

Hit Summary Sheet SW-846

SDG No.: Q2100 **Order ID:** Q2100
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-16								
Q2100-01	TP-16	SOIL	Aluminum	2640		0.82	4.90	mg/Kg
Q2100-01	TP-16	SOIL	Arsenic	5.94		0.19	0.98	mg/Kg
Q2100-01	TP-16	SOIL	Barium	5.69		0.72	4.90	mg/Kg
Q2100-01	TP-16	SOIL	Beryllium	0.82		0.024	0.29	mg/Kg
Q2100-01	TP-16	SOIL	Cadmium	1.03		0.024	0.29	mg/Kg
Q2100-01	TP-16	SOIL	Calcium	698		10.9	97.9	mg/Kg
Q2100-01	TP-16	SOIL	Chromium	14.4		0.046	0.49	mg/Kg
Q2100-01	TP-16	SOIL	Cobalt	3.09		0.098	1.47	mg/Kg
Q2100-01	TP-16	SOIL	Copper	24.8		0.22	0.98	mg/Kg
Q2100-01	TP-16	SOIL	Iron	46600		3.91	4.90	mg/Kg
Q2100-01	TP-16	SOIL	Lead	5.44		0.13	0.59	mg/Kg
Q2100-01	TP-16	SOIL	Magnesium	97.4	J	11.8	97.9	mg/Kg
Q2100-01	TP-16	SOIL	Manganese	130		0.14	0.98	mg/Kg
Q2100-01	TP-16	SOIL	Nickel	4.36		0.13	1.96	mg/Kg
Q2100-01	TP-16	SOIL	Potassium	165		27.1	97.9	mg/Kg
Q2100-01	TP-16	SOIL	Sodium	246		17.4	97.9	mg/Kg
Q2100-01	TP-16	SOIL	Vanadium	31.3		0.25	1.96	mg/Kg
Q2100-01	TP-16	SOIL	Zinc	22.6		0.23	1.96	mg/Kg
Client ID : TP-22								
Q2100-02	TP-22	SOIL	Aluminum	3840		0.90	5.34	mg/Kg
Q2100-02	TP-22	SOIL	Arsenic	6.80		0.20	1.07	mg/Kg
Q2100-02	TP-22	SOIL	Barium	16.1		0.78	5.34	mg/Kg
Q2100-02	TP-22	SOIL	Beryllium	0.73		0.027	0.32	mg/Kg
Q2100-02	TP-22	SOIL	Cadmium	0.84		0.026	0.32	mg/Kg
Q2100-02	TP-22	SOIL	Calcium	1640		11.9	107	mg/Kg
Q2100-02	TP-22	SOIL	Chromium	8.92		0.050	0.53	mg/Kg
Q2100-02	TP-22	SOIL	Cobalt	3.34		0.11	1.60	mg/Kg
Q2100-02	TP-22	SOIL	Copper	18.4		0.24	1.07	mg/Kg
Q2100-02	TP-22	SOIL	Iron	39000		4.26	5.34	mg/Kg
Q2100-02	TP-22	SOIL	Lead	17.7		0.14	0.64	mg/Kg
Q2100-02	TP-22	SOIL	Magnesium	553		12.8	107	mg/Kg
Q2100-02	TP-22	SOIL	Manganese	154		0.15	1.07	mg/Kg
Q2100-02	TP-22	SOIL	Mercury	0.091		0.0080	0.015	mg/Kg
Q2100-02	TP-22	SOIL	Nickel	3.19		0.14	2.14	mg/Kg
Q2100-02	TP-22	SOIL	Potassium	369		29.6	107	mg/Kg
Q2100-02	TP-22	SOIL	Sodium	675		19.0	107	mg/Kg
Q2100-02	TP-22	SOIL	Vanadium	22.3		0.27	2.14	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2100-02	TP-22	SOIL	Zinc	14.8		0.25	2.14	mg/Kg
Client ID : TP-21								
Q2100-03	TP-21	SOIL	Aluminum	3330		0.99	5.87	mg/Kg
Q2100-03	TP-21	SOIL	Arsenic	10.3		0.22	1.17	mg/Kg
Q2100-03	TP-21	SOIL	Barium	18.4		0.86	5.87	mg/Kg
Q2100-03	TP-21	SOIL	Beryllium	0.55		0.029	0.35	mg/Kg
Q2100-03	TP-21	SOIL	Cadmium	0.78		0.028	0.35	mg/Kg
Q2100-03	TP-21	SOIL	Calcium	1960		13.0	117	mg/Kg
Q2100-03	TP-21	SOIL	Chromium	12.2		0.055	0.59	mg/Kg
Q2100-03	TP-21	SOIL	Cobalt	2.72		0.12	1.76	mg/Kg
Q2100-03	TP-21	SOIL	Copper	19.7		0.26	1.17	mg/Kg
Q2100-03	TP-21	SOIL	Iron	27800		4.68	5.87	mg/Kg
Q2100-03	TP-21	SOIL	Lead	23.7		0.15	0.70	mg/Kg
Q2100-03	TP-21	SOIL	Magnesium	332		14.1	117	mg/Kg
Q2100-03	TP-21	SOIL	Manganese	44.1		0.16	1.17	mg/Kg
Q2100-03	TP-21	SOIL	Mercury	0.020		0.010	0.017	mg/Kg
Q2100-03	TP-21	SOIL	Nickel	2.61		0.15	2.35	mg/Kg
Q2100-03	TP-21	SOIL	Potassium	383		32.5	117	mg/Kg
Q2100-03	TP-21	SOIL	Sodium	794		20.9	117	mg/Kg
Q2100-03	TP-21	SOIL	Vanadium	27.7		0.29	2.35	mg/Kg
Q2100-03	TP-21	SOIL	Zinc	11.5		0.27	2.35	mg/Kg
Client ID : TP-45								
Q2100-04	TP-45	SOIL	Aluminum	3260		1.01	6.02	mg/Kg
Q2100-04	TP-45	SOIL	Arsenic	8.43		0.23	1.20	mg/Kg
Q2100-04	TP-45	SOIL	Barium	14.4		0.88	6.02	mg/Kg
Q2100-04	TP-45	SOIL	Beryllium	0.53		0.030	0.36	mg/Kg
Q2100-04	TP-45	SOIL	Cadmium	0.71		0.029	0.36	mg/Kg
Q2100-04	TP-45	SOIL	Calcium	700		13.4	120	mg/Kg
Q2100-04	TP-45	SOIL	Chromium	10.9		0.057	0.60	mg/Kg
Q2100-04	TP-45	SOIL	Cobalt	1.78	J	0.12	1.81	mg/Kg
Q2100-04	TP-45	SOIL	Copper	16.1		0.27	1.20	mg/Kg
Q2100-04	TP-45	SOIL	Iron	32800		4.80	6.02	mg/Kg
Q2100-04	TP-45	SOIL	Lead	11.0		0.16	0.72	mg/Kg
Q2100-04	TP-45	SOIL	Magnesium	332		14.4	120	mg/Kg
Q2100-04	TP-45	SOIL	Manganese	49.1		0.17	1.20	mg/Kg
Q2100-04	TP-45	SOIL	Mercury	0.023		0.010	0.018	mg/Kg
Q2100-04	TP-45	SOIL	Nickel	1.84	J	0.16	2.41	mg/Kg
Q2100-04	TP-45	SOIL	Potassium	389		33.4	120	mg/Kg
Q2100-04	TP-45	SOIL	Sodium	297		21.4	120	mg/Kg

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SDG No.: Q2100

Order ID: Q2100

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2100-04	TP-45	SOIL	Vanadium	20.3		0.30	2.41	mg/Kg
Q2100-04	TP-45	SOIL	Zinc	9.77		0.28	2.41	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2640	*	1	0.82	4.90	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-36-0	Antimony	0.22	UN*	1	0.22	2.45	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-38-2	Arsenic	5.94	*	1	0.19	0.98	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-39-3	Barium	5.69	*	1	0.72	4.90	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-41-7	Beryllium	0.82	*	1	0.024	0.29	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-43-9	Cadmium	1.03		1	0.024	0.29	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-70-2	Calcium	698	*	1	10.9	97.9	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-47-3	Chromium	14.4	*	1	0.046	0.49	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-48-4	Cobalt	3.09	N*	1	0.098	1.47	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-50-8	Copper	24.8	*	1	0.22	0.98	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7439-89-6	Iron	46600	*	1	3.91	4.90	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7439-92-1	Lead	5.44		1	0.13	0.59	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7439-95-4	Magnesium	97.4	JN*	1	11.8	97.9	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7439-96-5	Manganese	130	*	1	0.14	0.98	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7439-97-6	Mercury	0.0070	U	1	0.0070	0.013	mg/Kg	05/23/25 09:50	05/23/25 13:47	7471B	
7440-02-0	Nickel	4.36	*	1	0.13	1.96	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-09-7	Potassium	165	*	1	27.1	97.9	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7782-49-2	Selenium	0.26	U	1	0.26	0.98	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-22-4	Silver	0.12	U*	1	0.12	0.49	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-23-5	Sodium	246	N	1	17.4	97.9	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	1.96	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-62-2	Vanadium	31.3	N*	1	0.25	1.96	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-66-6	Zinc	22.6	N*	1	0.23	1.96	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	84

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3840	*	1	0.90	5.34	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-36-0	Antimony	0.24	UN*	1	0.24	2.67	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-38-2	Arsenic	6.80	*	1	0.20	1.07	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-39-3	Barium	16.1	*	1	0.78	5.34	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-41-7	Beryllium	0.73	*	1	0.027	0.32	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-43-9	Cadmium	0.84		1	0.026	0.32	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-70-2	Calcium	1640	*	1	11.9	107	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-47-3	Chromium	8.92	*	1	0.050	0.53	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-48-4	Cobalt	3.34	N*	1	0.11	1.60	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-50-8	Copper	18.4	*	1	0.24	1.07	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7439-89-6	Iron	39000	*	1	4.26	5.34	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7439-92-1	Lead	17.7		1	0.14	0.64	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7439-95-4	Magnesium	553	N*	1	12.8	107	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7439-96-5	Manganese	154	*	1	0.15	1.07	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7439-97-6	Mercury	0.091		1	0.0080	0.015	mg/Kg	05/23/25 09:50	05/23/25 13:49	7471B	
7440-02-0	Nickel	3.19	*	1	0.14	2.14	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-09-7	Potassium	369	*	1	29.6	107	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7782-49-2	Selenium	0.28	U	1	0.28	1.07	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-22-4	Silver	0.13	U*	1	0.13	0.53	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-23-5	Sodium	675	N	1	19.0	107	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.14	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-62-2	Vanadium	22.3	N*	1	0.27	2.14	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-66-6	Zinc	14.8	N*	1	0.25	2.14	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

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* = 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:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3330	*	1	0.99	5.87	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-36-0	Antimony	0.26	UN*	1	0.26	2.93	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-38-2	Arsenic	10.3	*	1	0.22	1.17	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-39-3	Barium	18.4	*	1	0.86	5.87	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-41-7	Beryllium	0.55	*	1	0.029	0.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-43-9	Cadmium	0.78		1	0.028	0.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-70-2	Calcium	1960	*	1	13.0	117	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-47-3	Chromium	12.2	*	1	0.055	0.59	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-48-4	Cobalt	2.72	N*	1	0.12	1.76	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-50-8	Copper	19.7	*	1	0.26	1.17	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7439-89-6	Iron	27800	*	1	4.68	5.87	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7439-92-1	Lead	23.7		1	0.15	0.70	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7439-95-4	Magnesium	332	N*	1	14.1	117	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7439-96-5	Manganese	44.1	*	1	0.16	1.17	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7439-97-6	Mercury	0.020		1	0.010	0.017	mg/Kg	05/23/25 09:50	05/23/25 13:51	7471B	
7440-02-0	Nickel	2.61	*	1	0.15	2.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-09-7	Potassium	383	*	1	32.5	117	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7782-49-2	Selenium	0.31	U	1	0.31	1.17	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-22-4	Silver	0.14	U*	1	0.14	0.59	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-23-5	Sodium	794	N	1	20.9	117	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-28-0	Thallium	0.27	U	1	0.27	2.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-62-2	Vanadium	27.7	N*	1	0.29	2.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-66-6	Zinc	11.5	N*	1	0.27	2.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	76.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3260	*	1	1.01	6.02	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-36-0	Antimony	0.27	UN*	1	0.27	3.01	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-38-2	Arsenic	8.43	*	1	0.23	1.20	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-39-3	Barium	14.4	*	1	0.88	6.02	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-41-7	Beryllium	0.53	*	1	0.030	0.36	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-43-9	Cadmium	0.71		1	0.029	0.36	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-70-2	Calcium	700	*	1	13.4	120	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-47-3	Chromium	10.9	*	1	0.057	0.60	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-48-4	Cobalt	1.78	JN*	1	0.12	1.81	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-50-8	Copper	16.1	*	1	0.27	1.20	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7439-89-6	Iron	32800	*	1	4.80	6.02	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7439-92-1	Lead	11.0		1	0.16	0.72	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7439-95-4	Magnesium	332	N*	1	14.4	120	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7439-96-5	Manganese	49.1	*	1	0.17	1.20	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7439-97-6	Mercury	0.023		1	0.010	0.018	mg/Kg	05/23/25 09:50	05/23/25 13:54	7471B	
7440-02-0	Nickel	1.84	J*	1	0.16	2.41	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-09-7	Potassium	389	*	1	33.4	120	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7782-49-2	Selenium	0.31	U	1	0.31	1.20	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-22-4	Silver	0.14	U*	1	0.14	0.60	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-23-5	Sodium	297	N	1	21.4	120	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-28-0	Thallium	0.28	U	1	0.28	2.41	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-62-2	Vanadium	20.3	N*	1	0.30	2.41	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-66-6	Zinc	9.77	N*	1	0.28	2.41	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	CDM Smith				SDG No.:	Q2100				
Contract:	CAMP02	Lab Code:	CHEM		Case No.:	Q2100		SAS No.:	Q2100	
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number	
ICB16	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	12:31	LB135901	

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB60	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	12:36	LB135901
CCB61	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	13:03	LB135901
CCB62	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	13:31	LB135901
CCB63	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	13:58	LB135901
CCB64	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	14:23	LB135901
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	14:39	LB135901

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith SDG No.: Q2100
Contract: CAMP02 Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/30/2025	15:26	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	15:26	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	15:26	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	15:26	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	15:26	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	15:26	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	15:26	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	15:26	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	15:26	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	15:26	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	15:26	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	15:26	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	15:26	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	15:26	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	15:26	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	15:26	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	15:26	LB135969
	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	15:26	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	15:26	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	15:26	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	15:26	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	15:26	LB135969

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2100							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2100	SAS No.: Q2100						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/30/2025	16:06	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	16:06	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	16:06	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	16:06	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	16:06	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	16:06	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	16:06	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	16:06	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	16:06	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	16:06	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	16:06	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	16:06	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	16:06	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	16:06	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	16:06	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	16:06	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	16:06	LB135969
	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	16:06	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	16:06	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	16:06	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	16:06	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	16:06	LB135969
CCB02	Aluminum	11.8	+/-100	J	100	P	05/30/2025	16:56	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	16:56	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	16:56	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	16:56	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	16:56	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	16:56	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	16:56	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	16:56	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	16:56	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	16:56	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	16:56	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	16:56	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	16:56	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	16:56	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	16:56	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	16:56	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	16:56	LB135969

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2100							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2100	SAS No.: Q2100						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	16:56	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	16:56	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	16:56	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	16:56	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	16:56	LB135969
CCB03	Aluminum	100	+/-100	U	100	P	05/30/2025	17:45	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	17:45	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	17:45	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	17:45	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	17:45	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	17:45	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	17:45	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	17:45	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	17:45	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	17:45	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	17:45	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	17:45	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	17:45	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	17:45	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	17:45	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	17:45	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	17:45	LB135969
	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	17:45	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	17:45	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	17:45	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	17:45	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	17:45	LB135969
CCB04	Aluminum	13.3	+/-100	J	100	P	05/30/2025	18:32	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	18:32	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	18:32	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	18:32	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	18:32	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	18:32	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	18:32	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	18:32	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	18:32	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	18:32	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	18:32	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	18:32	LB135969



- 3a -

Client:	CDM Smith		SDG No.:	Q2100	
Contract:	CAMP02	Lab Code:	CHEM	Case No.:	Q2100
				SAS No.:	Q2100

A
B
C
D
E
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G
H
I
J

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	19:34	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	19:34	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	19:34	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	19:34	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	19:34	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	19:34	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	19:34	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	19:34	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	19:34	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	19:34	LB135969
	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	19:34	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	19:34	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	19:34	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	19:34	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	19:34	LB135969

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2100

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168146BL		SOLID		Batch Number:	PB168146		Prep Date:	05/23/2025	
	Mercury	0.013	<0.013	U	0.013	CV	05/23/2025	13:42	LB135901

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2100

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168117BL	SOLID			Batch Number:	PB168117		Prep Date:	05/21/2025	
	Aluminum	5.00	<5.00	U	5.00	P	05/30/2025	17:00	LB135969
	Antimony	2.50	<2.50	U	2.50	P	05/30/2025	17:00	LB135969
	Arsenic	1.00	<1.00	U	1.00	P	05/30/2025	17:00	LB135969
	Barium	5.00	<5.00	U	5.00	P	05/30/2025	17:00	LB135969
	Beryllium	0.30	<0.30	U	0.30	P	05/30/2025	17:00	LB135969
	Cadmium	0.30	<0.30	U	0.30	P	05/30/2025	17:00	LB135969
	Calcium	100	<100	U	100	P	05/30/2025	17:00	LB135969
	Chromium	0.50	<0.50	U	0.50	P	05/30/2025	17:00	LB135969
	Cobalt	1.50	<1.50	U	1.50	P	05/30/2025	17:00	LB135969
	Copper	1.00	<1.00	U	1.00	P	05/30/2025	17:00	LB135969
	Iron	5.00	<5.00	U	5.00	P	05/30/2025	17:00	LB135969
	Lead	0.60	<0.60	U	0.60	P	05/30/2025	17:00	LB135969
	Magnesium	100	<100	U	100	P	05/30/2025	17:00	LB135969
	Manganese	1.00	<1.00	U	1.00	P	05/30/2025	17:00	LB135969
	Nickel	2.00	<2.00	U	2.00	P	05/30/2025	17:00	LB135969
	Potassium	100	<100	U	100	P	05/30/2025	17:00	LB135969
	Selenium	1.00	<1.00	U	1.00	P	05/30/2025	17:00	LB135969
	Silver	0.50	<0.50	U	0.50	P	05/30/2025	17:00	LB135969
	Sodium	100	<100	U	100	P	05/30/2025	17:00	LB135969
	Thallium	2.00	<2.00	U	2.00	P	05/30/2025	17:00	LB135969
	Vanadium	2.00	<2.00	U	2.00	P	05/30/2025	17:00	LB135969
	Zinc	2.00	<2.00	U	2.00	P	05/30/2025	17:00	LB135969



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100
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
ICV16	Mercury	3.87	4.0	97	90 - 110	CV	05/23/2025	12:29	LB135901

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100
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
CCV60	Mercury	5.18	5.0	104	90 - 110	CV	05/23/2025	12:34	LB135901
CCV61	Mercury	4.96	5.0	99	90 - 110	CV	05/23/2025	13:01	LB135901
CCV62	Mercury	5.04	5.0	101	90 - 110	CV	05/23/2025	13:28	LB135901
CCV63	Mercury	4.97	5.0	100	90 - 110	CV	05/23/2025	13:56	LB135901
CCV64	Mercury	4.84	5.0	97	90 - 110	CV	05/23/2025	14:21	LB135901
CCV65	Mercury	4.90	5.0	98	90 - 110	CV	05/23/2025	14:37	LB135901

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100
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	2450	2500	98	90 - 110	P	05/30/2025	15:13	LB135969
	Antimony	1020	1000	102	90 - 110	P	05/30/2025	15:13	LB135969
	Arsenic	1030	1000	103	90 - 110	P	05/30/2025	15:13	LB135969
	Barium	490	520	94	90 - 110	P	05/30/2025	15:13	LB135969
	Beryllium	495	510	97	90 - 110	P	05/30/2025	15:13	LB135969
	Cadmium	518	510	102	90 - 110	P	05/30/2025	15:13	LB135969
	Calcium	9850	10000	98	90 - 110	P	05/30/2025	15:13	LB135969
	Chromium	539	520	104	90 - 110	P	05/30/2025	15:13	LB135969
	Cobalt	520	520	100	90 - 110	P	05/30/2025	15:13	LB135969
	Copper	535	510	105	90 - 110	P	05/30/2025	15:13	LB135969
	Iron	10500	10000	105	90 - 110	P	05/30/2025	15:13	LB135969
	Lead	1010	1000	101	90 - 110	P	05/30/2025	15:13	LB135969
	Magnesium	5760	6000	96	90 - 110	P	05/30/2025	15:13	LB135969
	Manganese	504	520	97	90 - 110	P	05/30/2025	15:13	LB135969
	Nickel	524	530	99	90 - 110	P	05/30/2025	15:13	LB135969
	Potassium	10100	9900	102	90 - 110	P	05/30/2025	15:13	LB135969
	Selenium	1080	1000	108	90 - 110	P	05/30/2025	15:13	LB135969
	Silver	259	250	104	90 - 110	P	05/30/2025	15:13	LB135969
	Sodium	9750	10000	98	90 - 110	P	05/30/2025	15:13	LB135969
	Thallium	1090	1000	109	90 - 110	P	05/30/2025	15:13	LB135969
	Vanadium	484	500	97	90 - 110	P	05/30/2025	15:13	LB135969
	Zinc	1000	1000	100	90 - 110	P	05/30/2025	15:13	LB135969

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2100
Contract: CAMP02 Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100
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	98.2	100	98	80 - 120	P	05/30/2025	15:21	LB135969
	Antimony	50.0	50.0	100	80 - 120	P	05/30/2025	15:21	LB135969
	Arsenic	20.5	20.0	102	80 - 120	P	05/30/2025	15:21	LB135969
	Barium	91.3	100	91	80 - 120	P	05/30/2025	15:21	LB135969
	Beryllium	5.89	6.0	98	80 - 120	P	05/30/2025	15:21	LB135969
	Cadmium	6.08	6.0	101	80 - 120	P	05/30/2025	15:21	LB135969
	Calcium	1910	2000	95	80 - 120	P	05/30/2025	15:21	LB135969
	Chromium	10.2	10.0	102	80 - 120	P	05/30/2025	15:21	LB135969
	Cobalt	29.3	30.0	98	80 - 120	P	05/30/2025	15:21	LB135969
	Copper	21.5	20.0	107	80 - 120	P	05/30/2025	15:21	LB135969
	Iron	104	100	104	80 - 120	P	05/30/2025	15:21	LB135969
	Lead	11.3	12.0	94	80 - 120	P	05/30/2025	15:21	LB135969
	Magnesium	1920	2000	96	80 - 120	P	05/30/2025	15:21	LB135969
	Manganese	19.9	20.0	100	80 - 120	P	05/30/2025	15:21	LB135969
	Nickel	40.0	40.0	100	80 - 120	P	05/30/2025	15:21	LB135969
	Potassium	1920	2000	96	80 - 120	P	05/30/2025	15:21	LB135969
	Selenium	21.2	20.0	106	80 - 120	P	05/30/2025	15:21	LB135969
	Silver	10.1	10.0	101	80 - 120	P	05/30/2025	15:21	LB135969
	Sodium	1830	2000	92	80 - 120	P	05/30/2025	15:21	LB135969
	Thallium	33.2	40.0	83	80 - 120	P	05/30/2025	15:21	LB135969
	Vanadium	36.9	40.0	92	80 - 120	P	05/30/2025	15:21	LB135969
	Zinc	40.5	40.0	101	80 - 120	P	05/30/2025	15:21	LB135969

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2100
Contract: CAMP02 Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100
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	05/30/2025	16:02	LB135969
	Antimony	5090	5000	102	90 - 110	P	05/30/2025	16:02	LB135969
	Arsenic	5110	5000	102	90 - 110	P	05/30/2025	16:02	LB135969
	Barium	9890	10000	99	90 - 110	P	05/30/2025	16:02	LB135969
	Beryllium	235	250	94	90 - 110	P	05/30/2025	16:02	LB135969
	Cadmium	2500	2500	100	90 - 110	P	05/30/2025	16:02	LB135969
	Calcium	24400	25000	98	90 - 110	P	05/30/2025	16:02	LB135969
	Chromium	1020	1000	102	90 - 110	P	05/30/2025	16:02	LB135969
	Cobalt	2500	2500	100	90 - 110	P	05/30/2025	16:02	LB135969
	Copper	1280	1250	102	90 - 110	P	05/30/2025	16:02	LB135969
	Iron	5420	5000	108	90 - 110	P	05/30/2025	16:02	LB135969
	Lead	5010	5000	100	90 - 110	P	05/30/2025	16:02	LB135969
	Magnesium	24100	25000	96	90 - 110	P	05/30/2025	16:02	LB135969
	Manganese	2430	2500	97	90 - 110	P	05/30/2025	16:02	LB135969
	Nickel	2510	2500	100	90 - 110	P	05/30/2025	16:02	LB135969
	Potassium	27000	25000	108	90 - 110	P	05/30/2025	16:02	LB135969
	Selenium	5160	5000	103	90 - 110	P	05/30/2025	16:02	LB135969
	Silver	1280	1250	102	90 - 110	P	05/30/2025	16:02	LB135969
	Sodium	26700	25000	107	90 - 110	P	05/30/2025	16:02	LB135969
	Thallium	5190	5000	104	90 - 110	P	05/30/2025	16:02	LB135969
	Vanadium	2460	2500	98	90 - 110	P	05/30/2025	16:02	LB135969
	Zinc	2680	2500	107	90 - 110	P	05/30/2025	16:02	LB135969
CCV02	Aluminum	10000	10000	100	90 - 110	P	05/30/2025	16:52	LB135969
	Antimony	5130	5000	103	90 - 110	P	05/30/2025	16:52	LB135969
	Arsenic	5140	5000	103	90 - 110	P	05/30/2025	16:52	LB135969
	Barium	9860	10000	99	90 - 110	P	05/30/2025	16:52	LB135969
	Beryllium	249	250	100	90 - 110	P	05/30/2025	16:52	LB135969
	Cadmium	2510	2500	100	90 - 110	P	05/30/2025	16:52	LB135969
	Calcium	24600	25000	99	90 - 110	P	05/30/2025	16:52	LB135969
	Chromium	1020	1000	102	90 - 110	P	05/30/2025	16:52	LB135969
	Cobalt	2510	2500	100	90 - 110	P	05/30/2025	16:52	LB135969
	Copper	1290	1250	103	90 - 110	P	05/30/2025	16:52	LB135969
	Iron	5250	5000	105	90 - 110	P	05/30/2025	16:52	LB135969
	Lead	5030	5000	101	90 - 110	P	05/30/2025	16:52	LB135969

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2100
Contract: CAMP02 Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100
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	24500	25000	98	90 - 110	P	05/30/2025	16:52	LB135969
	Manganese	2450	2500	98	90 - 110	P	05/30/2025	16:52	LB135969
	Nickel	2510	2500	100	90 - 110	P	05/30/2025	16:52	LB135969
	Potassium	26400	25000	106	90 - 110	P	05/30/2025	16:52	LB135969
	Selenium	5210	5000	104	90 - 110	P	05/30/2025	16:52	LB135969
	Silver	1290	1250	103	90 - 110	P	05/30/2025	16:52	LB135969
	Sodium	26000	25000	104	90 - 110	P	05/30/2025	16:52	LB135969
	Thallium	5160	5000	103	90 - 110	P	05/30/2025	16:52	LB135969
	Vanadium	2490	2500	100	90 - 110	P	05/30/2025	16:52	LB135969
	Zinc	2610	2500	104	90 - 110	P	05/30/2025	16:52	LB135969
CCV03	Aluminum	10200	10000	102	90 - 110	P	05/30/2025	17:41	LB135969
	Antimony	5110	5000	102	90 - 110	P	05/30/2025	17:41	LB135969
	Arsenic	5080	5000	102	90 - 110	P	05/30/2025	17:41	LB135969
	Barium	9790	10000	98	90 - 110	P	05/30/2025	17:41	LB135969
	Beryllium	272	250	109	90 - 110	P	05/30/2025	17:41	LB135969
	Cadmium	2510	2500	100	90 - 110	P	05/30/2025	17:41	LB135969
	Calcium	25300	25000	101	90 - 110	P	05/30/2025	17:41	LB135969
	Chromium	1030	1000	103	90 - 110	P	05/30/2025	17:41	LB135969
	Cobalt	2510	2500	100	90 - 110	P	05/30/2025	17:41	LB135969
	Copper	1280	1250	102	90 - 110	P	05/30/2025	17:41	LB135969
	Iron	4910	5000	98	90 - 110	P	05/30/2025	17:41	LB135969
	Lead	5020	5000	100	90 - 110	P	05/30/2025	17:41	LB135969
	Magnesium	25600	25000	102	90 - 110	P	05/30/2025	17:41	LB135969
	Manganese	2510	2500	101	90 - 110	P	05/30/2025	17:41	LB135969
	Nickel	2510	2500	100	90 - 110	P	05/30/2025	17:41	LB135969
	Potassium	24200	25000	97	90 - 110	P	05/30/2025	17:41	LB135969
	Selenium	5130	5000	102	90 - 110	P	05/30/2025	17:41	LB135969
	Silver	1290	1250	103	90 - 110	P	05/30/2025	17:41	LB135969
	Sodium	24100	25000	96	90 - 110	P	05/30/2025	17:41	LB135969
	Thallium	4980	5000	100	90 - 110	P	05/30/2025	17:41	LB135969
	Vanadium	2530	2500	101	90 - 110	P	05/30/2025	17:41	LB135969
	Zinc	2510	2500	100	90 - 110	P	05/30/2025	17:41	LB135969
CCV04	Aluminum	9760	10000	98	90 - 110	P	05/30/2025	18:28	LB135969
	Antimony	5120	5000	102	90 - 110	P	05/30/2025	18:28	LB135969

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2100
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100
 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	5120	5000	102	90 - 110	P	05/30/2025	18:28	LB135969
	Barium	9930	10000	99	90 - 110	P	05/30/2025	18:28	LB135969
	Beryllium	239	250	95	90 - 110	P	05/30/2025	18:28	LB135969
	Cadmium	2490	2500	100	90 - 110	P	05/30/2025	18:28	LB135969
	Calcium	24300	25000	97	90 - 110	P	05/30/2025	18:28	LB135969
	Chromium	1010	1000	102	90 - 110	P	05/30/2025	18:28	LB135969
	Cobalt	2490	2500	100	90 - 110	P	05/30/2025	18:28	LB135969
	Copper	1280	1250	102	90 - 110	P	05/30/2025	18:28	LB135969
	Iron	5320	5000	106	90 - 110	P	05/30/2025	18:28	LB135969
	Lead	4980	5000	100	90 - 110	P	05/30/2025	18:28	LB135969
	Magnesium	24000	25000	96	90 - 110	P	05/30/2025	18:28	LB135969
	Manganese	2430	2500	97	90 - 110	P	05/30/2025	18:28	LB135969
	Nickel	2490	2500	100	90 - 110	P	05/30/2025	18:28	LB135969
	Potassium	26200	25000	105	90 - 110	P	05/30/2025	18:28	LB135969
	Selenium	5200	5000	104	90 - 110	P	05/30/2025	18:28	LB135969
	Silver	1280	1250	102	90 - 110	P	05/30/2025	18:28	LB135969
	Sodium	26400	25000	106	90 - 110	P	05/30/2025	18:28	LB135969
	Thallium	5110	5000	102	90 - 110	P	05/30/2025	18:28	LB135969
	Vanadium	2460	2500	98	90 - 110	P	05/30/2025	18:28	LB135969
	Zinc	2510	2500	100	90 - 110	P	05/30/2025	18:28	LB135969
CCV05	Aluminum	10000	10000	100	90 - 110	P	05/30/2025	18:58	LB135969
	Antimony	5080	5000	102	90 - 110	P	05/30/2025	18:58	LB135969
	Arsenic	5070	5000	101	90 - 110	P	05/30/2025	18:58	LB135969
	Barium	9520	10000	95	90 - 110	P	05/30/2025	18:58	LB135969
	Beryllium	266	250	106	90 - 110	P	05/30/2025	18:58	LB135969
	Cadmium	2480	2500	99	90 - 110	P	05/30/2025	18:58	LB135969
	Calcium	24200	25000	97	90 - 110	P	05/30/2025	18:58	LB135969
	Chromium	1000	1000	100	90 - 110	P	05/30/2025	18:58	LB135969
	Cobalt	2480	2500	99	90 - 110	P	05/30/2025	18:58	LB135969
	Copper	1280	1250	102	90 - 110	P	05/30/2025	18:58	LB135969
	Iron	4710	5000	94	90 - 110	P	05/30/2025	18:58	LB135969
	Lead	4960	5000	99	90 - 110	P	05/30/2025	18:58	LB135969
	Magnesium	24400	25000	98	90 - 110	P	05/30/2025	18:58	LB135969
	Manganese	2430	2500	97	90 - 110	P	05/30/2025	18:58	LB135969

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2100
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100
 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	2480	2500	99	90 - 110	P	05/30/2025	18:58	LB135969
	Potassium	24000	25000	96	90 - 110	P	05/30/2025	18:58	LB135969
	Selenium	5150	5000	103	90 - 110	P	05/30/2025	18:58	LB135969
	Silver	1260	1250	101	90 - 110	P	05/30/2025	18:58	LB135969
	Sodium	23200	25000	93	90 - 110	P	05/30/2025	18:58	LB135969
	Thallium	4950	5000	99	90 - 110	P	05/30/2025	18:58	LB135969
	Vanadium	2450	2500	98	90 - 110	P	05/30/2025	18:58	LB135969
	Zinc	2570	2500	103	90 - 110	P	05/30/2025	18:58	LB135969
CCV06	Aluminum	9730	10000	97	90 - 110	P	05/30/2025	19:30	LB135969
	Antimony	4980	5000	100	90 - 110	P	05/30/2025	19:30	LB135969
	Arsenic	4950	5000	99	90 - 110	P	05/30/2025	19:30	LB135969
	Barium	9770	10000	98	90 - 110	P	05/30/2025	19:30	LB135969
	Beryllium	246	250	98	90 - 110	P	05/30/2025	19:30	LB135969
	Cadmium	2460	2500	98	90 - 110	P	05/30/2025	19:30	LB135969
	Calcium	24300	25000	97	90 - 110	P	05/30/2025	19:30	LB135969
	Chromium	985	1000	98	90 - 110	P	05/30/2025	19:30	LB135969
	Cobalt	2460	2500	98	90 - 110	P	05/30/2025	19:30	LB135969
	Copper	1250	1250	100	90 - 110	P	05/30/2025	19:30	LB135969
	Iron	4920	5000	98	90 - 110	P	05/30/2025	19:30	LB135969
	Lead	4930	5000	99	90 - 110	P	05/30/2025	19:30	LB135969
	Magnesium	24100	25000	96	90 - 110	P	05/30/2025	19:30	LB135969
	Manganese	2440	2500	97	90 - 110	P	05/30/2025	19:30	LB135969
	Nickel	2460	2500	98	90 - 110	P	05/30/2025	19:30	LB135969
	Potassium	24800	25000	99	90 - 110	P	05/30/2025	19:30	LB135969
	Selenium	5010	5000	100	90 - 110	P	05/30/2025	19:30	LB135969
	Silver	1230	1250	98	90 - 110	P	05/30/2025	19:30	LB135969
	Sodium	24200	25000	97	90 - 110	P	05/30/2025	19:30	LB135969
	Thallium	4850	5000	97	90 - 110	P	05/30/2025	19:30	LB135969
	Vanadium	2440	2500	98	90 - 110	P	05/30/2025	19:30	LB135969
	Zinc	2520	2500	101	90 - 110	P	05/30/2025	19:30	LB135969

Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100
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	0.20	0.2	100	70 - 130	CV	05/23/2025	12:38	LB135901
CRI01	Aluminum	101	100	101	65 - 135	P	05/30/2025	15:30	LB135969
	Antimony	48.4	50.0	97	65 - 135	P	05/30/2025	15:30	LB135969
	Arsenic	19.3	20.0	97	65 - 135	P	05/30/2025	15:30	LB135969
	Barium	91.0	100	91	65 - 135	P	05/30/2025	15:30	LB135969
	Beryllium	5.97	6.0	100	65 - 135	P	05/30/2025	15:30	LB135969
	Cadmium	5.90	6.0	98	65 - 135	P	05/30/2025	15:30	LB135969
	Calcium	1910	2000	96	65 - 135	P	05/30/2025	15:30	LB135969
	Chromium	10.1	10.0	101	65 - 135	P	05/30/2025	15:30	LB135969
	Cobalt	29.1	30.0	97	65 - 135	P	05/30/2025	15:30	LB135969
	Copper	20.9	20.0	104	65 - 135	P	05/30/2025	15:30	LB135969
	Iron	102	100	102	65 - 135	P	05/30/2025	15:30	LB135969
	Lead	11.0	12.0	92	65 - 135	P	05/30/2025	15:30	LB135969
	Magnesium	1900	2000	95	65 - 135	P	05/30/2025	15:30	LB135969
	Manganese	19.4	20.0	97	65 - 135	P	05/30/2025	15:30	LB135969
	Nickel	39.2	40.0	98	65 - 135	P	05/30/2025	15:30	LB135969
	Potassium	1880	2000	94	65 - 135	P	05/30/2025	15:30	LB135969
	Selenium	21.6	20.0	108	65 - 135	P	05/30/2025	15:30	LB135969
	Silver	9.55	10.0	96	65 - 135	P	05/30/2025	15:30	LB135969
	Sodium	1810	2000	90	65 - 135	P	05/30/2025	15:30	LB135969
	Thallium	29.9	40.0	75	65 - 135	P	05/30/2025	15:30	LB135969
	Vanadium	36.9	40.0	92	65 - 135	P	05/30/2025	15:30	LB135969
	Zinc	40.3	40.0	101	65 - 135	P	05/30/2025	15:30	LB135969

Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100
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	265000	255000	104	216000	294000	05/30/2025	15:34	LB135969
	Antimony	-10.5			-50	50	05/30/2025	15:34	LB135969
	Arsenic	7.93			-20	20	05/30/2025	15:34	LB135969
	Barium	5.59	6.0	93	-94	106	05/30/2025	15:34	LB135969
	Beryllium	1.08			-6	6	05/30/2025	15:34	LB135969
	Cadmium	0.96	1.0	96	-5	7	05/30/2025	15:34	LB135969
	Calcium	250000	245000	102	208000	282000	05/30/2025	15:34	LB135969
	Chromium	50.5	52.0	97	42	62	05/30/2025	15:34	LB135969
	Cobalt	2.14			-30	30	05/30/2025	15:34	LB135969
	Copper	11.1	2.0	555	-18	22	05/30/2025	15:34	LB135969
	Iron	106000	101000	105	85600	116500	05/30/2025	15:34	LB135969
	Lead	-3.47			-12	12	05/30/2025	15:34	LB135969
	Magnesium	273000	255000	107	216000	294000	05/30/2025	15:34	LB135969
	Manganese	10.4	7.0	148	-13	27	05/30/2025	15:34	LB135969
	Nickel	2.67	2.0	134	-38	42	05/30/2025	15:34	LB135969
	Potassium	82.2			0	0	05/30/2025	15:34	LB135969
	Selenium	1.16			-20	20	05/30/2025	15:34	LB135969
	Silver	-0.97			-10	10	05/30/2025	15:34	LB135969
	Sodium	15.7			0	0	05/30/2025	15:34	LB135969
	Thallium	-1.62			-40	40	05/30/2025	15:34	LB135969
	Vanadium	2.32			-40	40	05/30/2025	15:34	LB135969
	Zinc	-8.28			-40	40	05/30/2025	15:34	LB135969
ICSAB01	Aluminum	249000	247000	101	209000	285000	05/30/2025	15:49	LB135969
	Antimony	649	618	105	525	711	05/30/2025	15:49	LB135969
	Arsenic	115	104	111	88.4	120	05/30/2025	15:49	LB135969
	Barium	495	537	92	437	637	05/30/2025	15:49	LB135969
	Beryllium	545	495	110	420	570	05/30/2025	15:49	LB135969
	Cadmium	1050	972	108	826	1120	05/30/2025	15:49	LB135969
	Calcium	231000	235000	98	199000	271000	05/30/2025	15:49	LB135969
	Chromium	586	542	108	460	624	05/30/2025	15:49	LB135969
	Cobalt	530	476	111	404	548	05/30/2025	15:49	LB135969
	Copper	539	511	106	434	588	05/30/2025	15:49	LB135969
	Iron	96800	99300	98	84400	114500	05/30/2025	15:49	LB135969
	Lead	49.0	49.0	100	37	61	05/30/2025	15:49	LB135969
	Magnesium	254000	248000	102	210000	286000	05/30/2025	15:49	LB135969
	Manganese	504	507	99	430	584	05/30/2025	15:49	LB135969
	Nickel	1050	954	110	810	1100	05/30/2025	15:49	LB135969
	Potassium	50.6			0	0	05/30/2025	15:49	LB135969
	Selenium	53.5	46.0	116	26	66	05/30/2025	15:49	LB135969
	Silver	223	201	111	170	232	05/30/2025	15:49	LB135969
	Sodium	-16.6			0	0	05/30/2025	15:49	LB135969
	Thallium	86.2	108	80	68	148	05/30/2025	15:49	LB135969

Metals

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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100
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	498	491	101	417	565	05/30/2025	15:49	LB135969
	Zinc	1080	952	113	809	1095	05/30/2025	15:49	LB135969



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2100
contract: CAMP02 **lab code:** CHEM **case no.:** Q2100 **sas no.:** Q2100
matrix: Solid **sample id:** Q2101-01 **client id:** TP-1-MHEMS
Percent Solids for Sample: 93.9 **Spiked ID:** Q2101-01MS **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4360		2590		91.4	1944		P
Antimony	mg/Kg	75 - 125	17.8		2.98		36.6	40	N	P
Arsenic	mg/Kg	75 - 125	35.7		3.87		36.6	87		P
Barium	mg/Kg	75 - 125	17.3		7.03		9.1	113		P
Beryllium	mg/Kg	75 - 125	8.75		0.45		9.1	91		P
Cadmium	mg/Kg	75 - 125	9.71		0.12	J	9.1	105		P
Calcium	mg/Kg	75 - 125	469		350		45.7	260		P
Chromium	mg/Kg	75 - 125	26.1		5.25		18.3	114		P
Cobalt	mg/Kg	75 - 125	14.7		3.15		9.1	127	N	P
Copper	mg/Kg	75 - 125	23.3		8.35		13.7	109		P
Iron	mg/Kg	75 - 125	16100		11500		140	3306		P
Lead	mg/Kg	75 - 125	49.3		6.52		45.7	94		P
Magnesium	mg/Kg	75 - 125	609		356		91.4	277	N	P
Manganese	mg/Kg	75 - 125	60.8		41.0		9.1	217		P
Nickel	mg/Kg	75 - 125	30.9		3.99		22.9	117		P
Potassium	mg/Kg	75 - 125	731		274		460	99		P
Selenium	mg/Kg	75 - 125	72.2		0.31	J	91.4	79		P
Silver	mg/Kg	75 - 125	2.70		0.44	U	3.4	79		P
Sodium	mg/Kg	75 - 125	204		107		140	69	N	P
Thallium	mg/Kg	75 - 125	88.0		1.75	U	91.4	96		P
Vanadium	mg/Kg	75 - 125	31.6		13.6		13.7	132	N	P
Zinc	mg/Kg	75 - 125	23.0		11.5		9.1	127	N	P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2100
contract: CAMP02 **lab code:** CHEM **case no.:** Q2100 **sas no.:** Q2100
matrix: Solid **sample id:** Q2101-01 **client id:** TP-1-MHEMSD
Percent Solids for Sample: 93.9 **Spiked ID:** Q2101-01MSD **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4650		2590		100	2067		P
Antimony	mg/Kg	75 - 125	15.1		2.98		40.2	30	N	P
Arsenic	mg/Kg	75 - 125	39.1		3.87		40.2	88		P
Barium	mg/Kg	75 - 125	18.6		7.03		10.0	116		P
Beryllium	mg/Kg	75 - 125	8.47		0.45		10.0	80		P
Cadmium	mg/Kg	75 - 125	10.1		0.12	J	10.0	100		P
Calcium	mg/Kg	75 - 125	485		350		50.2	269		P
Chromium	mg/Kg	75 - 125	25.5		5.25		20.1	101		P
Cobalt	mg/Kg	75 - 125	15.4		3.15		10.0	122		P
Copper	mg/Kg	75 - 125	24.3		8.35		15.1	106		P
Iron	mg/Kg	75 - 125	18400		11500		150	4556		P
Lead	mg/Kg	75 - 125	52.7		6.52		50.2	92		P
Magnesium	mg/Kg	75 - 125	598		356		100	243	N	P
Manganese	mg/Kg	75 - 125	59.5		41.0		10.0	185		P
Nickel	mg/Kg	75 - 125	32.6		3.99		25.1	114		P
Potassium	mg/Kg	75 - 125	842		274		500	114		P
Selenium	mg/Kg	75 - 125	80.0		0.31	J	100	80		P
Silver	mg/Kg	75 - 125	3.48		0.44	U	3.8	92		P
Sodium	mg/Kg	75 - 125	236		107		150	86		P
Thallium	mg/Kg	75 - 125	95.4		1.75	U	100	95		P
Vanadium	mg/Kg	75 - 125	34.3		13.6		15.1	138	N	P
Zinc	mg/Kg	75 - 125	24.3		11.5		10.0	129	N	P

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith	level: low	sdg no.: Q2100
contract: CAMP02	lab code: CHEM	case no.: Q2100 sas no.: Q2100
matrix: Solid	sample id: Q2109-01	client id: TP-02-MHFMS
Percent Solids for Sample: 87.3	Spiked ID: Q2109-01MS	Percent Solids for Spike Sample: 87.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.33		0.020		0.3	104		CV

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith	level: low	sdg no.: Q2100
contract: CAMP02	lab code: CHEM	case no.: Q2100 sas no.: Q2100
matrix: Solid	sample id: Q2109-01	client id: TP-02-MHFMSD
Percent Solids for Sample: 87.3	Spiked ID: Q2109-01MSD	Percent Solids for Spike Sample: 87.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.28		0.020		0.3	86		CV

Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith	SDG No.: Q2100	
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2100 SAS No.: Q2100
Matrix: Solid	Level: LOW	Client ID: TP-1-MHEA
Sample ID: Q2101-01	Spiked ID: Q2101-01A	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	34.9		2.98		34.9	92		P
Cobalt	mg/Kg	75 - 125	11.8		3.15		8.70	99		P
Magnesium	mg/Kg	75 - 125	431		356		87.3	87		P
Sodium	mg/Kg	75 - 125	226		107		130	92		P
Vanadium	mg/Kg	75 - 125	25.0		13.6		13.1	87		P
Zinc	mg/Kg	75 - 125	238		11.5		8.70	2600	N	P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100
Matrix: Solid **Sample ID:** Q2101-01 **Client ID:** TP-1-MHEDUP
Percent Solids for Sample: 93.9 **Duplicate ID** Q2101-01DUP **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	2590		4220		48	*	P
Antimony	mg/Kg	20	2.98		0.35	J	158	*	P
Arsenic	mg/Kg	20	3.87		5.20		29	*	P
Barium	mg/Kg	20	7.03		11.8		51	*	P
Beryllium	mg/Kg	20	0.45		0.85		61	*	P
Cadmium	mg/Kg	20	0.12	J	0.47		118		P
Calcium	mg/Kg	20	350		464		28	*	P
Chromium	mg/Kg	20	5.25		9.21		55	*	P
Cobalt	mg/Kg	20	3.15		9.83		103	*	P
Copper	mg/Kg	20	8.35		12.2		37	*	P
Iron	mg/Kg	20	11500		18000		44	*	P
Lead	mg/Kg	20	6.52		5.88		10		P
Magnesium	mg/Kg	20	356		697		65	*	P
Manganese	mg/Kg	20	41.0		108		90	*	P
Nickel	mg/Kg	20	3.99		8.11		68	*	P
Potassium	mg/Kg	20	274		415		41	*	P
Selenium	mg/Kg	20	0.31	J	0.96	U	200.0		P
Silver	mg/Kg	20	0.44	U	0.48	U			P
Sodium	mg/Kg	20	107		96.4		10		P
Thallium	mg/Kg	20	1.75	U	1.92	U			P
Vanadium	mg/Kg	20	13.6		19.9		38	*	P
Zinc	mg/Kg	20	11.5		16.6		36	*	P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100
Matrix: Solid **Sample ID:** Q2101-01MS **Client ID:** TP-1-MHEMSD
Percent Solids for Sample: 93.9 **Duplicate ID** Q2101-01MSD **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4360		4650		6		P
Antimony	mg/Kg	20	17.8		15.1		16		P
Arsenic	mg/Kg	20	35.7		39.1		9		P
Barium	mg/Kg	20	17.3		18.6		7		P
Beryllium	mg/Kg	20	8.75		8.47		3		P
Cadmium	mg/Kg	20	9.71		10.1		4		P
Calcium	mg/Kg	20	469		485		3		P
Chromium	mg/Kg	20	26.1		25.5		2		P
Cobalt	mg/Kg	20	14.7		15.4		5		P
Copper	mg/Kg	20	23.3		24.3		4		P
Iron	mg/Kg	20	16100		18400		13		P
Lead	mg/Kg	20	49.3		52.7		7		P
Magnesium	mg/Kg	20	609		598		2		P
Manganese	mg/Kg	20	60.8		59.5		2		P
Nickel	mg/Kg	20	30.9		32.6		5		P
Potassium	mg/Kg	20	731		842		14		P
Selenium	mg/Kg	20	72.2		80.0		10		P
Silver	mg/Kg	20	2.70		3.48		25	*	P
Sodium	mg/Kg	20	204		236		15		P
Thallium	mg/Kg	20	88.0		95.4		8		P
Vanadium	mg/Kg	20	31.6		34.3		8		P
Zinc	mg/Kg	20	23.0		24.3		5		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2100</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2100</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2109-01</u>	Client ID:	<u>TP-02-MHFDUP</u>
Percent Solids for Sample:	87.3	Duplicate ID	Q2109-01DUP	Percent Solids for Spike Sample:	87.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.020		0.021		5		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2100</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2100</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2109-01MS</u>	Client ID:	<u>TP-02-MHFMSD</u>
Percent Solids for Sample:	87.3	Duplicate ID	Q2109-01MSD	Percent Solids for Spike Sample:	87.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.33		0.28		18		CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168117BS							
Aluminum	mg/Kg	100	96.9		97	80 - 120	P
Antimony	mg/Kg	40.0	42.8		107	80 - 120	P
Arsenic	mg/Kg	40.0	41.9		105	80 - 120	P
Barium	mg/Kg	10.0	9.64		96	80 - 120	P
Beryllium	mg/Kg	10.0	9.71		97	80 - 120	P
Cadmium	mg/Kg	10.0	10.3		103	80 - 120	P
Calcium	mg/Kg	50.0	50.6	J	101	80 - 120	P
Chromium	mg/Kg	20.0	20.9		104	80 - 120	P
Cobalt	mg/Kg	10.0	10.2		102	80 - 120	P
Copper	mg/Kg	15.0	16.2		108	80 - 120	P
Iron	mg/Kg	150	163		109	80 - 120	P
Lead	mg/Kg	50.0	50.1		100	80 - 120	P
Magnesium	mg/Kg	100	95.4	J	95	80 - 120	P
Manganese	mg/Kg	10.0	9.88		99	80 - 120	P
Nickel	mg/Kg	25.0	25.9		104	80 - 120	P
Potassium	mg/Kg	500	508		102	80 - 120	P
Selenium	mg/Kg	100	107		107	80 - 120	P
Silver	mg/Kg	3.8	3.80		100	80 - 120	P
Sodium	mg/Kg	150	149		99	80 - 120	P
Thallium	mg/Kg	100	105		105	80 - 120	P
Vanadium	mg/Kg	15.0	14.7		98	80 - 120	P
Zinc	mg/Kg	10.0	9.97		100	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2100
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168146BS Mercury	mg/Kg	0.26	0.25		94	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-1-MHEL

Lab Name: Chemtech Consulting Group

Contract: CAMP02

Lab Code: CHEM Lb No.: lb135969 Lab Sample ID : Q2101-01L SDG No.: Q2100

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		2590		2740		6		P
Antimony		2.98		2.79	J	6		P
Arsenic		3.87		4.09	J	6		P
Barium		7.03		7.51	J	7		P
Beryllium		0.45		0.53	J	16		P
Cadmium		0.12	J	1.31	U	100.0		P
Calcium		350		375	J	7		P
Chromium		5.25		5.83		11		P
Cobalt		3.15		3.06	J	3		P
Copper		8.35		9.24		11		P
Iron		11500		12200		6		P
Lead		6.52		6.28		4		P
Magnesium		356		381	J	7		P
Manganese		41.0		43.9		7		P
Nickel		3.99		3.92	J	2		P
Potassium		274		276	J	0		P
Selenium		0.31	J	4.36	U	100.0		P
Silver		0.44	U	2.18	U			P
Sodium		107		96.0	J	10		P
Thallium		1.75	U	8.73	U			P
Vanadium		13.6		14.7		8		P
Zinc		11.5		14.8		29		P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-02-MHFL

Lab Name: Chemtech Consulting Group **Contract:** CAMP02

Lab Code: CHEM **Lb No.:** lb135901 **Lab Sample ID :** Q2109-01L **SDG No.:** Q2100

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	0.020	0.068 U	100.0		CV

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2100 **Sas no.:** Q2100 **Sdg no.:** Q2100

Instrument id number: **Method:** **Run number:** LB135901

Start date: 05/23/2025 **End date:** 05/23/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1211	HG
S0.2	S0.2	1	1214	HG
S2.5	S2.5	1	1216	HG
S5	S5	1	1218	HG
S7.5	S7.5	1	1221	HG
S10	S10	1	1226	HG
ICV16	ICV16	1	1229	HG
ICB16	ICB16	1	1231	HG
CCV60	CCV60	1	1234	HG
CCB60	CCB60	1	1236	HG
CRA	CRA	1	1238	HG
CCV61	CCV61	1	1301	HG
CCB61	CCB61	1	1303	HG
CCV62	CCV62	1	1328	HG
CCB62	CCB62	1	1331	HG
PB168146BL	PB168146BL	1	1342	HG
PB168146BS	PB168146BS	1	1344	HG
Q2100-01	TP-16	1	1347	HG
Q2100-02	TP-22	1	1349	HG
Q2100-03	TP-21	1	1351	HG
Q2100-04	TP-45	1	1354	HG
CCV63	CCV63	1	1356	HG
CCB63	CCB63	1	1358	HG
Q2109-01DUP	TP-02-MHFDUP	1	1409	HG
Q2109-01MS	TP-02-MHFMS	1	1412	HG
Q2109-01MSD	TP-02-MHFMSD	1	1414	HG
CCV64	CCV64	1	1421	HG
CCB64	CCB64	1	1423	HG
Q2109-01L	TP-02-MHFL	5	1432	HG
CCV65	CCV65	1	1437	HG
CCB65	CCB65	1	1439	HG

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2100 **Sas no.:** Q2100 **Sdg no.:** Q2100

Instrument id number: **Method:** **Run number:** LB135969

Start date: 05/30/2025 **End date:** 05/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1416	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	1421	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	1425	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	1429	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	1433	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	1437	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	1513	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	1521	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	1526	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	1530	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	1534	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	1549	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	1602	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	1606	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	1652	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	1656	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168117BL	PB168117BL	1	1700	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168117BS	PB168117BS	1	1704	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2101-01DUP	TP-1-MHEDUP	1	1712	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2101-01L	TP-1-MHEL	5	1717	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2101-01MS	TP-1-MHEMS	1	1721	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2101-01MSD	TP-1-MHEMSD	1	1725	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2101-01A	TP-1-MHEA	1	1729	Co,Mg,Na,Sb,V,Zn
Q2100-01	TP-16	1	1733	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2100-02	TP-22	1	1737	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	1741	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	1745	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2100-03	TP-21	1	1750	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2100-04	TP-45	1	1754	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	1828	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	1832	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	1858	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	1902	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1930	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	1934	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2100

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2100

SAS No.: Q2100

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2100

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2100

SAS No.: Q2100

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 INTERELEMEN CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2100

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2100

SAS No.: Q2100

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2100

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2100

SAS No.: Q2100

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith SDG No.: Q2100
Contract: CAMP02 Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100
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

LAB CHRONICLE

OrderID:	Q2100	OrderDate:	5/20/2025 3:22:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	TP-16	SOIL			05/19/25			05/20/25
			Mercury	7471B		05/23/25	05/23/25	
			Metals ICP-TAL	6010D		05/21/25	05/30/25	
Q2100-02	TP-22	SOIL			05/19/25			05/20/25
			Mercury	7471B		05/23/25	05/23/25	
			Metals ICP-TAL	6010D		05/21/25	05/30/25	
Q2100-03	TP-21	SOIL			05/20/25			05/20/25
			Mercury	7471B		05/23/25	05/23/25	
			Metals ICP-TAL	6010D		05/21/25	05/30/25	
Q2100-04	TP-45	SOIL			05/20/25			05/20/25
			Mercury	7471B		05/23/25	05/23/25	
			Metals ICP-TAL	6010D		05/21/25	05/30/25	



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>CDM Smith</u>	SDG No.:	<u>Q2100</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2100</u>
		SAS No.:	<u>Q2100</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168117							
PB168117BL	PB168117BL	MB	SOLID	05/21/2025	2.00	100.0	100.00
PB168117BS	PB168117BS	LCS	SOLID	05/21/2025	2.00	100.0	100.00
Q2100-01	TP-16	SAM	SOLID	05/21/2025	2.31	100.0	88.40
Q2100-02	TP-22	SAM	SOLID	05/21/2025	2.23	100.0	84.00
Q2100-03	TP-21	SAM	SOLID	05/21/2025	2.18	100.0	78.20
Q2100-04	TP-45	SAM	SOLID	05/21/2025	2.18	100.0	76.20
Q2101-01DUP	TP-1-MHEDUP	DUP	SOLID	05/21/2025	2.22	100.0	93.90
Q2101-01MS	TP-1-MHEMS	MS	SOLID	05/21/2025	2.33	100.0	93.90
Q2101-01MSD	TP-1-MHEMSD	MSD	SOLID	05/21/2025	2.12	100.0	93.90

Metals
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SAMPLE PREPARATION SUMMARY

Client:	<u>CDM Smith</u>	SDG No.:	<u>Q2100</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2100</u>
		SAS No.:	<u>Q2100</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168146							
PB168146BL	PB168146BL	MB	SOLID	05/23/2025	0.52	35.0	100.00
PB168146BS	PB168146BS	LCS	SOLID	05/23/2025	0.54	35.0	100.00
Q2100-01	TP-16	SAM	SOLID	05/23/2025	0.60	35.0	88.40
Q2100-02	TP-22	SAM	SOLID	05/23/2025	0.57	35.0	84.00
Q2100-03	TP-21	SAM	SOLID	05/23/2025	0.52	35.0	78.20
Q2100-04	TP-45	SAM	SOLID	05/23/2025	0.52	35.0	76.20
Q2109-01DUP	TP-02-MHFDUP	DUP	SOLID	05/23/2025	0.56	35.0	87.30
Q2109-01MS	TP-02-MHFMS	MS	SOLID	05/23/2025	0.54	35.0	87.30
Q2109-01MSD	TP-02-MHFMSD	MSD	SOLID	05/23/2025	0.54	35.0	87.30

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135901

Review By	MOHAN	Review On	5/28/2025 12:39:00 PM
Supervise By	jaswal	Supervise On	5/28/2025 1:44:45 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85749,MP85750,MP85751,MP85752,MP85753,MP85754		
ICV Standard	MP85755		
CCV Standard	MP85757		
ICSA Standard			
CRI Standard	MP85759		
LCS Standard			
Chk Standard	MP85756,MP85758,MP85760,MP85762		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/23/25 12:11		MOHAN	OK
2	S0.2	S0.2	CAL2	05/23/25 12:14		MOHAN	OK
3	S2.5	S2.5	CAL3	05/23/25 12:16		MOHAN	OK
4	S5	S5	CAL4	05/23/25 12:18		MOHAN	OK
5	S7.5	S7.5	CAL5	05/23/25 12:21		MOHAN	OK
6	S10	S10	CAL6	05/23/25 12:26		MOHAN	OK
7	ICV16	ICV16	ICV	05/23/25 12:29		MOHAN	OK
8	ICB16	ICB16	ICB	05/23/25 12:31		MOHAN	OK
9	CCV60	CCV60	CCV	05/23/25 12:34		MOHAN	OK
10	CCB60	CCB60	CCB	05/23/25 12:36		MOHAN	OK
11	CRA	CRA	CRDL	05/23/25 12:38		MOHAN	OK
12	HighStd	HighStd	HIGH STD	05/23/25 12:40		MOHAN	OK
13	ChkStd	ChkStd	SAM	05/23/25 12:43		MOHAN	OK
14	PB168145BS	PB168145BS	LCS	05/23/25 12:47		MOHAN	OK
15	Q2084-01	OR-640-COMP-66	SAM	05/23/25 12:50		MOHAN	OK
16	Q2087-01	NB-07-05202025	SAM	05/23/25 12:52		MOHAN	OK
17	Q2087-03	NB-08-05202025	SAM	05/23/25 12:54		MOHAN	OK
18	Q2087-03DUP	NB-08-05202025DUP	DUP	05/23/25 12:57		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135901

Review By	MOHAN	Review On	5/28/2025 12:39:00 PM
Supervise By	jaswal	Supervise On	5/28/2025 1:44:45 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85749,MP85750,MP85751,MP85752,MP85753,MP85754		
ICV Standard	MP85755		
CCV Standard	MP85757		
ICSA Standard			
CRI Standard	MP85759		
LCS Standard			
Chk Standard	MP85756,MP85758,MP85760,MP85762		

19	Q2087-03MS	NB-08-05202025MS	MS	05/23/25 12:59		MOHAN	OK
20	CCV61	CCV61	CCV	05/23/25 13:01		MOHAN	OK
21	CCB61	CCB61	CCB	05/23/25 13:03		MOHAN	OK
22	Q2087-03MSD	NB-08-05202025MSD	MSD	05/23/25 13:06		MOHAN	OK
23	Q2092-01	VNJ-202	SAM	05/23/25 13:08		MOHAN	OK
24	Q2093-01	SOIL-DRUM	SAM	05/23/25 13:10		MOHAN	OK
25	Q2095-01	WCS-TP1	SAM	05/23/25 13:13		MOHAN	OK
26	Q2095-05	WCS-TP2	SAM	05/23/25 13:15		MOHAN	OK
27	Q2097-01	ETGI-357	SAM	05/23/25 13:17		MOHAN	OK
28	Q2097-03	RBR200044	SAM	05/23/25 13:19		MOHAN	OK
29	Q2097-05	RBR251675	SAM	05/23/25 13:22		MOHAN	OK
30	Q2097-07	VNJ-244	SAM	05/23/25 13:24		MOHAN	OK
31	Q2097-09	ETGI-290	SAM	05/23/25 13:26		MOHAN	OK
32	CCV62	CCV62	CCV	05/23/25 13:28		MOHAN	OK
33	CCB62	CCB62	CCB	05/23/25 13:31		MOHAN	OK
34	Q2097-11	RT3419	SAM	05/23/25 13:33		MOHAN	OK
35	Q2097-13	RBR251372	SAM	05/23/25 13:35		MOHAN	OK
36	Q2097-15	72-12013	SAM	05/23/25 13:38		MOHAN	OK
37	Q2097-17	RT-3888	SAM	05/23/25 13:40		MOHAN	OK
38	PB168146BL	PB168146BL	MB	05/23/25 13:42		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135901

Review By	MOHAN	Review On	5/28/2025 12:39:00 PM
Supervise By	jaswal	Supervise On	5/28/2025 1:44:45 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85749,MP85750,MP85751,MP85752,MP85753,MP85754		
ICV Standard	MP85755		
CCV Standard	MP85757		
ICSA Standard			
CRI Standard	MP85759		
LCS Standard			
Chk Standard	MP85756,MP85758,MP85760,MP85762		

39	PB168146BS	PB168146BS	LCS	05/23/25 13:44		MOHAN	OK
40	Q2100-01	TP-16	SAM	05/23/25 13:47		MOHAN	OK
41	Q2100-02	TP-22	SAM	05/23/25 13:49		MOHAN	OK
42	Q2100-03	TP-21	SAM	05/23/25 13:51		MOHAN	OK
43	Q2100-04	TP-45	SAM	05/23/25 13:54		MOHAN	OK
44	CCV63	CCV63	CCV	05/23/25 13:56		MOHAN	OK
45	CCB63	CCB63	CCB	05/23/25 13:58		MOHAN	OK
46	Q2101-01	TP-1-MHE	SAM	05/23/25 14:00		MOHAN	OK
47	Q2102-01	LAW-25-0077	SAM	05/23/25 14:03		MOHAN	OK
48	Q2104-01	TR-06-052125	SAM	05/23/25 14:05		MOHAN	OK
49	Q2109-01	TP-02-MHF	SAM	05/23/25 14:07		MOHAN	OK
50	Q2109-01DUP	TP-02-MHFDUP	DUP	05/23/25 14:09		MOHAN	OK
51	Q2109-01MS	TP-02-MHFMS	MS	05/23/25 14:12		MOHAN	OK
52	Q2109-01MSD	TP-02-MHFMSD	MSD	05/23/25 14:14		MOHAN	OK
53	Q2112-01	EO-03-05222025	SAM	05/23/25 14:16		MOHAN	OK
54	Q2113-01	HD-02-05222025	SAM	05/23/25 14:19		MOHAN	OK
55	CCV64	CCV64	CCV	05/23/25 14:21		MOHAN	OK
56	CCB64	CCB64	CCB	05/23/25 14:23		MOHAN	OK
57	PB168145BL	PB168145BL	MB	05/23/25 14:26		MOHAN	OK
58	Q2087-03L	NB-08-05202025L	SD	05/23/25 14:28		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135901

Review By	MOHAN	Review On	5/28/2025 12:39:00 PM
Supervise By	jaswal	Supervise On	5/28/2025 1:44:45 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85749,MP85750,MP85751,MP85752,MP85753,MP85754		
ICV Standard	MP85755		
CCV Standard	MP85757		
ICSA Standard			
CRI Standard	MP85759		
LCS Standard			
Chk Standard	MP85756,MP85758,MP85760,MP85762		

59	Q2087-03A	NB-08-05202025A	PS	05/23/25 14:30		MOHAN	OK
60	Q2109-01L	TP-02-MHFL	SD	05/23/25 14:32		MOHAN	OK
61	Q2109-01A	TP-02-MHFA	PS	05/23/25 14:35		MOHAN	OK
62	CCV65	CCV65	CCV	05/23/25 14:37		MOHAN	OK
63	CCB65	CCB65	CCB	05/23/25 14:39		MOHAN	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135969

Review By	Janvi	Review On	6/2/2025 2:55:11 PM
Supervise By	jaswal	Supervise On	6/3/2025 6:07:18 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/30/25 14:16		Jaswal	OK
2	S1	S1	CAL2	05/30/25 14:21		Jaswal	OK
3	S2	S2	CAL3	05/30/25 14:25		Jaswal	OK
4	S3	S3	CAL4	05/30/25 14:29		Jaswal	OK
5	S4	S4	CAL5	05/30/25 14:33		Jaswal	OK
6	S5	S5	CAL6	05/30/25 14:37		Jaswal	OK
7	ICV01	ICV01	ICV	05/30/25 15:13		Jaswal	OK
8	LLICV01	LLICV01	LLICV	05/30/25 15:21		Jaswal	OK
9	ICB01	ICB01	ICB	05/30/25 15:26		Jaswal	OK
10	CRI01	CRI01	CRDL	05/30/25 15:30		Jaswal	OK
11	ICSA01	ICSA01	ICSA	05/30/25 15:34		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	05/30/25 15:49		Jaswal	OK
13	ICSADL	ICSADL	ICSA	05/30/25 15:53		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	05/30/25 15:58		Jaswal	OK
15	CCV01	CCV01	CCV	05/30/25 16:02		Jaswal	OK
16	CCB01	CCB01	CCB	05/30/25 16:06		Jaswal	OK
17	Q2127-11	COMP-2	SAM	05/30/25 16:10		Jaswal	OK
18	Q2127-11DUP	COMP-2DUP	DUP	05/30/25 16:15		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135969

Review By	Janvi	Review On	6/2/2025 2:55:11 PM
Supervise By	jaswal	Supervise On	6/3/2025 6:07:18 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

19	Q2127-11L	COMP-2L	SD	05/30/25 16:19	Jaswal	OK
20	Q2127-11MS	COMP-2MS	MS	05/30/25 16:23	Jaswal	OK
21	Q2127-11MSD	COMP-2MSD	MSD	05/30/25 16:27	Jaswal	OK
22	Q2127-11A	COMP-2A	PS	05/30/25 16:31	Jaswal	OK
23	PB168179BL	PB168179BL	MB	05/30/25 16:35	Jaswal	OK
24	PB168179BS	PB168179BS	LCS	05/30/25 16:39	Jaswal	OK
25	PB168167BL	PB168167BL	MB	05/30/25 16:43	Jaswal	OK
26	PB168167BS	PB168167BS	LCS	05/30/25 16:47	Jaswal	OK
27	CCV02	CCV02	CCV	05/30/25 16:52	Jaswal	OK
28	CCB02	CCB02	CCB	05/30/25 16:56	Jaswal	OK
29	PB168117BL	PB168117BL	MB	05/30/25 17:00	Jaswal	OK
30	PB168117BS	PB168117BS	LCS	05/30/25 17:04	Jaswal	OK
31	Q2101-01	TP-1-MHE	SAM	05/30/25 17:08	Jaswal	OK
32	Q2101-01DUP	TP-1-MHEDUP	DUP	05/30/25 17:12	Jaswal	OK
33	Q2101-01L	TP-1-MHEL	SD	05/30/25 17:17	Jaswal	OK
34	Q2101-01MS	TP-1-MHEMS	MS	05/30/25 17:21	Jaswal	OK
35	Q2101-01MSD	TP-1-MHEMSD	MSD	05/30/25 17:25	Jaswal	OK
36	Q2101-01A	TP-1-MHEA	PS	05/30/25 17:29	Jaswal	OK
37	Q2100-01	TP-16	SAM	05/30/25 17:33	Jaswal	OK
38	Q2100-02	TP-22	SAM	05/30/25 17:37	Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135969

Review By	Janvi	Review On	6/2/2025 2:55:11 PM
Supervise By	jaswal	Supervise On	6/3/2025 6:07:18 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

39	CCV03	CCV03	CCV	05/30/25 17:41		Jaswal	OK
40	CCB03	CCB03	CCB	05/30/25 17:45		Jaswal	OK
41	Q2100-03	TP-21	SAM	05/30/25 17:50		Jaswal	OK
42	Q2100-04	TP-45	SAM	05/30/25 17:54		Jaswal	OK
43	Q2130-01	TP-3	SAM	05/30/25 17:58		Jaswal	OK
44	Q2136-01	OR-646-COMP-52	SAM	05/30/25 18:02		Jaswal	OK
45	Q2137-01	MOO-25-0151	SAM	05/30/25 18:07	Ba High	Jaswal	Dilution
46	Q2138-01	SMALL-CONCRETE-	SAM	05/30/25 18:11		Jaswal	OK
47	Q2139-01	BELL-25-0010	SAM	05/30/25 18:15		Jaswal	OK
48	Q2141-01	VNJ-215	SAM	05/30/25 18:19		Jaswal	OK
49	PB168199BL	PB168199BL	MB	05/30/25 18:24		Jaswal	OK
50	CCV04	CCV04	CCV	05/30/25 18:28		Jaswal	OK
51	CCB04	CCB04	CCB	05/30/25 18:32		Jaswal	OK
52	Q1872-10	HW0425-PT-MET-SO	SAM	05/30/25 18:37	Cd High	Jaswal	Dilution
53	Q1872-10RE	HW0425-PT-MET-SO	SAM	05/30/25 18:41	Not Use	Jaswal	Not Ok
54	Q1872-10DL	HW0425-PT-MET-SO	SAM	05/30/25 18:46	5X For Cd	Jaswal	Confirms
55	Q1872-10DLRE	HW0425-PT-MET-SO	SAM	05/30/25 18:50	Not Use	Jaswal	Not Ok
56	Q2137-01DL	MOO-25-0151DL	SAM	05/30/25 18:54	5X For Ba	Jaswal	Confirms
57	CCV05	CCV05	CCV	05/30/25 18:58		Jaswal	OK
58	CCB05	CCB05	CCB	05/30/25 19:02		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135969

Review By	Janvi	Review On	6/2/2025 2:55:11 PM
Supervise By	jaswal	Supervise On	6/3/2025 6:07:18 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

59	PB168199BS	PB168199BS	LCS	05/30/25 19:18		Jaswal	OK
60	PB167748BL	PB167748BL	MB	05/30/25 19:22		Jaswal	OK
61	PB167748BS	PB167748BS	LCS	05/30/25 19:26		Jaswal	OK
62	CCV06	CCV06	CCV	05/30/25 19:30		Jaswal	OK
63	CCB06	CCB06	CCB	05/30/25 19:34		Jaswal	OK

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pipette ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

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

Start Digest Date: 05/21/2025 Time : 14:05 Temp : 96 °C

End Digest Date: 05/21/2025 Time : 16:10 Temp : 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: *SLY*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6005
LFS-2	1.00	M6016
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
CONC: HNO3	5.00	M6158
1:1 HNO3	10.00	MP84041
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#2 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/21/25 17:10	<i>SLY-met dig</i>	<i>[Signature]</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB168117BL	PBS117	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB168117BS	LCS117	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6005,M6016	2
Q2100-01	TP-16	N/A	2.31	100	Brown	Yellow	Medium	N/A	N/A	3
Q2100-02	TP-22	N/A	2.23	100	Brown	Yellow	Medium	N/A	N/A	4
Q2100-03	TP-21	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	5
Q2100-04	TP-45	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	6
Q2101-01	TP-1-MHE	N/A	2.44	100	Brown	Yellow	Medium	N/A	N/A	7
Q2101-01MS	TP-1-MHEMS	N/A	2.33	100	Brown	Yellow	Medium	N/A	M6005,M6016	9
Q2101-01MSD	TP-1-MHEMSD	N/A	2.12	100	Brown	Yellow	Medium	N/A	M6005,M6016	10
Q2101-01DUP	TP-1-MHEDUP	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	8
Q2102-01	LAW-25-0077	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	11
Q2104-01	TR-06-052125	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	12

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pipette ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

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

Start Digest Date: 05/23/2025 Time : 09:50 Temp : 94 °C

End Digest Date: 05/23/2025 Time : 10:20 Temp : 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: *MB*

Supervisor Signature: *12*

Temp : 1. 94°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85755
CCV	30mL	MP85757
CRA	30mL	MP85759
Blank Spike	0.48mL	MP85748
Matrix Spike	0.48mL	MP85748

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP85761
KMnO4 (5%)	4.5mL	MP85241
Hydroxylamine HCL (12%)	2.0mL	MP85243
PTFE Boiling Stones	-----	M4583
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85749
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85750
2.5 ppb	S2.5	30mL	MP85751
5.0 ppb	S5.0	30mL	MP85752
7.5 ppb	S7.5	30mL	MP85753
10.0 ppb	S10.0	30mL	MP85754
ICV	ICV	30mL	MP85755
ICB	ICB	30mL	MP85756
CCV	CCV	30mL	MP85757
CCB	CCB	30mL	MP85758
CRI	CRI	30mL	MP85759
CHK STD	CHK STD	30mL	MP85760

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/23/25 @ 10:15	<i>MB - MS-LIS</i>	<i>MB - MS-LIS</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB168146BL	PBS146	0.52	35	NA	N/A	3-22
PB168146BS	LCS146	0.54	35	NA	MP85748	23
Q2100-01	TP-16	0.60	35	NA	N/A	24
Q2100-02	TP-22	0.57	35	NA	N/A	25
Q2100-03	TP-21	0.52	35	NA	N/A	26
Q2100-04	TP-45	0.52	35	NA	N/A	27
Q2101-01	TP-1-MHE	0.51	35	NA	N/A	28
Q2102-01	LAW-25-0077	0.57	35	NA	N/A	29
Q2104-01	TR-06-052125	0.56	35	NA	N/A	30
Q2109-01	TP-02-MHF	0.59	35	NA	N/A	31
Q2109-01DUP	TP-02-MHFDUP	0.56	35	NA	N/A	32
Q2109-01MS	TP-02-MHFMS	0.54	35	NA	MP85748	33
Q2109-01MSD	TP-02-MHFMSD	0.54	35	NA	MP85748	34
Q2112-01	EO-03-05222025	0.55	35	NA	N/A	35
Q2113-01	HD-02-05222025	0.52	35	NA	N/A	36