg/Kg
Q2436-10	TP-82	SOIL	Calcium	174		11.2	101	mg/Kg
Q2436-10	TP-82	SOIL	Chromium	3.04		0.047	0.50	mg/Kg
Q2436-10	TP-82	SOIL	Cobalt	1.28	J	0.10	1.51	mg/Kg
Q2436-10	TP-82	SOIL	Copper	0.86	J	0.22	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Iron	7140		4.02	5.03	mg/Kg

Hit Summary Sheet
SW-846

SDG No.:	Q2436	Order ID:	Q2436
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2436-10	TP-82	SOIL	Lead	3.84		0.13	0.60	mg/Kg
Q2436-10	TP-82	SOIL	Magnesium	83.6	J	12.1	101	mg/Kg
Q2436-10	TP-82	SOIL	Manganese	19.7		0.14	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Nickel	1.05	J	0.13	2.01	mg/Kg
Q2436-10	TP-82	SOIL	Potassium	45.1	J	27.9	101	mg/Kg
Q2436-10	TP-82	SOIL	Selenium	1.72		0.26	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Silver	0.38	J	0.12	0.50	mg/Kg
Q2436-10	TP-82	SOIL	Sodium	171		17.9	101	mg/Kg
Q2436-10	TP-82	SOIL	Vanadium	9.07		0.25	2.01	mg/Kg
Q2436-10	TP-82	SOIL	Zinc	6.28		0.23	2.01	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8840		1	0.89	5.32	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.66	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-38-2	Arsenic	4.89		1	0.20	1.06	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-39-3	Barium	67.4	N	1	0.78	5.32	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-41-7	Beryllium	0.56		1	0.027	0.32	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-70-2	Calcium	318	N	1	11.8	106	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-47-3	Chromium	7.09		1	0.050	0.53	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-48-4	Cobalt	2.07	*	1	0.11	1.60	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-50-8	Copper	1.84		1	0.23	1.06	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7439-89-6	Iron	12400		1	4.24	5.32	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7439-92-1	Lead	5.95		1	0.14	0.64	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7439-95-4	Magnesium	203	N	1	12.8	106	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7439-96-5	Manganese	70.4	N*	1	0.15	1.06	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.014	mg/Kg	06/27/25 14:20	06/30/25 13:57	7471B	
7440-02-0	Nickel	3.08		1	0.14	2.13	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-09-7	Potassium	207		1	29.5	106	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7782-49-2	Selenium	2.88		1	0.28	1.06	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-22-4	Silver	0.56		1	0.13	0.53	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-23-5	Sodium	235		1	18.9	106	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.13	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-62-2	Vanadium	19.7		1	0.27	2.13	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-66-6	Zinc	8.13		1	0.25	2.13	mg/Kg	06/27/25 13:05	07/01/25 17:43	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:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	82

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3120		1	0.83	4.92	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.46	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-38-2	Arsenic	5.74		1	0.19	0.98	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-39-3	Barium	5.63	N	1	0.72	4.92	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-41-7	Beryllium	0.35		1	0.025	0.30	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-70-2	Calcium	361	N	1	10.9	98.3	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-47-3	Chromium	8.42		1	0.046	0.49	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-48-4	Cobalt	0.39	J*	1	0.098	1.48	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-50-8	Copper	1.29		1	0.22	0.98	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7439-89-6	Iron	18800		1	3.92	4.92	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7439-92-1	Lead	28.7		1	0.13	0.59	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7439-95-4	Magnesium	182	N	1	11.8	98.3	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7439-96-5	Manganese	7.58	N*	1	0.14	0.98	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7439-97-6	Mercury	0.024		1	0.0080	0.015	mg/Kg	06/27/25 14:20	06/30/25 13:59	7471B	
7440-02-0	Nickel	1.17	J	1	0.13	1.97	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-09-7	Potassium	385		1	27.2	98.3	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7782-49-2	Selenium	4.47		1	0.26	0.98	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-22-4	Silver	0.84		1	0.12	0.49	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-23-5	Sodium	324		1	17.5	98.3	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-28-0	Thallium	0.53	J	1	0.23	1.97	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-62-2	Vanadium	17.1		1	0.25	1.97	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-66-6	Zinc	7.35		1	0.23	1.97	mg/Kg	06/27/25 13:05	07/01/25 17:47	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:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4030		1	0.85	5.07	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.53	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-38-2	Arsenic	1.63		1	0.19	1.01	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-39-3	Barium	11.0	N	1	0.74	5.07	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-41-7	Beryllium	0.26	J	1	0.025	0.30	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-70-2	Calcium	176	N	1	11.2	101	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-47-3	Chromium	5.18		1	0.048	0.51	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-48-4	Cobalt	1.06	J*	1	0.10	1.52	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-50-8	Copper	2.32		1	0.22	1.01	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7439-89-6	Iron	7060		1	4.04	5.07	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7439-92-1	Lead	4.12		1	0.13	0.61	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7439-95-4	Magnesium	183	N	1	12.2	101	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7439-96-5	Manganese	9.36	N*	1	0.14	1.01	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.014	mg/Kg	06/27/25 14:20	06/30/25 14:01	7471B	
7440-02-0	Nickel	2.53		1	0.13	2.03	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-09-7	Potassium	181		1	28.1	101	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7782-49-2	Selenium	1.72		1	0.26	1.01	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-22-4	Silver	0.29	J	1	0.12	0.51	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-23-5	Sodium	240		1	18.0	101	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.03	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-62-2	Vanadium	11.8		1	0.25	2.03	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-66-6	Zinc	7.55		1	0.23	2.03	mg/Kg	06/27/25 13:05	07/01/25 17:51	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:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4440		1	0.84	5.01	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.51	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-38-2	Arsenic	6.08		1	0.19	1.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-39-3	Barium	14.9	N	1	0.73	5.01	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-41-7	Beryllium	0.71		1	0.025	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-70-2	Calcium	344	N	1	11.1	100	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-47-3	Chromium	14.2		1	0.047	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-48-4	Cobalt	4.14	*	1	0.10	1.50	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-50-8	Copper	0.22	U	1	0.22	1.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7439-89-6	Iron	24500		1	4.00	5.01	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7439-92-1	Lead	3.87		1	0.13	0.60	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7439-95-4	Magnesium	275	N	1	12.0	100	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7439-96-5	Manganese	71.6	N*	1	0.14	1.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.015	mg/Kg	06/27/25 14:20	06/30/25 14:08	7471B	
7440-02-0	Nickel	3.18		1	0.13	2.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-09-7	Potassium	791		1	27.8	100	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7782-49-2	Selenium	5.08		1	0.26	1.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-22-4	Silver	1.12		1	0.12	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-23-5	Sodium	427		1	17.8	100	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-28-0	Thallium	0.50	J	1	0.23	2.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-62-2	Vanadium	22.6		1	0.25	2.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-66-6	Zinc	15.5		1	0.23	2.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	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:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4860		1	0.80	4.73	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.37	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-38-2	Arsenic	2.23		1	0.18	0.95	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-39-3	Barium	11.5	N	1	0.69	4.73	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-41-7	Beryllium	0.42		1	0.024	0.28	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.28	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-70-2	Calcium	320	N	1	10.5	94.6	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-47-3	Chromium	6.70		1	0.044	0.47	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-48-4	Cobalt	2.20	*	1	0.095	1.42	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-50-8	Copper	2.13		1	0.21	0.95	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7439-89-6	Iron	13400		1	3.78	4.73	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7439-92-1	Lead	4.43		1	0.12	0.57	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7439-95-4	Magnesium	312	N	1	11.4	94.6	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7439-96-5	Manganese	25.9	N*	1	0.13	0.95	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7439-97-6	Mercury	0.0070	U	1	0.0070	0.013	mg/Kg	06/27/25 14:20	06/30/25 14:10	7471B	
7440-02-0	Nickel	3.47		1	0.12	1.89	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-09-7	Potassium	191		1	26.2	94.6	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7782-49-2	Selenium	3.16		1	0.25	0.95	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-22-4	Silver	0.66		1	0.11	0.47	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-23-5	Sodium	160		1	16.8	94.6	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.89	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-62-2	Vanadium	13.9		1	0.24	1.89	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-66-6	Zinc	13.1		1	0.22	1.89	mg/Kg	06/27/25 13:05	07/01/25 18:05	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:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8670		1	0.88	5.26	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.63	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-38-2	Arsenic	4.16		1	0.20	1.05	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-39-3	Barium	20.7	N	1	0.77	5.26	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-41-7	Beryllium	0.65		1	0.026	0.32	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.32	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-70-2	Calcium	227	N	1	11.7	105	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-47-3	Chromium	13.0		1	0.049	0.53	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-48-4	Cobalt	3.11	*	1	0.11	1.58	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-50-8	Copper	1.13		1	0.23	1.05	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7439-89-6	Iron	19500		1	4.19	5.26	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7439-92-1	Lead	4.86		1	0.14	0.63	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7439-95-4	Magnesium	273	N	1	12.6	105	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7439-96-5	Manganese	57.2	N*	1	0.15	1.05	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7439-97-6	Mercury	0.011	J	1	0.0080	0.015	mg/Kg	06/27/25 14:20	06/30/25 14:13	7471B	
7440-02-0	Nickel	4.90		1	0.14	2.10	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-09-7	Potassium	382		1	29.1	105	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7782-49-2	Selenium	4.79		1	0.27	1.05	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-22-4	Silver	0.93		1	0.13	0.53	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-23-5	Sodium	82.2	J	1	18.7	105	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.10	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-62-2	Vanadium	20.5		1	0.26	2.10	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-66-6	Zinc	14.4		1	0.24	2.10	mg/Kg	06/27/25 13:05	07/01/25 18:10	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:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8840		1	0.85	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.52	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-38-2	Arsenic	4.94		1	0.19	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-39-3	Barium	14.6	N	1	0.74	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-41-7	Beryllium	0.77		1	0.025	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-70-2	Calcium	278	N	1	11.2	101	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-47-3	Chromium	15.3		1	0.047	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-48-4	Cobalt	4.91	*	1	0.10	1.51	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-50-8	Copper	0.22	U	1	0.22	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7439-89-6	Iron	21300		1	4.02	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7439-92-1	Lead	5.97		1	0.13	0.60	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7439-95-4	Magnesium	319	N	1	12.1	101	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7439-96-5	Manganese	52.1	N*	1	0.14	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7439-97-6	Mercury	0.010	J	1	0.0080	0.014	mg/Kg	06/27/25 14:20	06/30/25 14:15	7471B	
7440-02-0	Nickel	7.01		1	0.13	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-09-7	Potassium	354		1	27.9	101	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7782-49-2	Selenium	4.81		1	0.26	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-22-4	Silver	0.93		1	0.12	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-23-5	Sodium	487		1	17.9	101	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-62-2	Vanadium	19.7		1	0.25	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-66-6	Zinc	16.6		1	0.23	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	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:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	11700		1	0.90	5.36	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.68	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-38-2	Arsenic	2.67		1	0.20	1.07	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-39-3	Barium	24.5	N	1	0.78	5.36	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-41-7	Beryllium	0.72		1	0.027	0.32	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-70-2	Calcium	333	N	1	11.9	107	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-47-3	Chromium	7.70		1	0.050	0.54	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-48-4	Cobalt	5.97	*	1	0.11	1.61	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-50-8	Copper	1.12		1	0.24	1.07	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7439-89-6	Iron	17500		1	4.28	5.36	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7439-92-1	Lead	7.65		1	0.14	0.64	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7439-95-4	Magnesium	270	N	1	12.9	107	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7439-96-5	Manganese	72.9	N*	1	0.15	1.07	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7439-97-6	Mercury	0.010	J	1	0.0080	0.015	mg/Kg	06/27/25 14:20	06/30/25 14:17	7471B	
7440-02-0	Nickel	7.48		1	0.14	2.14	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-09-7	Potassium	266		1	29.7	107	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7782-49-2	Selenium	4.27		1	0.28	1.07	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-22-4	Silver	0.75		1	0.13	0.54	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-23-5	Sodium	176		1	19.1	107	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.14	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-62-2	Vanadium	15.7		1	0.27	2.14	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-66-6	Zinc	20.4		1	0.25	2.14	mg/Kg	06/27/25 13:05	07/01/25 18:18	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:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	92.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	15300		1	0.81	4.82	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.41	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-38-2	Arsenic	2.79		1	0.18	0.96	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-39-3	Barium	66.6	N	1	0.70	4.82	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-41-7	Beryllium	0.51		1	0.024	0.29	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.29	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-70-2	Calcium	2910	N	1	10.7	96.4	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-47-3	Chromium	7.44		1	0.045	0.48	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-48-4	Cobalt	4.07	*	1	0.096	1.45	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-50-8	Copper	3.21		1	0.21	0.96	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7439-89-6	Iron	13700		1	3.85	4.82	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7439-92-1	Lead	7.43		1	0.13	0.58	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7439-95-4	Magnesium	319	N	1	11.6	96.4	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7439-96-5	Manganese	61.2	N*	1	0.14	0.96	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.015	mg/Kg	06/27/25 14:20	06/30/25 14:19	7471B	
7440-02-0	Nickel	8.04		1	0.13	1.93	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-09-7	Potassium	299		1	26.7	96.4	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7782-49-2	Selenium	3.85		1	0.25	0.96	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-22-4	Silver	0.69		1	0.12	0.48	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-23-5	Sodium	318		1	17.2	96.4	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.93	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-62-2	Vanadium	12.2		1	0.24	1.93	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-66-6	Zinc	18.5		1	0.22	1.93	mg/Kg	06/27/25 13:05	07/01/25 18:44	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:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	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	1050		1	0.85	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.52	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-38-2	Arsenic	1.03		1	0.19	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-39-3	Barium	8.54	N	1	0.74	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-41-7	Beryllium	0.20	J	1	0.025	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-70-2	Calcium	174	N	1	11.2	101	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-47-3	Chromium	3.04		1	0.047	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-48-4	Cobalt	1.28	J*	1	0.10	1.51	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-50-8	Copper	0.86	J	1	0.22	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7439-89-6	Iron	7140		1	4.02	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7439-92-1	Lead	3.84		1	0.13	0.60	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7439-95-4	Magnesium	83.6	JN	1	12.1	101	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7439-96-5	Manganese	19.7	N*	1	0.14	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.014	mg/Kg	06/27/25 14:20	06/30/25 14:22	7471B	
7440-02-0	Nickel	1.05	J	1	0.13	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-09-7	Potassium	45.1	J	1	27.9	101	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7782-49-2	Selenium	1.72		1	0.26	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-22-4	Silver	0.38	J	1	0.12	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-23-5	Sodium	171		1	17.9	101	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-62-2	Vanadium	9.07		1	0.25	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-66-6	Zinc	6.28		1	0.23	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436
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
ICV12	Mercury	3.64	4.0	91	90 - 110	CV	06/30/2025	13:29	LB136329

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436
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
CCV36	Mercury	4.99	5.0	100	90 - 110	CV	06/30/2025	13:33	LB136329
CCV37	Mercury	5.08	5.0	102	90 - 110	CV	06/30/2025	14:03	LB136329
CCV38	Mercury	5.17	5.0	103	90 - 110	CV	06/30/2025	14:31	LB136329
CCV39	Mercury	5.00	5.0	100	90 - 110	CV	06/30/2025	14:57	LB136329

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436
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	7650	8000	96	90 - 110	P	07/01/2025	13:30	LB136344
	Antimony	4240	4000	106	90 - 110	P	07/01/2025	13:30	LB136344
	Arsenic	4150	4000	104	90 - 110	P	07/01/2025	13:30	LB136344
	Barium	7710	8000	96	90 - 110	P	07/01/2025	13:30	LB136344
	Beryllium	195	200	97	90 - 110	P	07/01/2025	13:30	LB136344
	Cadmium	2040	2000	102	90 - 110	P	07/01/2025	13:30	LB136344
	Calcium	19100	20000	95	90 - 110	P	07/01/2025	13:30	LB136344
	Chromium	815	800	102	90 - 110	P	07/01/2025	13:30	LB136344
	Cobalt	2050	2000	102	90 - 110	P	07/01/2025	13:30	LB136344
	Copper	1050	1000	105	90 - 110	P	07/01/2025	13:30	LB136344
	Iron	4030	4000	101	90 - 110	P	07/01/2025	13:30	LB136344
	Lead	4000	4000	100	90 - 110	P	07/01/2025	13:30	LB136344
	Magnesium	18900	20000	95	90 - 110	P	07/01/2025	13:30	LB136344
	Manganese	1910	2000	96	90 - 110	P	07/01/2025	13:30	LB136344
	Nickel	2050	2000	103	90 - 110	P	07/01/2025	13:30	LB136344
	Potassium	20600	20000	103	90 - 110	P	07/01/2025	13:30	LB136344
	Selenium	4200	4000	105	90 - 110	P	07/01/2025	13:30	LB136344
	Silver	903	1000	90	90 - 110	P	07/01/2025	13:30	LB136344
	Sodium	20600	20000	103	90 - 110	P	07/01/2025	13:30	LB136344
	Thallium	3900	4000	98	90 - 110	P	07/01/2025	13:30	LB136344
	Vanadium	1900	2000	95	90 - 110	P	07/01/2025	13:30	LB136344
	Zinc	2050	2000	102	90 - 110	P	07/01/2025	13:30	LB136344

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2436
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436
 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	99.9	100	100	80 - 120	P	07/01/2025	13:34	LB136344
	Antimony	51.6	50.0	103	80 - 120	P	07/01/2025	13:34	LB136344
	Arsenic	22.8	20.0	114	80 - 120	P	07/01/2025	13:34	LB136344
	Barium	91.3	100	91	80 - 120	P	07/01/2025	13:34	LB136344
	Beryllium	6.06	6.0	101	80 - 120	P	07/01/2025	13:34	LB136344
	Cadmium	5.90	6.0	98	80 - 120	P	07/01/2025	13:34	LB136344
	Calcium	1990	2000	99	80 - 120	P	07/01/2025	13:34	LB136344
	Chromium	10.7	10.0	107	80 - 120	P	07/01/2025	13:34	LB136344
	Cobalt	30.0	30.0	100	80 - 120	P	07/01/2025	13:34	LB136344
	Copper	21.3	20.0	107	80 - 120	P	07/01/2025	13:34	LB136344
	Iron	106	100	106	80 - 120	P	07/01/2025	13:34	LB136344
	Lead	12.0	12.0	100	80 - 120	P	07/01/2025	13:34	LB136344
	Magnesium	2030	2000	102	80 - 120	P	07/01/2025	13:34	LB136344
	Manganese	20.6	20.0	103	80 - 120	P	07/01/2025	13:34	LB136344
	Nickel	40.9	40.0	102	80 - 120	P	07/01/2025	13:34	LB136344
	Potassium	1980	2000	99	80 - 120	P	07/01/2025	13:34	LB136344
	Selenium	23.7	20.0	118	80 - 120	P	07/01/2025	13:34	LB136344
	Silver	9.72	10.0	97	80 - 120	P	07/01/2025	13:34	LB136344
	Sodium	2010	2000	101	80 - 120	P	07/01/2025	13:34	LB136344
	Thallium	41.3	40.0	103	80 - 120	P	07/01/2025	13:34	LB136344
	Vanadium	39.2	40.0	98	80 - 120	P	07/01/2025	13:34	LB136344
	Zinc	41.8	40.0	105	80 - 120	P	07/01/2025	13:34	LB136344

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2436
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436
 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	9760	10000	98	90 - 110	P	07/01/2025	14:09	LB136344
	Antimony	4990	5000	100	90 - 110	P	07/01/2025	14:09	LB136344
	Arsenic	5000	5000	100	90 - 110	P	07/01/2025	14:09	LB136344
	Barium	9930	10000	99	90 - 110	P	07/01/2025	14:09	LB136344
	Beryllium	244	250	97	90 - 110	P	07/01/2025	14:09	LB136344
	Cadmium	2500	2500	100	90 - 110	P	07/01/2025	14:09	LB136344
	Calcium	24300	25000	97	90 - 110	P	07/01/2025	14:09	LB136344
	Chromium	1010	1000	101	90 - 110	P	07/01/2025	14:09	LB136344
	Cobalt	2480	2500	99	90 - 110	P	07/01/2025	14:09	LB136344
	Copper	1250	1250	100	90 - 110	P	07/01/2025	14:09	LB136344
	Iron	5180	5000	104	90 - 110	P	07/01/2025	14:09	LB136344
	Lead	4980	5000	100	90 - 110	P	07/01/2025	14:09	LB136344
	Magnesium	24200	25000	97	90 - 110	P	07/01/2025	14:09	LB136344
	Manganese	2450	2500	98	90 - 110	P	07/01/2025	14:09	LB136344
	Nickel	2480	2500	99	90 - 110	P	07/01/2025	14:09	LB136344
	Potassium	25900	25000	104	90 - 110	P	07/01/2025	14:09	LB136344
	Selenium	5020	5000	100	90 - 110	P	07/01/2025	14:09	LB136344
	Silver	1270	1250	102	90 - 110	P	07/01/2025	14:09	LB136344
	Sodium	26100	25000	104	90 - 110	P	07/01/2025	14:09	LB136344
	Thallium	5050	5000	101	90 - 110	P	07/01/2025	14:09	LB136344
	Vanadium	2440	2500	98	90 - 110	P	07/01/2025	14:09	LB136344
	Zinc	2550	2500	102	90 - 110	P	07/01/2025	14:09	LB136344
CCV02	Aluminum	9380	10000	94	90 - 110	P	07/01/2025	15:42	LB136344
	Antimony	4900	5000	98	90 - 110	P	07/01/2025	15:42	LB136344
	Arsenic	4910	5000	98	90 - 110	P	07/01/2025	15:42	LB136344
	Barium	9330	10000	93	90 - 110	P	07/01/2025	15:42	LB136344
	Beryllium	230	250	92	90 - 110	P	07/01/2025	15:42	LB136344
	Cadmium	2400	2500	96	90 - 110	P	07/01/2025	15:42	LB136344
	Calcium	23200	25000	93	90 - 110	P	07/01/2025	15:42	LB136344
	Chromium	960	1000	96	90 - 110	P	07/01/2025	15:42	LB136344
	Cobalt	2390	2500	96	90 - 110	P	07/01/2025	15:42	LB136344
	Copper	1220	1250	98	90 - 110	P	07/01/2025	15:42	LB136344
	Iron	4960	5000	99	90 - 110	P	07/01/2025	15:42	LB136344
	Lead	4780	5000	96	90 - 110	P	07/01/2025	15:42	LB136344

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2436
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436
 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	22900	25000	92	90 - 110	P	07/01/2025	15:42	LB136344
	Manganese	2370	2500	95	90 - 110	P	07/01/2025	15:42	LB136344
	Nickel	2400	2500	96	90 - 110	P	07/01/2025	15:42	LB136344
	Potassium	25000	25000	100	90 - 110	P	07/01/2025	15:42	LB136344
	Selenium	4950	5000	99	90 - 110	P	07/01/2025	15:42	LB136344
	Silver	1220	1250	98	90 - 110	P	07/01/2025	15:42	LB136344
	Sodium	25900	25000	104	90 - 110	P	07/01/2025	15:42	LB136344
	Thallium	4660	5000	93	90 - 110	P	07/01/2025	15:42	LB136344
	Vanadium	2340	2500	94	90 - 110	P	07/01/2025	15:42	LB136344
	Zinc	2470	2500	99	90 - 110	P	07/01/2025	15:42	LB136344
CCV03	Aluminum	9310	10000	93	90 - 110	P	07/01/2025	16:37	LB136344
	Antimony	4960	5000	99	90 - 110	P	07/01/2025	16:37	LB136344
	Arsenic	4900	5000	98	90 - 110	P	07/01/2025	16:37	LB136344
	Barium	9410	10000	94	90 - 110	P	07/01/2025	16:37	LB136344
	Beryllium	228	250	91	90 - 110	P	07/01/2025	16:37	LB136344
	Cadmium	2350	2500	94	90 - 110	P	07/01/2025	16:37	LB136344
	Calcium	23100	25000	93	90 - 110	P	07/01/2025	16:37	LB136344
	Chromium	941	1000	94	90 - 110	P	07/01/2025	16:37	LB136344
	Cobalt	2370	2500	95	90 - 110	P	07/01/2025	16:37	LB136344
	Copper	1200	1250	96	90 - 110	P	07/01/2025	16:37	LB136344
	Iron	4810	5000	96	90 - 110	P	07/01/2025	16:37	LB136344
	Lead	4730	5000	94	90 - 110	P	07/01/2025	16:37	LB136344
	Magnesium	24400	25000	97	90 - 110	P	07/01/2025	16:37	LB136344
	Manganese	2340	2500	94	90 - 110	P	07/01/2025	16:37	LB136344
	Nickel	2370	2500	95	90 - 110	P	07/01/2025	16:37	LB136344
	Potassium	24200	25000	97	90 - 110	P	07/01/2025	16:37	LB136344
	Selenium	4980	5000	100	90 - 110	P	07/01/2025	16:37	LB136344
	Silver	1210	1250	96	90 - 110	P	07/01/2025	16:37	LB136344
	Sodium	25900	25000	103	90 - 110	P	07/01/2025	16:37	LB136344
	Thallium	4740	5000	95	90 - 110	P	07/01/2025	16:37	LB136344
	Vanadium	2310	2500	93	90 - 110	P	07/01/2025	16:37	LB136344
	Zinc	2440	2500	98	90 - 110	P	07/01/2025	16:37	LB136344
CCV04	Aluminum	9450	10000	94	90 - 110	P	07/01/2025	17:26	LB136344
	Antimony	5160	5000	103	90 - 110	P	07/01/2025	17:26	LB136344

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2436

Contract: CAMP02 Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436

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	5110	5000	102	90 - 110	P	07/01/2025	17:26	LB136344
	Barium	9520	10000	95	90 - 110	P	07/01/2025	17:26	LB136344
	Beryllium	230	250	92	90 - 110	P	07/01/2025	17:26	LB136344
	Cadmium	2380	2500	95	90 - 110	P	07/01/2025	17:26	LB136344
	Calcium	23600	25000	94	90 - 110	P	07/01/2025	17:26	LB136344
	Chromium	932	1000	93	90 - 110	P	07/01/2025	17:26	LB136344
	Cobalt	2400	2500	96	90 - 110	P	07/01/2025	17:26	LB136344
	Copper	1230	1250	99	90 - 110	P	07/01/2025	17:26	LB136344
	Iron	4740	5000	95	90 - 110	P	07/01/2025	17:26	LB136344
	Lead	4780	5000	96	90 - 110	P	07/01/2025	17:26	LB136344
	Magnesium	24700	25000	99	90 - 110	P	07/01/2025	17:26	LB136344
	Manganese	2390	2500	96	90 - 110	P	07/01/2025	17:26	LB136344
	Nickel	2400	2500	96	90 - 110	P	07/01/2025	17:26	LB136344
	Potassium	24000	25000	96	90 - 110	P	07/01/2025	17:26	LB136344
	Selenium	5250	5000	105	90 - 110	P	07/01/2025	17:26	LB136344
	Silver	1200	1250	96	90 - 110	P	07/01/2025	17:26	LB136344
	Sodium	26000	25000	104	90 - 110	P	07/01/2025	17:26	LB136344
	Thallium	4820	5000	96	90 - 110	P	07/01/2025	17:26	LB136344
	Vanadium	2360	2500	94	90 - 110	P	07/01/2025	17:26	LB136344
	Zinc	2420	2500	97	90 - 110	P	07/01/2025	17:26	LB136344
CCV05	Aluminum	9530	10000	95	90 - 110	P	07/01/2025	18:27	LB136344
	Antimony	5380	5000	108	90 - 110	P	07/01/2025	18:27	LB136344
	Arsenic	5290	5000	106	90 - 110	P	07/01/2025	18:27	LB136344
	Barium	9750	10000	98	90 - 110	P	07/01/2025	18:27	LB136344
	Beryllium	231	250	92	90 - 110	P	07/01/2025	18:27	LB136344
	Cadmium	2410	2500	97	90 - 110	P	07/01/2025	18:27	LB136344
	Calcium	23500	25000	94	90 - 110	P	07/01/2025	18:27	LB136344
	Chromium	949	1000	95	90 - 110	P	07/01/2025	18:27	LB136344
	Cobalt	2450	2500	98	90 - 110	P	07/01/2025	18:27	LB136344
	Copper	1270	1250	102	90 - 110	P	07/01/2025	18:27	LB136344
	Iron	4990	5000	100	90 - 110	P	07/01/2025	18:27	LB136344
	Lead	4870	5000	97	90 - 110	P	07/01/2025	18:27	LB136344
	Magnesium	24600	25000	98	90 - 110	P	07/01/2025	18:27	LB136344
	Manganese	2400	2500	96	90 - 110	P	07/01/2025	18:27	LB136344

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2436
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436
 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	2450	2500	98	90 - 110	P	07/01/2025	18:27	LB136344
	Potassium	25100	25000	100	90 - 110	P	07/01/2025	18:27	LB136344
	Selenium	5440	5000	109	90 - 110	P	07/01/2025	18:27	LB136344
	Silver	1240	1250	99	90 - 110	P	07/01/2025	18:27	LB136344
	Sodium	27300	25000	109	90 - 110	P	07/01/2025	18:27	LB136344
	Thallium	4780	5000	96	90 - 110	P	07/01/2025	18:27	LB136344
	Vanadium	2370	2500	95	90 - 110	P	07/01/2025	18:27	LB136344
	Zinc	2530	2500	101	90 - 110	P	07/01/2025	18:27	LB136344
CCV06	Aluminum	9270	10000	93	90 - 110	P	07/01/2025	20:05	LB136344
	Antimony	5250	5000	105	90 - 110	P	07/01/2025	20:05	LB136344
	Arsenic	5150	5000	103	90 - 110	P	07/01/2025	20:05	LB136344
	Barium	9560	10000	96	90 - 110	P	07/01/2025	20:05	LB136344
	Beryllium	234	250	94	90 - 110	P	07/01/2025	20:05	LB136344
	Cadmium	2320	2500	93	90 - 110	P	07/01/2025	20:05	LB136344
	Calcium	23100	25000	92	90 - 110	P	07/01/2025	20:05	LB136344
	Chromium	918	1000	92	90 - 110	P	07/01/2025	20:05	LB136344
	Cobalt	2370	2500	95	90 - 110	P	07/01/2025	20:05	LB136344
	Copper	1230	1250	98	90 - 110	P	07/01/2025	20:05	LB136344
	Iron	4810	5000	96	90 - 110	P	07/01/2025	20:05	LB136344
	Lead	4670	5000	94	90 - 110	P	07/01/2025	20:05	LB136344
	Magnesium	22500	25000	90	90 - 110	P	07/01/2025	20:05	LB136344
	Manganese	2340	2500	94	90 - 110	P	07/01/2025	20:05	LB136344
	Nickel	2360	2500	94	90 - 110	P	07/01/2025	20:05	LB136344
	Potassium	24300	25000	97	90 - 110	P	07/01/2025	20:05	LB136344
	Selenium	5310	5000	106	90 - 110	P	07/01/2025	20:05	LB136344
	Silver	1200	1250	96	90 - 110	P	07/01/2025	20:05	LB136344
	Sodium	24900	25000	100	90 - 110	P	07/01/2025	20:05	LB136344
	Thallium	4600	5000	92	90 - 110	P	07/01/2025	20:05	LB136344
	Vanadium	2330	2500	93	90 - 110	P	07/01/2025	20:05	LB136344
	Zinc	2430	2500	97	90 - 110	P	07/01/2025	20:05	LB136344
CCV07	Aluminum	9140	10000	91	90 - 110	P	07/01/2025	21:22	LB136344
	Antimony	4990	5000	100	90 - 110	P	07/01/2025	21:22	LB136344
	Arsenic	4870	5000	98	90 - 110	P	07/01/2025	21:22	LB136344
	Barium	9540	10000	95	90 - 110	P	07/01/2025	21:22	LB136344

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2436
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436
 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	227	250	91	90 - 110	P	07/01/2025	21:22	LB136344
	Cadmium	2290	2500	92	90 - 110	P	07/01/2025	21:22	LB136344
	Calcium	22800	25000	91	90 - 110	P	07/01/2025	21:22	LB136344
	Chromium	933	1000	93	90 - 110	P	07/01/2025	21:22	LB136344
	Cobalt	2330	2500	93	90 - 110	P	07/01/2025	21:22	LB136344
	Copper	1190	1250	95	90 - 110	P	07/01/2025	21:22	LB136344
	Iron	5110	5000	102	90 - 110	P	07/01/2025	21:22	LB136344
	Lead	4610	5000	92	90 - 110	P	07/01/2025	21:22	LB136344
	Magnesium	24000	25000	96	90 - 110	P	07/01/2025	21:22	LB136344
	Manganese	2300	2500	92	90 - 110	P	07/01/2025	21:22	LB136344
	Nickel	2320	2500	93	90 - 110	P	07/01/2025	21:22	LB136344
	Potassium	25600	25000	102	90 - 110	P	07/01/2025	21:22	LB136344
	Selenium	4970	5000	99	90 - 110	P	07/01/2025	21:22	LB136344
	Silver	1220	1250	98	90 - 110	P	07/01/2025	21:22	LB136344
	Sodium	27400	25000	110	90 - 110	P	07/01/2025	21:22	LB136344
	Thallium	4600	5000	92	90 - 110	P	07/01/2025	21:22	LB136344
	Vanadium	2300	2500	92	90 - 110	P	07/01/2025	21:22	LB136344
	Zinc	2480	2500	99	90 - 110	P	07/01/2025	21:22	LB136344
CCV08	Aluminum	9280	10000	93	90 - 110	P	07/01/2025	21:50	LB136344
	Antimony	5110	5000	102	90 - 110	P	07/01/2025	21:50	LB136344
	Arsenic	5040	5000	101	90 - 110	P	07/01/2025	21:50	LB136344
	Barium	9530	10000	95	90 - 110	P	07/01/2025	21:50	LB136344
	Beryllium	238	250	95	90 - 110	P	07/01/2025	21:50	LB136344
	Cadmium	2350	2500	94	90 - 110	P	07/01/2025	21:50	LB136344
	Calcium	23100	25000	92	90 - 110	P	07/01/2025	21:50	LB136344
	Chromium	939	1000	94	90 - 110	P	07/01/2025	21:50	LB136344
	Cobalt	2370	2500	95	90 - 110	P	07/01/2025	21:50	LB136344
	Copper	1230	1250	98	90 - 110	P	07/01/2025	21:50	LB136344
	Iron	5080	5000	102	90 - 110	P	07/01/2025	21:50	LB136344
	Lead	4690	5000	94	90 - 110	P	07/01/2025	21:50	LB136344
	Magnesium	23500	25000	94	90 - 110	P	07/01/2025	21:50	LB136344
	Manganese	2320	2500	93	90 - 110	P	07/01/2025	21:50	LB136344
	Nickel	2370	2500	95	90 - 110	P	07/01/2025	21:50	LB136344
	Potassium	25700	25000	103	90 - 110	P	07/01/2025	21:50	LB136344

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436
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
CCV08	Selenium	5170	5000	103	90 - 110	P	07/01/2025	21:50	LB136344
	Silver	1230	1250	98	90 - 110	P	07/01/2025	21:50	LB136344
	Sodium	23900	25000	96	90 - 110	P	07/01/2025	21:50	LB136344
	Thallium	4710	5000	94	90 - 110	P	07/01/2025	21:50	LB136344
	Vanadium	2330	2500	93	90 - 110	P	07/01/2025	21:50	LB136344
	Zinc	2530	2500	101	90 - 110	P	07/01/2025	21:50	LB136344

Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436
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	0.18	0.2	89	70 - 130	CV	06/30/2025	13:38	LB136329
CRI01	Aluminum	95.2	100	95	65 - 135	P	07/01/2025	13:48	LB136344
	Antimony	49.5	50.0	99	65 - 135	P	07/01/2025	13:48	LB136344
	Arsenic	23.6	20.0	118	65 - 135	P	07/01/2025	13:48	LB136344
	Barium	87.2	100	87	65 - 135	P	07/01/2025	13:48	LB136344
	Beryllium	5.86	6.0	98	65 - 135	P	07/01/2025	13:48	LB136344
	Cadmium	5.88	6.0	98	65 - 135	P	07/01/2025	13:48	LB136344
	Calcium	1970	2000	99	65 - 135	P	07/01/2025	13:48	LB136344
	Chromium	10.7	10.0	107	65 - 135	P	07/01/2025	13:48	LB136344
	Cobalt	30.0	30.0	100	65 - 135	P	07/01/2025	13:48	LB136344
	Copper	21.5	20.0	107	65 - 135	P	07/01/2025	13:48	LB136344
	Iron	111	100	111	65 - 135	P	07/01/2025	13:48	LB136344
	Lead	11.1	12.0	93	65 - 135	P	07/01/2025	13:48	LB136344
	Magnesium	2030	2000	101	65 - 135	P	07/01/2025	13:48	LB136344
	Manganese	19.7	20.0	98	65 - 135	P	07/01/2025	13:48	LB136344
	Nickel	40.7	40.0	102	65 - 135	P	07/01/2025	13:48	LB136344
	Potassium	2100	2000	105	65 - 135	P	07/01/2025	13:48	LB136344
	Selenium	18.4	20.0	92	65 - 135	P	07/01/2025	13:48	LB136344
	Silver	9.62	10.0	96	65 - 135	P	07/01/2025	13:48	LB136344
	Sodium	2070	2000	104	65 - 135	P	07/01/2025	13:48	LB136344
	Thallium	41.5	40.0	104	65 - 135	P	07/01/2025	13:48	LB136344
	Vanadium	38.8	40.0	97	65 - 135	P	07/01/2025	13:48	LB136344
	Zinc	41.6	40.0	104	65 - 135	P	07/01/2025	13:48	LB136344



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

Contract:

CAMP02

Lab Code:

CHEM

SDG No.:

Q2436

Case No.:

Q2436

SAS No.:

Q2436

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB12	Mercury	0.076	+/-0.2	U	0.20	CV	06/30/2025	13:31	LB136329

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2436							
Contract:	CAMP02	Lab Code:	CHEM	Case No.:	Q2436	SAS No.:	Q2436		
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB36	Mercury	0.076	+/-0.2	U	0.20	CV	06/30/2025	13:36	LB136329
CCB37	Mercury	0.076	+/-0.2	U	0.20	CV	06/30/2025	14:06	LB136329
CCB38	Mercury	0.076	+/-0.2	U	0.20	CV	06/30/2025	14:33	LB136329
CCB39	Mercury	0.076	+/-0.2	U	0.20	CV	06/30/2025	15:00	LB136329

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	24.7	+/-50	J	100	P	07/01/2025	13:38	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	13:38	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	13:38	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	13:38	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	13:38	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	13:38	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	13:38	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	13:38	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	13:38	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	13:38	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	13:38	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	13:38	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	13:38	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	13:38	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	13:38	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	13:38	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	13:38	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	13:38	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	13:38	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	13:38	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	13:38	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	13:38	LB136344

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2436							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2436	SAS No.: Q2436						
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	07/01/2025	14:23	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	14:23	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	14:23	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	14:23	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	14:23	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	14:23	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	14:23	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	14:23	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	14:23	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	14:23	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	14:23	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	14:23	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	14:23	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	14:23	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	14:23	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	14:23	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	14:23	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	14:23	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	14:23	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	14:23	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	14:23	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	14:23	LB136344
CCB02	Aluminum	11.3	+/-50	U	100	P	07/01/2025	15:46	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	15:46	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	15:46	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	15:46	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	15:46	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	15:46	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	15:46	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	15:46	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	15:46	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	15:46	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	15:46	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	15:46	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	15:46	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	15:46	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	15:46	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	15:46	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	15:46	LB136344

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2436							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2436	SAS No.: Q2436						
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	07/01/2025	15:46	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	15:46	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	15:46	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	15:46	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	15:46	LB136344
CCB03	Aluminum	11.3	+/-50	U	100	P	07/01/2025	16:42	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	16:42	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	16:42	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	16:42	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	16:42	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	16:42	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	16:42	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	16:42	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	16:42	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	16:42	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	16:42	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	16:42	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	16:42	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	16:42	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	16:42	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	16:42	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	16:42	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	16:42	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	16:42	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	16:42	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	16:42	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	16:42	LB136344
CCB04	Aluminum	11.3	+/-50	U	100	P	07/01/2025	17:30	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	17:30	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	17:30	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	17:30	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	17:30	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	17:30	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	17:30	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	17:30	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	17:30	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	17:30	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	17:30	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	17:30	LB136344

- 3a -

Client:	CDM Smith		SDG No.:	Q2436	
Contract:	CAMP02	Lab Code:	CHEM	Case No.:	Q2436
				SAS No.:	Q2436

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	07/01/2025	17:30	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	17:30	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	17:30	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	17:30	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	17:30	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	17:30	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	17:30	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	17:30	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	17:30	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	17:30	LB136344
CCB05	Aluminum	11.3	+/-50	U	100	P	07/01/2025	18:39	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	18:39	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	18:39	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	18:39	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	18:39	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	18:39	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	18:39	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	18:39	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	18:39	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	18:39	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	18:39	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	18:39	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	18:39	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	18:39	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	18:39	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	18:39	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	18:39	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	18:39	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	18:39	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	18:39	LB136344
CCB06	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	18:39	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	18:39	LB136344
	Aluminum	11.3	+/-50	U	100	P	07/01/2025	20:34	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	20:34	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	20:34	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	20:34	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	20:34	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	20:34	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	20:34	LB136344

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2436							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2436	SAS No.: Q2436						
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	07/01/2025	20:34	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	20:34	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	20:34	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	20:34	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	20:34	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	20:34	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	20:34	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	20:34	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	20:34	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	20:34	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	20:34	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	20:34	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	20:34	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	20:34	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	20:34	LB136344
CCB07	Aluminum	11.3	+/-50	U	100	P	07/01/2025	21:27	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	21:27	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	21:27	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	21:27	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	21:27	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	21:27	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	21:27	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	21:27	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	21:27	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	21:27	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	21:27	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	21:27	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	21:27	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	21:27	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	21:27	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	21:27	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	21:27	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	21:27	LB136344
	Sodium	943	+/-1000	J	2000	P	07/01/2025	21:27	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	21:27	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	21:27	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	21:27	LB136344
CCB08	Aluminum	11.3	+/-50	U	100	P	07/01/2025	21:54	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	21:54	LB136344

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

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	07/01/2025	21:54	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	21:54	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	21:54	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	21:54	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	21:54	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	21:54	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	21:54	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	21:54	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	21:54	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	21:54	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	21:54	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	21:54	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	21:54	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	21:54	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	21:54	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	21:54	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	21:54	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	21:54	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	21:54	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	21:54	LB136344

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2436

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168665BL		SOLID		Batch Number:	PB168665		Prep Date:	06/27/2025	
	Mercury	0.0080	<0.014	U	0.014	CV	06/30/2025	13:48	LB136329

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2436

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168648BL	SOLID			Batch Number:	PB168648		Prep Date:	06/27/2025	
	Aluminum	0.84	<2.5	U	5.00	P	07/01/2025	16:21	LB136344
	Antimony	0.22	<1.25	U	2.50	P	07/01/2025	16:21	LB136344
	Arsenic	0.19	<0.5	U	1.00	P	07/01/2025	16:21	LB136344
	Barium	0.73	<2.5	U	5.00	P	07/01/2025	16:21	LB136344
	Beryllium	0.025	<0.15	U	0.30	P	07/01/2025	16:21	LB136344
	Cadmium	0.024	<0.15	U	0.30	P	07/01/2025	16:21	LB136344
	Calcium	11.1	<50	U	100	P	07/01/2025	16:21	LB136344
	Chromium	0.047	<0.25	U	0.50	P	07/01/2025	16:21	LB136344
	Cobalt	0.10	<0.75	U	1.50	P	07/01/2025	16:21	LB136344
	Copper	0.22	<0.5	U	1.00	P	07/01/2025	16:21	LB136344
	Iron	3.99	<2.5	U	5.00	P	07/01/2025	16:21	LB136344
	Lead	0.13	<0.3	U	0.60	P	07/01/2025	16:21	LB136344
	Magnesium	12.0	<50	U	100	P	07/01/2025	16:21	LB136344
	Manganese	0.14	<0.5	U	1.00	P	07/01/2025	16:21	LB136344
	Nickel	0.13	<1	U	2.00	P	07/01/2025	16:21	LB136344
	Potassium	27.7	<50	U	100	P	07/01/2025	16:21	LB136344
	Selenium	0.26	<0.5	U	1.00	P	07/01/2025	16:21	LB136344
	Silver	0.12	<0.25	U	0.50	P	07/01/2025	16:21	LB136344
	Sodium	17.8	<50	U	100	P	07/01/2025	16:21	LB136344
	Thallium	0.23	<1	U	2.00	P	07/01/2025	16:21	LB136344
	Vanadium	0.25	<1	U	2.00	P	07/01/2025	16:21	LB136344
	Zinc	0.23	<1	U	2.00	P	07/01/2025	16:21	LB136344

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	237000	255000	93	216000	294000	07/01/2025	13:52	LB136344
	Antimony	3.01			-50	50	07/01/2025	13:52	LB136344
	Arsenic	0.28			-20	20	07/01/2025	13:52	LB136344
	Barium	-3.18	6.0	53	-94	106	07/01/2025	13:52	LB136344
	Beryllium	1.03			-6	6	07/01/2025	13:52	LB136344
	Cadmium	-4.49	1.0	449	-5	7	07/01/2025	13:52	LB136344
	Calcium	228000	245000	93	208000	282000	07/01/2025	13:52	LB136344
	Chromium	58.9	52.0	113	42	62	07/01/2025	13:52	LB136344
	Cobalt	0.56			-30	30	07/01/2025	13:52	LB136344
	Copper	-12.2	2.0	610	-18	22	07/01/2025	13:52	LB136344
	Iron	101000	101000	100	85600	116500	07/01/2025	13:52	LB136344
	Lead	-9.53			-12	12	07/01/2025	13:52	LB136344
	Magnesium	237000	255000	93	216000	294000	07/01/2025	13:52	LB136344
	Manganese	4.50	7.0	64	-13	27	07/01/2025	13:52	LB136344
	Nickel	11.6	2.0	580	-38	42	07/01/2025	13:52	LB136344
	Potassium	53.6			0	0	07/01/2025	13:52	LB136344
	Selenium	4.84			-20	20	07/01/2025	13:52	LB136344
	Silver	-2.15			-10	10	07/01/2025	13:52	LB136344
	Sodium	46.2			0	0	07/01/2025	13:52	LB136344
	Thallium	3.45			-40	40	07/01/2025	13:52	LB136344
	Vanadium	1.97			-40	40	07/01/2025	13:52	LB136344
	Zinc	1.98			-40	40	07/01/2025	13:52	LB136344
ICSAB01	Aluminum	236000	247000	96	209000	285000	07/01/2025	13:56	LB136344
	Antimony	620	618	100	525	711	07/01/2025	13:56	LB136344
	Arsenic	101	104	97	88.4	120	07/01/2025	13:56	LB136344
	Barium	468	537	87	437	637	07/01/2025	13:56	LB136344
	Beryllium	468	495	94	420	570	07/01/2025	13:56	LB136344
	Cadmium	970	972	100	826	1120	07/01/2025	13:56	LB136344
	Calcium	227000	235000	97	199000	271000	07/01/2025	13:56	LB136344
	Chromium	552	542	102	460	624	07/01/2025	13:56	LB136344
	Cobalt	491	476	103	404	548	07/01/2025	13:56	LB136344
	Copper	475	511	93	434	588	07/01/2025	13:56	LB136344
	Iron	100000	99300	101	84400	114500	07/01/2025	13:56	LB136344
	Lead	38.6	49.0	79	37	61	07/01/2025	13:56	LB136344
	Magnesium	235000	248000	95	210000	286000	07/01/2025	13:56	LB136344
	Manganese	483	507	95	430	584	07/01/2025	13:56	LB136344
	Nickel	981	954	103	810	1100	07/01/2025	13:56	LB136344
	Potassium	14.0			0	0	07/01/2025	13:56	LB136344
	Selenium	56.7	46.0	123	26	66	07/01/2025	13:56	LB136344
	Silver	229	201	114	170	232	07/01/2025	13:56	LB136344
	Sodium	51.9			0	0	07/01/2025	13:56	LB136344
	Thallium	91.9	108	85	68	148	07/01/2025	13:56	LB136344

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	475	491	97	417	565	07/01/2025	13:56	LB136344
	Zinc	1030	952	108	809	1095	07/01/2025	13:56	LB136344



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>CDM Smith</u>	level: <u>low</u>	sdg no.: <u>Q2436</u>
contract: <u>CAMP02</u>	lab code: <u>CHEM</u>	case no.: <u>Q2436</u> sas no.: <u>Q2436</u>
matrix: <u>Solid</u>	sample id: <u>Q2436-10</u>	client id: <u>TP-82MS</u>
Percent Solids for Sample: 92	Spiked ID: Q2436-10MS	Percent Solids for Spike Sample: 92

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	1640		1050		100	591		P
Antimony	mg/Kg	75 - 125	25.1		2.52	U	40.4	62	N	P
Arsenic	mg/Kg	75 - 125	36.5		1.03		40.4	88		P
Barium	mg/Kg	75 - 125	19.8		8.54		10.1	111		P
Beryllium	mg/Kg	75 - 125	8.33		0.20	J	10.1	81		P
Cadmium	mg/Kg	75 - 125	8.84		0.30	U	10.1	88		P
Calcium	mg/Kg	75 - 125	173		174		50.6	-2	N	P
Chromium	mg/Kg	75 - 125	20.3		3.04		20.2	85		P
Cobalt	mg/Kg	75 - 125	10.9		1.28	J	10.1	95		P
Copper	mg/Kg	75 - 125	14.5		0.86	J	15.2	90		P
Iron	mg/Kg	75 - 125	6950		7140		150	-124		P
Lead	mg/Kg	75 - 125	50.1		3.84		50.6	91		P
Magnesium	mg/Kg	75 - 125	133		83.6	J	100	49	N	P
Manganese	mg/Kg	75 - 125	28.8		19.7		10.1	90		P
Nickel	mg/Kg	75 - 125	25.1		1.05	J	25.3	95		P
Potassium	mg/Kg	75 - 125	501		45.1	J	510	89		P
Selenium	mg/Kg	75 - 125	90.4		1.72		100	89		P
Silver	mg/Kg	75 - 125	3.63		0.38	J	3.8	85		P
Sodium	mg/Kg	75 - 125	346		171		150	116		P
Thallium	mg/Kg	75 - 125	93.4		2.01	U	100	93		P
Vanadium	mg/Kg	75 - 125	21.7		9.07		15.2	83		P
Zinc	mg/Kg	75 - 125	16.4		6.28		10.1	100		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>CDM Smith</u>	level: <u>low</u>	sdg no.: <u>Q2436</u>
contract: <u>CAMP02</u>	lab code: <u>CHEM</u>	case no.: <u>Q2436</u> sas no.: <u>Q2436</u>
matrix: <u>Solid</u>	sample id: <u>Q2436-10</u>	client id: <u>TP-82MSD</u>
Percent Solids for Sample: 92	Spiked ID: Q2436-10MSD	Percent Solids for Spike Sample: 92

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	1810		1050		96.2	796		P
Antimony	mg/Kg	75 - 125	23.1		2.52	U	38.5	60	N	P
Arsenic	mg/Kg	75 - 125	36.5		1.03		38.5	92		P
Barium	mg/Kg	75 - 125	22.1		8.54		9.6	141	N	P
Beryllium	mg/Kg	75 - 125	8.13		0.20	J	9.6	83		P
Cadmium	mg/Kg	75 - 125	8.76		0.30	U	9.6	91		P
Calcium	mg/Kg	75 - 125	198		174		48.1	50	N	P
Chromium	mg/Kg	75 - 125	20.5		3.04		19.2	91		P
Cobalt	mg/Kg	75 - 125	12.1		1.28	J	9.6	112		P
Copper	mg/Kg	75 - 125	14.8		0.86	J	14.4	97		P
Iron	mg/Kg	75 - 125	7690		7140		140	396		P
Lead	mg/Kg	75 - 125	50.3		3.84		48.1	97		P
Magnesium	mg/Kg	75 - 125	143		83.6	J	96.2	61	N	P
Manganese	mg/Kg	75 - 125	46.6		19.7		9.6	280	N	P
Nickel	mg/Kg	75 - 125	25.1		1.05	J	24.0	100		P
Potassium	mg/Kg	75 - 125	506		45.1	J	480	96		P
Selenium	mg/Kg	75 - 125	89.7		1.72		96.2	91		P
Silver	mg/Kg	75 - 125	3.69		0.38	J	3.6	92		P
Sodium	mg/Kg	75 - 125	334		171		140	117		P
Thallium	mg/Kg	75 - 125	91.1		2.01	U	96.2	95		P
Vanadium	mg/Kg	75 - 125	24.5		9.07		14.4	107		P
Zinc	mg/Kg	75 - 125	17.8		6.28		9.6	120		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: CDM Smith	level: low	sdg no.: Q2436
contract: CAMP02	lab code: CHEM	case no.: Q2436 sas no.: Q2436
matrix: Solid	sample id: Q2452-05	client id: EP-2MS
Percent Solids for Sample: 87	Spiked ID: Q2452-05MS	Percent Solids for Spike Sample: 87

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.29		0.017		0.28	96		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith	level: low	sdg no.: Q2436
contract: CAMP02	lab code: CHEM	case no.: Q2436 sas no.: Q2436
matrix: Solid	sample id: Q2452-05	client id: EP-2MSD
Percent Solids for Sample: 87	Spiked ID: Q2452-05MSD	Percent Solids for Spike Sample: 87

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.33		0.017		0.31	102		CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: CDM Smith	SDG No.: Q2436	
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2436 SAS No.: Q2436
Matrix: Solid	Level: LOW	Client ID: TP-82A
Sample ID: Q2436-10	Spiked ID: Q2436-10A	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	38.7		2.52	U	40.3	96		P
Barium	mg/Kg	75 - 125	17.2		8.54		10.1	85		P
Calcium	mg/Kg	75 - 125	217		174		50.3	86		P
Magnesium	mg/Kg	75 - 125	171		83.6	J	100	87		P
Manganese	mg/Kg	75 - 125	24.5		19.7		10.1	47	N	P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436
Matrix: Solid **Sample ID:** Q2436-10 **Client ID:** TP-82DUP
Percent Solids for Sample: 92 **Duplicate ID** Q2436-10DUP **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	1050		961		9		P
Antimony	mg/Kg	20	2.52	U	2.31	U			P
Arsenic	mg/Kg	20	1.03		1.03		0		P
Barium	mg/Kg	20	8.54		7.90		8		P
Beryllium	mg/Kg	20	0.20	J	0.20	J	0		P
Cadmium	mg/Kg	20	0.30	U	0.28	U			P
Calcium	mg/Kg	20	174		160		8		P
Chromium	mg/Kg	20	3.04		2.71		11		P
Cobalt	mg/Kg	20	1.28	J	1.60		22	*	P
Copper	mg/Kg	20	0.86	J	0.78	J	10		P
Iron	mg/Kg	20	7140		6690		7		P
Lead	mg/Kg	20	3.84		4.04		5		P
Magnesium	mg/Kg	20	83.6	J	71.3	J	16		P
Manganese	mg/Kg	20	19.7		25.6		26	*	P
Nickel	mg/Kg	20	1.05	J	1.01	J	4		P
Potassium	mg/Kg	20	45.1	J	44.7	J	1		P
Selenium	mg/Kg	20	1.72		1.52		12		P
Silver	mg/Kg	20	0.38	J	0.35	J	10		P
Sodium	mg/Kg	20	171		165		4		P
Thallium	mg/Kg	20	2.01	U	1.85	U			P
Vanadium	mg/Kg	20	9.07		8.77		3		P
Zinc	mg/Kg	20	6.28		6.10		3		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436
Matrix: Solid **Sample ID:** Q2436-10MS **Client ID:** TP-82MSD
Percent Solids for Sample: 92 **Duplicate ID** Q2436-10MSD **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	1640		1810		10		P
Antimony	mg/Kg	20	25.1		23.1		8		P
Arsenic	mg/Kg	20	36.5		36.5		0		P
Barium	mg/Kg	20	19.8		22.1		11		P
Beryllium	mg/Kg	20	8.33		8.13		2		P
Cadmium	mg/Kg	20	8.84		8.76		1		P
Calcium	mg/Kg	20	173		198		13		P
Chromium	mg/Kg	20	20.3		20.5		1		P
Cobalt	mg/Kg	20	10.9		12.1		10		P
Copper	mg/Kg	20	14.5		14.8		2		P
Iron	mg/Kg	20	6950		7690		10		P
Lead	mg/Kg	20	50.1		50.3		0		P
Magnesium	mg/Kg	20	133		143		7		P
Manganese	mg/Kg	20	28.8		46.6		47	*	P
Nickel	mg/Kg	20	25.1		25.1		0		P
Potassium	mg/Kg	20	501		506		1		P
Selenium	mg/Kg	20	90.4		89.7		1		P
Silver	mg/Kg	20	3.63		3.69		2		P
Sodium	mg/Kg	20	346		334		4		P
Thallium	mg/Kg	20	93.4		91.1		2		P
Vanadium	mg/Kg	20	21.7		24.5		12		P
Zinc	mg/Kg	20	16.4		17.8		8		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2436</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2436</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2452-05</u>	Client ID:	<u>EP-2DUP</u>
Percent Solids for Sample:	87	Duplicate ID	Q2452-05DUP	Percent Solids for Spike Sample:	87

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.017		0.018		6		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2436</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2436</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2452-05MS</u>	Client ID:	<u>EP-2MSD</u>
Percent Solids for Sample:	87	Duplicate ID	Q2452-05MSD	Percent Solids for Spike Sample:	87

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.29		0.33		15		CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168648BS							
Aluminum	mg/Kg	100	91.1		91	80 - 120	P
Antimony	mg/Kg	40.0	38.9		97	80 - 120	P
Arsenic	mg/Kg	40.0	37.5		94	80 - 120	P
Barium	mg/Kg	10.0	8.43		84	80 - 120	P
Beryllium	mg/Kg	10.0	9.28		93	80 - 120	P
Cadmium	mg/Kg	10.0	9.19		92	80 - 120	P
Calcium	mg/Kg	50.0	46.8	J	94	80 - 120	P
Chromium	mg/Kg	20.0	19.0		95	80 - 120	P
Cobalt	mg/Kg	10.0	9.41		94	80 - 120	P
Copper	mg/Kg	15.0	14.8		99	80 - 120	P
Iron	mg/Kg	150	142		95	80 - 120	P
Lead	mg/Kg	50.0	46.1		92	80 - 120	P
Magnesium	mg/Kg	100	91.5	J	92	80 - 120	P
Manganese	mg/Kg	10.0	9.41		94	80 - 120	P
Nickel	mg/Kg	25.0	23.5		94	80 - 120	P
Potassium	mg/Kg	500	470		94	80 - 120	P
Selenium	mg/Kg	100	95.8		96	80 - 120	P
Silver	mg/Kg	3.8	3.52		93	80 - 120	P
Sodium	mg/Kg	150	148		99	80 - 120	P
Thallium	mg/Kg	100	94.2		94	80 - 120	P
Vanadium	mg/Kg	15.0	13.6		91	80 - 120	P
Zinc	mg/Kg	10.0	9.98		100	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2436
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168665BS Mercury	mg/Kg	0.27	0.24		90	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-82L

Lab Name: Chemtech Consulting Group

Contract: CAMP02

Lab Code: CHEM Lb No.: lb136344 Lab Sample ID : Q2436-10L SDG No.: Q2436

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)			Serial Dilution Result (S)			% Differ-ence	Q	M
	C			C					
Aluminum		1050			1150		9		P
Antimony		2.52	U		12.6	U			P
Arsenic		1.03			5.03	U	100.0		P
Barium		8.54			6.04	J	29		P
Beryllium		0.20	J		0.23	J	12		P
Cadmium		0.30	U		1.51	U			P
Calcium		174			184	J	6		P
Chromium		3.04			3.24		7		P
Cobalt		1.28	J		1.28	J	0		P
Copper		0.86	J		5.03	U	100.0		P
Iron		7140			7250		2		P
Lead		3.84			3.80		1		P
Magnesium		83.6	J		93.8	J	12		P
Manganese		19.7			20.5		4		P
Nickel		1.05	J		1.04	J	0		P
Potassium		45.1	J		503	U	100.0		P
Selenium		1.72			1.65	J	5		P
Silver		0.38	J		2.52	U	100.0		P
Sodium		171			192	J	12		P
Thallium		2.01	U		10.1	U			P
Vanadium		9.07			10.1		11		P
Zinc		6.28			6.62	J	5		P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

EP-2L

Lab Name: Chemtech Consulting Group

Contract: CAMP02

Lab Code: CHEM **Lb No.:** lb136329

Lab Sample ID : Q2452-05L **SDG No.:** Q2436

Matrix (soil/water): Solid

Level (low/med): LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.017	0.072 U	100.0		CV



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2436

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2436

SAS No.: Q2436

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2436

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2436

SAS No.: Q2436

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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.: Q2436

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2436

SAS No.: Q2436

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 INTERELEMEN CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2436

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2436

SAS No.: Q2436

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2436

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2436

SAS No.: Q2436

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>Q2436</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2436</u>
		SAS No.:	<u>Q2436</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168648							
PB168648BL	PB168648BL	MB	SOLID	06/27/2025	2.00	100.0	100.00
PB168648BS	PB168648BS	LCS	SOLID	06/27/2025	2.00	100.0	100.00
Q2436-01	TP-70	SAM	SOLID	06/27/2025	2.29	100.0	82.10
Q2436-02	TP-69	SAM	SOLID	06/27/2025	2.48	100.0	82.00
Q2436-03	TP-85	SAM	SOLID	06/27/2025	2.32	100.0	85.10
Q2436-04	TP-86	SAM	SOLID	06/27/2025	2.25	100.0	88.70
Q2436-05	TP-84	SAM	SOLID	06/27/2025	2.29	100.0	92.30
Q2436-06	TP-83	SAM	SOLID	06/27/2025	2.10	100.0	90.60
Q2436-07	TP-87	SAM	SOLID	06/27/2025	2.21	100.0	89.90
Q2436-08	TP-100	SAM	SOLID	06/27/2025	2.18	100.0	85.60
Q2436-09	TP-99	SAM	SOLID	06/27/2025	2.25	100.0	92.20
Q2436-10	TP-82	SAM	SOLID	06/27/2025	2.16	100.0	92.00
Q2436-10DUP	TP-82DUP	DUP	SOLID	06/27/2025	2.35	100.0	92.00
Q2436-10MS	TP-82MS	MS	SOLID	06/27/2025	2.15	100.0	92.00
Q2436-10MSD	TP-82MSD	MSD	SOLID	06/27/2025	2.26	100.0	92.00

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>CDM Smith</u>	SDG No.:	<u>Q2436</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2436</u>
		SAS No.:	<u>Q2436</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168665							
PB168665BL	PB168665BL	MB	SOLID	06/27/2025	0.50	35.0	100.00
PB168665BS	PB168665BS	LCS	SOLID	06/27/2025	0.52	35.0	100.00
Q2436-01	TP-70	SAM	SOLID	06/27/2025	0.59	35.0	82.10
Q2436-02	TP-69	SAM	SOLID	06/27/2025	0.56	35.0	82.00
Q2436-03	TP-85	SAM	SOLID	06/27/2025	0.57	35.0	85.10
Q2436-04	TP-86	SAM	SOLID	06/27/2025	0.53	35.0	88.70
Q2436-05	TP-84	SAM	SOLID	06/27/2025	0.57	35.0	92.30
Q2436-06	TP-83	SAM	SOLID	06/27/2025	0.52	35.0	90.60
Q2436-07	TP-87	SAM	SOLID	06/27/2025	0.56	35.0	89.90
Q2436-08	TP-100	SAM	SOLID	06/27/2025	0.56	35.0	85.60
Q2436-09	TP-99	SAM	SOLID	06/27/2025	0.52	35.0	92.20
Q2436-10	TP-82	SAM	SOLID	06/27/2025	0.55	35.0	92.00
Q2452-05DUP	EP-2DUP	DUP	SOLID	06/27/2025	0.54	35.0	87.00
Q2452-05MS	EP-2MS	MS	SOLID	06/27/2025	0.57	35.0	87.00
Q2452-05MSD	EP-2MSD	MSD	SOLID	06/27/2025	0.52	35.0	87.00

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2436 **Sas no.:** Q2436 **Sdg no.:** Q2436

Instrument id number: **Method:** **Run number:** LB136329

Start date: 06/30/2025 **End date:** 06/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1246	HG
S0.2	S0.2	1	1252	HG
S2.5	S2.5	1	1309	HG
S5	S5	1	1314	HG
S7.5	S7.5	1	1316	HG
S10	S10	1	1326	HG
ICV12	ICV12	1	1329	HG
ICB12	ICB12	1	1331	HG
CCV36	CCV36	1	1333	HG
CCB36	CCB36	1	1336	HG
CRA	CRA	1	1338	HG
PB168665BL	PB168665BL	1	1348	HG
Q2436-01	TP-70	1	1357	HG
Q2436-02	TP-69	1	1359	HG
Q2436-03	TP-85	1	1401	HG
CCV37	CCV37	1	1403	HG
CCB37	CCB37	1	1406	HG
Q2436-04	TP-86	1	1408	HG
Q2436-05	TP-84	1	1410	HG
Q2436-06	TP-83	1	1413	HG
Q2436-07	TP-87	1	1415	HG
Q2436-08	TP-100	1	1417	HG
Q2436-09	TP-99	1	1419	HG
Q2436-10	TP-82	1	1422	HG
CCV38	CCV38	1	1431	HG
CCB38	CCB38	1	1433	HG
Q2452-05DUP	EP-2DUP	1	1435	HG
Q2452-05MS	EP-2MS	1	1446	HG
Q2452-05MSD	EP-2MSD	1	1448	HG
Q2452-05L	EP-2L	5	1451	HG
PB168665BS	PB168665BS	1	1455	HG
CCV39	CCV39	1	1457	HG
CCB39	CCB39	1	1500	HG

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2436 **Sas no.:** Q2436 **Sdg no.:** Q2436

Instrument id number: **Method:** **Run number:** LB136344

Start date: 07/01/2025 **End date:** 07/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1304	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	1309	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	1313	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	1317	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	1321	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	1326	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	1330	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	1334	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	1338	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	1348	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	1352	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	1356	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	1409	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	1423	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	1542	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	1546	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168648BL	PB168648BL	1	1621	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168648BS	PB168648BS	1	1625	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	1637	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	1642	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	1726	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	1730	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-01	TP-70	1	1743	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-02	TP-69	1	1747	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-03	TP-85	1	1751	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-04	TP-86	1	1801	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-05	TP-84	1	1805	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-06	TP-83	1	1810	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-07	TP-87	1	1814	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-08	TP-100	1	1818	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	1827	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	1839	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-09	TP-99	1	1844	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10	TP-82	1	1848	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10DUP	TP-82DUP	1	1852	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10L	TP-82L	5	1859	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10MS	TP-82MS	1	1904	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10MSD	TP-82MSD	1	1908	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10A	TP-82A	1	1912	Ba,Ca,Mg,Mn,Sb
CCV06	CCV06	1	2005	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	2034	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

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CCV07	CCV07	1	2122	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	2127	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2150	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	2154	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn