

Hit Summary Sheet SW-846

SDG No.: Q2010 **Order ID:** Q2010
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-10								
Q2010-01	TP-10	SOIL	Aluminum	5560		0.85	5.03	mg/Kg
Q2010-01	TP-10	SOIL	Arsenic	6.09		0.19	1.01	mg/Kg
Q2010-01	TP-10	SOIL	Barium	23.1		0.74	5.03	mg/Kg
Q2010-01	TP-10	SOIL	Beryllium	0.71		0.025	0.30	mg/Kg
Q2010-01	TP-10	SOIL	Calcium	5780		11.2	101	mg/Kg
Q2010-01	TP-10	SOIL	Chromium	18.7		0.047	0.50	mg/Kg
Q2010-01	TP-10	SOIL	Cobalt	3.32		0.10	1.51	mg/Kg
Q2010-01	TP-10	SOIL	Copper	13.1		0.22	1.01	mg/Kg
Q2010-01	TP-10	SOIL	Iron	20600		4.02	5.03	mg/Kg
Q2010-01	TP-10	SOIL	Lead	18.3		0.13	0.60	mg/Kg
Q2010-01	TP-10	SOIL	Magnesium	1500		12.1	101	mg/Kg
Q2010-01	TP-10	SOIL	Manganese	66.3		0.14	1.01	mg/Kg
Q2010-01	TP-10	SOIL	Mercury	0.027		0.0080	0.014	mg/Kg
Q2010-01	TP-10	SOIL	Nickel	5.39		0.13	2.01	mg/Kg
Q2010-01	TP-10	SOIL	Potassium	354		27.9	101	mg/Kg
Q2010-01	TP-10	SOIL	Selenium	1.71		0.26	1.01	mg/Kg
Q2010-01	TP-10	SOIL	Sodium	141		17.9	101	mg/Kg
Q2010-01	TP-10	SOIL	Thallium	1.19	J	0.23	2.01	mg/Kg
Q2010-01	TP-10	SOIL	Vanadium	22.0		0.25	2.01	mg/Kg
Q2010-01	TP-10	SOIL	Zinc	24.3		0.23	2.01	mg/Kg
Client ID : TP-13								
Q2010-02	TP-13	SOIL	Aluminum	1420		0.95	5.67	mg/Kg
Q2010-02	TP-13	SOIL	Arsenic	2.01		0.22	1.13	mg/Kg
Q2010-02	TP-13	SOIL	Barium	88.5		0.83	5.67	mg/Kg
Q2010-02	TP-13	SOIL	Beryllium	0.66		0.028	0.34	mg/Kg
Q2010-02	TP-13	SOIL	Calcium	736		12.6	113	mg/Kg
Q2010-02	TP-13	SOIL	Chromium	3.18		0.053	0.57	mg/Kg
Q2010-02	TP-13	SOIL	Cobalt	11.6		0.11	1.70	mg/Kg
Q2010-02	TP-13	SOIL	Copper	8.79		0.25	1.13	mg/Kg
Q2010-02	TP-13	SOIL	Iron	52100		4.52	5.67	mg/Kg
Q2010-02	TP-13	SOIL	Lead	3.70		0.15	0.68	mg/Kg
Q2010-02	TP-13	SOIL	Magnesium	36.5	J	13.6	113	mg/Kg
Q2010-02	TP-13	SOIL	Manganese	1880		0.16	1.13	mg/Kg
Q2010-02	TP-13	SOIL	Mercury	0.029		0.0080	0.015	mg/Kg
Q2010-02	TP-13	SOIL	Nickel	4.50		0.15	2.27	mg/Kg
Q2010-02	TP-13	SOIL	Potassium	86.9	J	31.4	113	mg/Kg
Q2010-02	TP-13	SOIL	Selenium	4.21		0.30	1.13	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2010-02	TP-13	SOIL	Sodium	180		20.2	113	mg/Kg
Q2010-02	TP-13	SOIL	Thallium	4.13		0.26	2.27	mg/Kg
Q2010-02	TP-13	SOIL	Vanadium	4.94		0.28	2.27	mg/Kg
Q2010-02	TP-13	SOIL	Zinc	5.63		0.26	2.27	mg/Kg
Client ID : TP-14								
Q2010-03	TP-14	SOIL	Aluminum	3690		0.98	5.85	mg/Kg
Q2010-03	TP-14	SOIL	Arsenic	4.94		0.22	1.17	mg/Kg
Q2010-03	TP-14	SOIL	Barium	13.7		0.85	5.85	mg/Kg
Q2010-03	TP-14	SOIL	Beryllium	0.64		0.029	0.35	mg/Kg
Q2010-03	TP-14	SOIL	Calcium	468		13.0	117	mg/Kg
Q2010-03	TP-14	SOIL	Chromium	19.5		0.055	0.59	mg/Kg
Q2010-03	TP-14	SOIL	Cobalt	1.73	J	0.12	1.75	mg/Kg
Q2010-03	TP-14	SOIL	Copper	19.8		0.26	1.17	mg/Kg
Q2010-03	TP-14	SOIL	Iron	24600		4.66	5.85	mg/Kg
Q2010-03	TP-14	SOIL	Lead	10.7		0.15	0.70	mg/Kg
Q2010-03	TP-14	SOIL	Magnesium	308		14.0	117	mg/Kg
Q2010-03	TP-14	SOIL	Manganese	45.0		0.16	1.17	mg/Kg
Q2010-03	TP-14	SOIL	Mercury	0.021		0.0090	0.016	mg/Kg
Q2010-03	TP-14	SOIL	Nickel	2.19	J	0.15	2.34	mg/Kg
Q2010-03	TP-14	SOIL	Potassium	385		32.4	117	mg/Kg
Q2010-03	TP-14	SOIL	Selenium	1.90		0.30	1.17	mg/Kg
Q2010-03	TP-14	SOIL	Sodium	134		20.8	117	mg/Kg
Q2010-03	TP-14	SOIL	Thallium	1.95	J	0.27	2.34	mg/Kg
Q2010-03	TP-14	SOIL	Vanadium	22.7		0.29	2.34	mg/Kg
Q2010-03	TP-14	SOIL	Zinc	18.0		0.27	2.34	mg/Kg
Client ID : TP-17								
Q2010-04	TP-17	SOIL	Aluminum	1840		0.92	5.45	mg/Kg
Q2010-04	TP-17	SOIL	Arsenic	2.77		0.21	1.09	mg/Kg
Q2010-04	TP-17	SOIL	Barium	61.7		0.80	5.45	mg/Kg
Q2010-04	TP-17	SOIL	Beryllium	0.45		0.027	0.33	mg/Kg
Q2010-04	TP-17	SOIL	Calcium	989		12.1	109	mg/Kg
Q2010-04	TP-17	SOIL	Chromium	14.4		0.051	0.55	mg/Kg
Q2010-04	TP-17	SOIL	Cobalt	1.63	J	0.11	1.64	mg/Kg
Q2010-04	TP-17	SOIL	Copper	18.6		0.24	1.09	mg/Kg
Q2010-04	TP-17	SOIL	Iron	21000		4.35	5.45	mg/Kg
Q2010-04	TP-17	SOIL	Lead	7.32		0.14	0.65	mg/Kg
Q2010-04	TP-17	SOIL	Magnesium	141		13.1	109	mg/Kg
Q2010-04	TP-17	SOIL	Manganese	136		0.15	1.09	mg/Kg
Q2010-04	TP-17	SOIL	Mercury	0.014	J	0.0090	0.017	mg/Kg

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Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2010-04	TP-17	SOIL	Nickel	1.09	J	0.14	2.18	mg/Kg
Q2010-04	TP-17	SOIL	Potassium	369		30.2	109	mg/Kg
Q2010-04	TP-17	SOIL	Selenium	1.59		0.28	1.09	mg/Kg
Q2010-04	TP-17	SOIL	Sodium	122		19.4	109	mg/Kg
Q2010-04	TP-17	SOIL	Thallium	0.65	J	0.25	2.18	mg/Kg
Q2010-04	TP-17	SOIL	Vanadium	114		0.27	2.18	mg/Kg
Q2010-04	TP-17	SOIL	Zinc	2.73		0.25	2.18	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-10	SDG No.:	Q2010
Lab Sample ID:	Q2010-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	93.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5560		1	0.85	5.03	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.52	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-38-2	Arsenic	6.09		1	0.19	1.01	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-39-3	Barium	23.1		1	0.74	5.03	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-41-7	Beryllium	0.71		1	0.025	0.30	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-70-2	Calcium	5780	*	1	11.2	101	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-47-3	Chromium	18.7		1	0.047	0.50	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-48-4	Cobalt	3.32		1	0.10	1.51	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-50-8	Copper	13.1		1	0.22	1.01	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7439-89-6	Iron	20600		1	4.02	5.03	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7439-92-1	Lead	18.3		1	0.13	0.60	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7439-95-4	Magnesium	1500		1	12.1	101	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7439-96-5	Manganese	66.3		1	0.14	1.01	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7439-97-6	Mercury	0.027		1	0.0080	0.014	mg/Kg	05/13/25 08:35	05/13/25 12:26	7471B	
7440-02-0	Nickel	5.39		1	0.13	2.01	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-09-7	Potassium	354		1	27.9	101	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7782-49-2	Selenium	1.71		1	0.26	1.01	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.50	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-23-5	Sodium	141	N	1	17.9	101	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-28-0	Thallium	1.19	J	1	0.23	2.01	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-62-2	Vanadium	22.0		1	0.25	2.01	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050
7440-66-6	Zinc	24.3		1	0.23	2.01	mg/Kg	05/13/25 10:05	05/16/25 14:28	6010D	SW3050

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-13	SDG No.:	Q2010
Lab Sample ID:	Q2010-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	84.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	1420		1	0.95	5.67	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-36-0	Antimony	0.25	UN	1	0.25	2.83	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-38-2	Arsenic	2.01		1	0.22	1.13	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-39-3	Barium	88.5		1	0.83	5.67	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-41-7	Beryllium	0.66		1	0.028	0.34	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-43-9	Cadmium	0.027	U	1	0.027	0.34	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-70-2	Calcium	736	*	1	12.6	113	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-47-3	Chromium	3.18		1	0.053	0.57	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-48-4	Cobalt	11.6		1	0.11	1.70	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-50-8	Copper	8.79		1	0.25	1.13	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7439-89-6	Iron	52100		1	4.52	5.67	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7439-92-1	Lead	3.70		1	0.15	0.68	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7439-95-4	Magnesium	36.5	J	1	13.6	113	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7439-96-5	Manganese	1880		1	0.16	1.13	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7439-97-6	Mercury	0.029		1	0.0080	0.015	mg/Kg	05/13/25 08:35	05/13/25 12:28	7471B	
7440-02-0	Nickel	4.50		1	0.15	2.27	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-09-7	Potassium	86.9	J	1	31.4	113	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7782-49-2	Selenium	4.21		1	0.30	1.13	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-22-4	Silver	0.14	U	1	0.14	0.57	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-23-5	Sodium	180	N	1	20.2	113	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-28-0	Thallium	4.13		1	0.26	2.27	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-62-2	Vanadium	4.94		1	0.28	2.27	mg/Kg	05/13/25 10:05	05/16/25 14:44	6010D	SW3050
7440-66-6	Zinc	5.63		1	0.26	2.27	mg/Kg	05/13/25 10:05	05/16/25 14:44	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:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-14	SDG No.:	Q2010
Lab Sample ID:	Q2010-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	80.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3690		1	0.98	5.85	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-36-0	Antimony	0.26	UN	1	0.26	2.92	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-38-2	Arsenic	4.94		1	0.22	1.17	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-39-3	Barium	13.7		1	0.85	5.85	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-41-7	Beryllium	0.64		1	0.029	0.35	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-43-9	Cadmium	0.028	U	1	0.028	0.35	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-70-2	Calcium	468	*	1	13.0	117	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-47-3	Chromium	19.5		1	0.055	0.59	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-48-4	Cobalt	1.73	J	1	0.12	1.75	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-50-8	Copper	19.8		1	0.26	1.17	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7439-89-6	Iron	24600		1	4.66	5.85	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7439-92-1	Lead	10.7		1	0.15	0.70	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7439-95-4	Magnesium	308		1	14.0	117	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7439-96-5	Manganese	45.0		1	0.16	1.17	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7439-97-6	Mercury	0.021		1	0.0090	0.016	mg/Kg	05/13/25 08:35	05/13/25 12:30	7471B	
7440-02-0	Nickel	2.19	J	1	0.15	2.34	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-09-7	Potassium	385		1	32.4	117	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7782-49-2	Selenium	1.90		1	0.30	1.17	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-22-4	Silver	0.14	U	1	0.14	0.59	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-23-5	Sodium	134	N	1	20.8	117	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-28-0	Thallium	1.95	J	1	0.27	2.34	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-62-2	Vanadium	22.7		1	0.29	2.34	mg/Kg	05/13/25 10:05	05/16/25 14:49	6010D	SW3050
7440-66-6	Zinc	18.0		1	0.27	2.34	mg/Kg	05/13/25 10:05	05/16/25 14:49	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:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-17	SDG No.:	Q2010
Lab Sample ID:	Q2010-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	77.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	1840		1	0.92	5.45	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.73	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-38-2	Arsenic	2.77		1	0.21	1.09	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-39-3	Barium	61.7		1	0.80	5.45	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-41-7	Beryllium	0.45		1	0.027	0.33	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.33	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-70-2	Calcium	989	*	1	12.1	109	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-47-3	Chromium	14.4		1	0.051	0.55	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-48-4	Cobalt	1.63	J	1	0.11	1.64	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-50-8	Copper	18.6		1	0.24	1.09	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7439-89-6	Iron	21000		1	4.35	5.45	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7439-92-1	Lead	7.32		1	0.14	0.65	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7439-95-4	Magnesium	141		1	13.1	109	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7439-96-5	Manganese	136		1	0.15	1.09	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7439-97-6	Mercury	0.014	J	1	0.0090	0.017	mg/Kg	05/13/25 08:35	05/13/25 12:32	7471B	
7440-02-0	Nickel	1.09	J	1	0.14	2.18	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-09-7	Potassium	369		1	30.2	109	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7782-49-2	Selenium	1.59		1	0.28	1.09	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.55	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-23-5	Sodium	122	N	1	19.4	109	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-28-0	Thallium	0.65	J	1	0.25	2.18	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-62-2	Vanadium	114		1	0.27	2.18	mg/Kg	05/13/25 10:05	05/16/25 14:53	6010D	SW3050
7440-66-6	Zinc	2.73		1	0.25	2.18	mg/Kg	05/13/25 10:05	05/16/25 14:53	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

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	CDM Smith				SDG No.:	Q2010				
Contract:	CAMP02	Lab Code:	CHEM		Case No.:	Q2010		SAS No.:	Q2010	
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number	
ICB07	Mercury	0.20	+/-0.20	U	0.20	CV	05/13/2025	11:09	LB135751	

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB17	Mercury	0.20	+/-0.20	U	0.20	CV	05/13/2025	11:14	LB135751
CCB18	Mercury	0.20	+/-0.20	U	0.20	CV	05/13/2025	11:46	LB135751
CCB19	Mercury	0.20	+/-0.20	U	0.20	CV	05/13/2025	12:19	LB135751
CCB20	Mercury	0.20	+/-0.20	U	0.20	CV	05/13/2025	12:46	LB135751
CCB21	Mercury	0.20	+/-0.20	U	0.20	CV	05/13/2025	13:19	LB135751

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010

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	05/16/2025	13:05	LB135802
	Antimony	50.0	+/-50.0	U	50.0	P	05/16/2025	13:05	LB135802
	Arsenic	20.0	+/-20.0	U	20.0	P	05/16/2025	13:05	LB135802
	Barium	100	+/-100	U	100	P	05/16/2025	13:05	LB135802
	Beryllium	6.00	+/-6.00	U	6.00	P	05/16/2025	13:05	LB135802
	Cadmium	6.00	+/-6.00	U	6.00	P	05/16/2025	13:05	LB135802
	Calcium	2000	+/-2000	U	2000	P	05/16/2025	13:05	LB135802
	Chromium	10.0	+/-10.0	U	10.0	P	05/16/2025	13:05	LB135802
	Cobalt	30.0	+/-30.0	U	30.0	P	05/16/2025	13:05	LB135802
	Copper	20.0	+/-20.0	U	20.0	P	05/16/2025	13:05	LB135802
	Iron	100	+/-100	U	100	P	05/16/2025	13:05	LB135802
	Lead	12.0	+/-12.0	U	12.0	P	05/16/2025	13:05	LB135802
	Magnesium	2000	+/-2000	U	2000	P	05/16/2025	13:05	LB135802
	Manganese	20.0	+/-20.0	U	20.0	P	05/16/2025	13:05	LB135802
	Nickel	40.0	+/-40.0	U	40.0	P	05/16/2025	13:05	LB135802
	Potassium	2000	+/-2000	U	2000	P	05/16/2025	13:05	LB135802
	Selenium	20.0	+/-20.0	U	20.0	P	05/16/2025	13:05	LB135802
	Silver	10.0	+/-10.0	U	10.0	P	05/16/2025	13:05	LB135802
	Sodium	2000	+/-2000	U	2000	P	05/16/2025	13:05	LB135802
	Thallium	40.0	+/-40.0	U	40.0	P	05/16/2025	13:05	LB135802
	Vanadium	40.0	+/-40.0	U	40.0	P	05/16/2025	13:05	LB135802
	Zinc	40.0	+/-40.0	U	40.0	P	05/16/2025	13:05	LB135802

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2010							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2010	SAS No.: Q2010						
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	05/16/2025	13:39	LB135802
	Antimony	50.0	+/-50.0	U	50.0	P	05/16/2025	13:39	LB135802
	Arsenic	20.0	+/-20.0	U	20.0	P	05/16/2025	13:39	LB135802
	Barium	100	+/-100	U	100	P	05/16/2025	13:39	LB135802
	Beryllium	6.00	+/-6.00	U	6.00	P	05/16/2025	13:39	LB135802
	Cadmium	6.00	+/-6.00	U	6.00	P	05/16/2025	13:39	LB135802
	Calcium	2000	+/-2000	U	2000	P	05/16/2025	13:39	LB135802
	Chromium	10.0	+/-10.0	U	10.0	P	05/16/2025	13:39	LB135802
	Cobalt	30.0	+/-30.0	U	30.0	P	05/16/2025	13:39	LB135802
	Copper	20.0	+/-20.0	U	20.0	P	05/16/2025	13:39	LB135802
	Iron	100	+/-100	U	100	P	05/16/2025	13:39	LB135802
	Lead	12.0	+/-12.0	U	12.0	P	05/16/2025	13:39	LB135802
	Magnesium	2000	+/-2000	U	2000	P	05/16/2025	13:39	LB135802
	Manganese	20.0	+/-20.0	U	20.0	P	05/16/2025	13:39	LB135802
	Nickel	40.0	+/-40.0	U	40.0	P	05/16/2025	13:39	LB135802
	Potassium	2000	+/-2000	U	2000	P	05/16/2025	13:39	LB135802
	Selenium	20.0	+/-20.0	U	20.0	P	05/16/2025	13:39	LB135802
	Silver	10.0	+/-10.0	U	10.0	P	05/16/2025	13:39	LB135802
	Sodium	2000	+/-2000	U	2000	P	05/16/2025	13:39	LB135802
	Thallium	40.0	+/-40.0	U	40.0	P	05/16/2025	13:39	LB135802
	Vanadium	40.0	+/-40.0	U	40.0	P	05/16/2025	13:39	LB135802
	Zinc	40.0	+/-40.0	U	40.0	P	05/16/2025	13:39	LB135802
CCB02	Aluminum	100	+/-100	U	100	P	05/16/2025	14:40	LB135802
	Antimony	50.0	+/-50.0	U	50.0	P	05/16/2025	14:40	LB135802
	Arsenic	20.0	+/-20.0	U	20.0	P	05/16/2025	14:40	LB135802
	Barium	100	+/-100	U	100	P	05/16/2025	14:40	LB135802
	Beryllium	6.00	+/-6.00	U	6.00	P	05/16/2025	14:40	LB135802
	Cadmium	6.00	+/-6.00	U	6.00	P	05/16/2025	14:40	LB135802
	Calcium	2000	+/-2000	U	2000	P	05/16/2025	14:40	LB135802
	Chromium	10.0	+/-10.0	U	10.0	P	05/16/2025	14:40	LB135802
	Cobalt	30.0	+/-30.0	U	30.0	P	05/16/2025	14:40	LB135802
	Copper	20.0	+/-20.0	U	20.0	P	05/16/2025	14:40	LB135802
	Iron	100	+/-100	U	100	P	05/16/2025	14:40	LB135802
	Lead	12.0	+/-12.0	U	12.0	P	05/16/2025	14:40	LB135802
	Magnesium	2000	+/-2000	U	2000	P	05/16/2025	14:40	LB135802
	Manganese	20.0	+/-20.0	U	20.0	P	05/16/2025	14:40	LB135802
	Nickel	40.0	+/-40.0	U	40.0	P	05/16/2025	14:40	LB135802
	Potassium	2000	+/-2000	U	2000	P	05/16/2025	14:40	LB135802
	Selenium	20.0	+/-20.0	U	20.0	P	05/16/2025	14:40	LB135802

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2010							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2010	SAS No.: Q2010						
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	05/16/2025	14:40	LB135802
	Sodium	2000	+/-2000	U	2000	P	05/16/2025	14:40	LB135802
	Thallium	40.0	+/-40.0	U	40.0	P	05/16/2025	14:40	LB135802
	Vanadium	40.0	+/-40.0	U	40.0	P	05/16/2025	14:40	LB135802
	Zinc	40.0	+/-40.0	U	40.0	P	05/16/2025	14:40	LB135802
CCB03	Aluminum	100	+/-100	U	100	P	05/16/2025	15:26	LB135802
	Antimony	50.0	+/-50.0	U	50.0	P	05/16/2025	15:26	LB135802
	Arsenic	20.0	+/-20.0	U	20.0	P	05/16/2025	15:26	LB135802
	Barium	100	+/-100	U	100	P	05/16/2025	15:26	LB135802
	Beryllium	6.00	+/-6.00	U	6.00	P	05/16/2025	15:26	LB135802
	Cadmium	6.00	+/-6.00	U	6.00	P	05/16/2025	15:26	LB135802
	Calcium	2000	+/-2000	U	2000	P	05/16/2025	15:26	LB135802
	Chromium	10.0	+/-10.0	U	10.0	P	05/16/2025	15:26	LB135802
	Cobalt	30.0	+/-30.0	U	30.0	P	05/16/2025	15:26	LB135802
	Copper	20.0	+/-20.0	U	20.0	P	05/16/2025	15:26	LB135802
	Iron	100	+/-100	U	100	P	05/16/2025	15:26	LB135802
	Lead	12.0	+/-12.0	U	12.0	P	05/16/2025	15:26	LB135802
	Magnesium	2000	+/-2000	U	2000	P	05/16/2025	15:26	LB135802
	Manganese	20.0	+/-20.0	U	20.0	P	05/16/2025	15:26	LB135802
	Nickel	40.0	+/-40.0	U	40.0	P	05/16/2025	15:26	LB135802
	Potassium	2000	+/-2000	U	2000	P	05/16/2025	15:26	LB135802
	Selenium	20.0	+/-20.0	U	20.0	P	05/16/2025	15:26	LB135802
	Silver	10.0	+/-10.0	U	10.0	P	05/16/2025	15:26	LB135802
	Sodium	2000	+/-2000	U	2000	P	05/16/2025	15:26	LB135802
	Thallium	40.0	+/-40.0	U	40.0	P	05/16/2025	15:26	LB135802
	Vanadium	40.0	+/-40.0	U	40.0	P	05/16/2025	15:26	LB135802
	Zinc	40.0	+/-40.0	U	40.0	P	05/16/2025	15:26	LB135802
CCB04	Aluminum	100	+/-100	U	100	P	05/16/2025	16:12	LB135802
	Antimony	50.0	+/-50.0	U	50.0	P	05/16/2025	16:12	LB135802
	Arsenic	20.0	+/-20.0	U	20.0	P	05/16/2025	16:12	LB135802
	Barium	100	+/-100	U	100	P	05/16/2025	16:12	LB135802
	Beryllium	6.00	+/-6.00	U	6.00	P	05/16/2025	16:12	LB135802
	Cadmium	6.00	+/-6.00	U	6.00	P	05/16/2025	16:12	LB135802
	Calcium	2000	+/-2000	U	2000	P	05/16/2025	16:12	LB135802
	Chromium	10.0	+/-10.0	U	10.0	P	05/16/2025	16:12	LB135802
	Cobalt	30.0	+/-30.0	U	30.0	P	05/16/2025	16:12	LB135802
	Copper	20.0	+/-20.0	U	20.0	P	05/16/2025	16:12	LB135802
	Iron	100	+/-100	U	100	P	05/16/2025	16:12	LB135802
	Lead	12.0	+/-12.0	U	12.0	P	05/16/2025	16:12	LB135802

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2010							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2010	SAS No.: Q2010						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	05/16/2025	16:12	LB135802
	Manganese	20.0	+/-20.0	U	20.0	P	05/16/2025	16:12	LB135802
	Nickel	40.0	+/-40.0	U	40.0	P	05/16/2025	16:12	LB135802
	Potassium	2000	+/-2000	U	2000	P	05/16/2025	16:12	LB135802
	Selenium	20.0	+/-20.0	U	20.0	P	05/16/2025	16:12	LB135802
	Silver	10.0	+/-10.0	U	10.0	P	05/16/2025	16:12	LB135802
	Sodium	2000	+/-2000	U	2000	P	05/16/2025	16:12	LB135802
	Thallium	40.0	+/-40.0	U	40.0	P	05/16/2025	16:12	LB135802
	Vanadium	40.0	+/-40.0	U	40.0	P	05/16/2025	16:12	LB135802
	Zinc	40.0	+/-40.0	U	40.0	P	05/16/2025	16:12	LB135802
CCB05	Aluminum	100	+/-100	U	100	P	05/16/2025	16:58	LB135802
	Antimony	50.0	+/-50.0	U	50.0	P	05/16/2025	16:58	LB135802
	Arsenic	20.0	+/-20.0	U	20.0	P	05/16/2025	16:58	LB135802
	Barium	100	+/-100	U	100	P	05/16/2025	16:58	LB135802
	Beryllium	6.00	+/-6.00	U	6.00	P	05/16/2025	16:58	LB135802
	Cadmium	6.00	+/-6.00	U	6.00	P	05/16/2025	16:58	LB135802
	Calcium	2000	+/-2000	U	2000	P	05/16/2025	16:58	LB135802
	Chromium	10.0	+/-10.0	U	10.0	P	05/16/2025	16:58	LB135802
	Cobalt	30.0	+/-30.0	U	30.0	P	05/16/2025	16:58	LB135802
	Copper	20.0	+/-20.0	U	20.0	P	05/16/2025	16:58	LB135802
	Iron	100	+/-100	U	100	P	05/16/2025	16:58	LB135802
	Lead	12.0	+/-12.0	U	12.0	P	05/16/2025	16:58	LB135802
	Magnesium	2000	+/-2000	U	2000	P	05/16/2025	16:58	LB135802
	Manganese	20.0	+/-20.0	U	20.0	P	05/16/2025	16:58	LB135802
	Nickel	40.0	+/-40.0	U	40.0	P	05/16/2025	16:58	LB135802
	Potassium	2000	+/-2000	U	2000	P	05/16/2025	16:58	LB135802
	Selenium	20.0	+/-20.0	U	20.0	P	05/16/2025	16:58	LB135802
	Silver	10.0	+/-10.0	U	10.0	P	05/16/2025	16:58	LB135802
	Sodium	2000	+/-2000	U	2000	P	05/16/2025	16:58	LB135802
	Thallium	40.0	+/-40.0	U	40.0	P	05/16/2025	16:58	LB135802
	Vanadium	40.0	+/-40.0	U	40.0	P	05/16/2025	16:58	LB135802
	Zinc	40.0	+/-40.0	U	40.0	P	05/16/2025	16:58	LB135802
CCB06	Aluminum	100	+/-100	U	100	P	05/16/2025	17:32	LB135802
	Antimony	50.0	+/-50.0	U	50.0	P	05/16/2025	17:32	LB135802
	Arsenic	20.0	+/-20.0	U	20.0	P	05/16/2025	17:32	LB135802
	Barium	100	+/-100	U	100	P	05/16/2025	17:32	LB135802
	Beryllium	6.00	+/-6.00	U	6.00	P	05/16/2025	17:32	LB135802
	Cadmium	6.00	+/-6.00	U	6.00	P	05/16/2025	17:32	LB135802
	Calcium	2000	+/-2000	U	2000	P	05/16/2025	17:32	LB135802

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010

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	05/16/2025	17:32	LB135802
	Cobalt	30.0	+/-30.0	U	30.0	P	05/16/2025	17:32	LB135802
	Copper	20.0	+/-20.0	U	20.0	P	05/16/2025	17:32	LB135802
	Iron	100	+/-100	U	100	P	05/16/2025	17:32	LB135802
	Lead	12.0	+/-12.0	U	12.0	P	05/16/2025	17:32	LB135802
	Magnesium	2000	+/-2000	U	2000	P	05/16/2025	17:32	LB135802
	Manganese	20.0	+/-20.0	U	20.0	P	05/16/2025	17:32	LB135802
	Nickel	40.0	+/-40.0	U	40.0	P	05/16/2025	17:32	LB135802
	Potassium	2000	+/-2000	U	2000	P	05/16/2025	17:32	LB135802
	Selenium	20.0	+/-20.0	U	20.0	P	05/16/2025	17:32	LB135802
	Silver	10.0	+/-10.0	U	10.0	P	05/16/2025	17:32	LB135802
	Sodium	2000	+/-2000	U	2000	P	05/16/2025	17:32	LB135802
	Thallium	40.0	+/-40.0	U	40.0	P	05/16/2025	17:32	LB135802
	Vanadium	40.0	+/-40.0	U	40.0	P	05/16/2025	17:32	LB135802
	Zinc	40.0	+/-40.0	U	40.0	P	05/16/2025	17:32	LB135802

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2010

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167983BL		SOLID		Batch Number:	PB167983		Prep Date:	05/13/2025	
	Mercury	0.013	<0.013	U	0.013	CV	05/13/2025	12:21	LB135751

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2010

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167977BL	SOLID			Batch Number:	PB167977		Prep Date:	05/13/2025	
	Aluminum	5.00	<5.00	U	5.00	P	05/16/2025	14:20	LB135802
	Antimony	2.50	<2.50	U	2.50	P	05/16/2025	14:20	LB135802
	Arsenic	1.00	<1.00	U	1.00	P	05/16/2025	14:20	LB135802
	Barium	5.00	<5.00	U	5.00	P	05/16/2025	14:20	LB135802
	Beryllium	0.30	<0.30	U	0.30	P	05/16/2025	14:20	LB135802
	Cadmium	0.30	<0.30	U	0.30	P	05/16/2025	14:20	LB135802
	Calcium	100	<100	U	100	P	05/16/2025	14:20	LB135802
	Chromium	0.50	<0.50	U	0.50	P	05/16/2025	14:20	LB135802
	Cobalt	1.50	<1.50	U	1.50	P	05/16/2025	14:20	LB135802
	Copper	1.00	<1.00	U	1.00	P	05/16/2025	14:20	LB135802
	Iron	5.00	<5.00	U	5.00	P	05/16/2025	14:20	LB135802
	Lead	0.60	<0.60	U	0.60	P	05/16/2025	14:20	LB135802
	Magnesium	100	<100	U	100	P	05/16/2025	14:20	LB135802
	Manganese	1.00	<1.00	U	1.00	P	05/16/2025	14:20	LB135802
	Nickel	2.00	<2.00	U	2.00	P	05/16/2025	14:20	LB135802
	Potassium	100	<100	U	100	P	05/16/2025	14:20	LB135802
	Selenium	1.00	<1.00	U	1.00	P	05/16/2025	14:20	LB135802
	Silver	0.50	<0.50	U	0.50	P	05/16/2025	14:20	LB135802
	Sodium	100	<100	U	100	P	05/16/2025	14:20	LB135802
	Thallium	2.00	<2.00	U	2.00	P	05/16/2025	14:20	LB135802
	Vanadium	2.00	<2.00	U	2.00	P	05/16/2025	14:20	LB135802
	Zinc	2.00	<2.00	U	2.00	P	05/16/2025	14:20	LB135802



METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010
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
ICV07	Mercury	4.11	4.0	103	90 - 110	CV	05/13/2025	11:07	LB135751

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010
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
CCV17	Mercury	4.95	5.0	99	90 - 110	CV	05/13/2025	11:12	LB135751
CCV18	Mercury	4.92	5.0	98	90 - 110	CV	05/13/2025	11:44	LB135751
CCV19	Mercury	5.00	5.0	100	90 - 110	CV	05/13/2025	12:16	LB135751
CCV20	Mercury	5.19	5.0	104	90 - 110	CV	05/13/2025	12:44	LB135751
CCV21	Mercury	4.98	5.0	100	90 - 110	CV	05/13/2025	13:17	LB135751

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010
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	2430	2500	97	90 - 110	P	05/16/2025	12:48	LB135802
	Antimony	1030	1000	103	90 - 110	P	05/16/2025	12:48	LB135802
	Arsenic	1010	1000	101	90 - 110	P	05/16/2025	12:48	LB135802
	Barium	472	520	91	90 - 110	P	05/16/2025	12:48	LB135802
	Beryllium	488	510	96	90 - 110	P	05/16/2025	12:48	LB135802
	Cadmium	509	510	100	90 - 110	P	05/16/2025	12:48	LB135802
	Calcium	9510	10000	95	90 - 110	P	05/16/2025	12:48	LB135802
	Chromium	507	520	98	90 - 110	P	05/16/2025	12:48	LB135802
	Cobalt	500	520	96	90 - 110	P	05/16/2025	12:48	LB135802
	Copper	514	510	101	90 - 110	P	05/16/2025	12:48	LB135802
	Iron	9400	10000	94	90 - 110	P	05/16/2025	12:48	LB135802
	Lead	993	1000	99	90 - 110	P	05/16/2025	12:48	LB135802
	Magnesium	5580	6000	93	90 - 110	P	05/16/2025	12:48	LB135802
	Manganese	492	520	95	90 - 110	P	05/16/2025	12:48	LB135802
	Nickel	504	530	95	90 - 110	P	05/16/2025	12:48	LB135802
	Potassium	9190	9900	93	90 - 110	P	05/16/2025	12:48	LB135802
	Selenium	1020	1000	102	90 - 110	P	05/16/2025	12:48	LB135802
	Silver	226	250	90	90 - 110	P	05/16/2025	12:48	LB135802
	Sodium	9640	10000	96	90 - 110	P	05/16/2025	12:48	LB135802
	Thallium	1010	1000	101	90 - 110	P	05/16/2025	12:48	LB135802
	Vanadium	483	500	97	90 - 110	P	05/16/2025	12:48	LB135802
	Zinc	999	1000	100	90 - 110	P	05/16/2025	12:48	LB135802

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2010

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010

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	102	100	102	80 - 120	P	05/16/2025	13:00	LB135802
	Antimony	53.5	50.0	107	80 - 120	P	05/16/2025	13:00	LB135802
	Arsenic	21.5	20.0	107	80 - 120	P	05/16/2025	13:00	LB135802
	Barium	92.9	100	93	80 - 120	P	05/16/2025	13:00	LB135802
	Beryllium	5.54	6.0	92	80 - 120	P	05/16/2025	13:00	LB135802
	Cadmium	6.19	6.0	103	80 - 120	P	05/16/2025	13:00	LB135802
	Calcium	1970	2000	99	80 - 120	P	05/16/2025	13:00	LB135802
	Chromium	9.88	10.0	99	80 - 120	P	05/16/2025	13:00	LB135802
	Cobalt	29.7	30.0	99	80 - 120	P	05/16/2025	13:00	LB135802
	Copper	21.9	20.0	110	80 - 120	P	05/16/2025	13:00	LB135802
	Iron	104	100	104	80 - 120	P	05/16/2025	13:00	LB135802
	Lead	13.2	12.0	110	80 - 120	P	05/16/2025	13:00	LB135802
	Magnesium	2050	2000	103	80 - 120	P	05/16/2025	13:00	LB135802
	Manganese	19.8	20.0	99	80 - 120	P	05/16/2025	13:00	LB135802
	Nickel	40.2	40.0	100	80 - 120	P	05/16/2025	13:00	LB135802
	Potassium	1940	2000	97	80 - 120	P	05/16/2025	13:00	LB135802
	Selenium	22.0	20.0	110	80 - 120	P	05/16/2025	13:00	LB135802
	Silver	9.86	10.0	99	80 - 120	P	05/16/2025	13:00	LB135802
	Sodium	1670	2000	83	80 - 120	P	05/16/2025	13:00	LB135802
	Thallium	39.9	40.0	100	80 - 120	P	05/16/2025	13:00	LB135802
	Vanadium	39.6	40.0	99	80 - 120	P	05/16/2025	13:00	LB135802
	Zinc	42.2	40.0	105	80 - 120	P	05/16/2025	13:00	LB135802

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2010
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2010 SAS No.: Q2010
 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	9980	10000	100	90 - 110	P	05/16/2025	13:35	LB135802
	Antimony	5060	5000	101	90 - 110	P	05/16/2025	13:35	LB135802
	Arsenic	5000	5000	100	90 - 110	P	05/16/2025	13:35	LB135802
	Barium	9710	10000	97	90 - 110	P	05/16/2025	13:35	LB135802
	Beryllium	261	250	104	90 - 110	P	05/16/2025	13:35	LB135802
	Cadmium	2500	2500	100	90 - 110	P	05/16/2025	13:35	LB135802
	Calcium	24800	25000	99	90 - 110	P	05/16/2025	13:35	LB135802
	Chromium	1010	1000	101	90 - 110	P	05/16/2025	13:35	LB135802
	Cobalt	2520	2500	101	90 - 110	P	05/16/2025	13:35	LB135802
	Copper	1270	1250	102	90 - 110	P	05/16/2025	13:35	LB135802
	Iron	4680	5000	94	90 - 110	P	05/16/2025	13:35	LB135802
	Lead	5030	5000	101	90 - 110	P	05/16/2025	13:35	LB135802
	Magnesium	25000	25000	100	90 - 110	P	05/16/2025	13:35	LB135802
	Manganese	2480	2500	99	90 - 110	P	05/16/2025	13:35	LB135802
	Nickel	2510	2500	100	90 - 110	P	05/16/2025	13:35	LB135802
	Potassium	23400	25000	94	90 - 110	P	05/16/2025	13:35	LB135802
	Selenium	5050	5000	101	90 - 110	P	05/16/2025	13:35	LB135802
	Silver	1250	1250	100	90 - 110	P	05/16/2025	13:35	LB135802
	Sodium	23100	25000	92	90 - 110	P	05/16/2025	13:35	LB135802
	Thallium	5100	5000	102	90 - 110	P	05/16/2025	13:35	LB135802
	Vanadium	2490	2500	100	90 - 110	P	05/16/2025	13:35	LB135802
	Zinc	2520	2500	101	90 - 110	P	05/16/2025	13:35	LB135802
CCV02	Aluminum	9780	10000	98	90 - 110	P	05/16/2025	14:36	LB135802
	Antimony	4980	5000	100	90 - 110	P	05/16/2025	14:36	LB135802
	Arsenic	4920	5000	98	90 - 110	P	05/16/2025	14:36	LB135802
	Barium	9530	10000	95	90 - 110	P	05/16/2025	14:36	LB135802
	Beryllium	250	250	100	90 - 110	P	05/16/2025	14:36	LB135802
	Cadmium	2450	2500	98	90 - 110	P	05/16/2025	14:36	LB135802
	Calcium	24100	25000	96	90 - 110	P	05/16/2025	14:36	LB135802
	Chromium	996	1000	100	90 - 110	P	05/16/2025	14:36	LB135802
	Cobalt	2460	2500	98	90 - 110	P	05/16/2025	14:36	LB135802
	Copper	1250	1250	100	90 - 110	P	05/16/2025	14:36	LB135802
	Iron	4790	5000	96	90 - 110	P	05/16/2025	14:36	LB135802
	Lead	4920	5000	98	90 - 110	P	05/16/2025	14:36	LB135802

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2010
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2010 SAS No.: Q2010
 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	24300	25000	97	90 - 110	P	05/16/2025	14:36	LB135802
	Manganese	2400	2500	96	90 - 110	P	05/16/2025	14:36	LB135802
	Nickel	2460	2500	98	90 - 110	P	05/16/2025	14:36	LB135802
	Potassium	24000	25000	96	90 - 110	P	05/16/2025	14:36	LB135802
	Selenium	4990	5000	100	90 - 110	P	05/16/2025	14:36	LB135802
	Silver	1240	1250	100	90 - 110	P	05/16/2025	14:36	LB135802
	Sodium	23600	25000	95	90 - 110	P	05/16/2025	14:36	LB135802
	Thallium	5070	5000	101	90 - 110	P	05/16/2025	14:36	LB135802
	Vanadium	2430	2500	97	90 - 110	P	05/16/2025	14:36	LB135802
	Zinc	2520	2500	101	90 - 110	P	05/16/2025	14:36	LB135802
CCV03	Aluminum	9580	10000	96	90 - 110	P	05/16/2025	15:22	LB135802
	Antimony	4980	5000	100	90 - 110	P	05/16/2025	15:22	LB135802
	Arsenic	4960	5000	99	90 - 110	P	05/16/2025	15:22	LB135802
	Barium	9500	10000	95	90 - 110	P	05/16/2025	15:22	LB135802
	Beryllium	238	250	95	90 - 110	P	05/16/2025	15:22	LB135802
	Cadmium	2470	2500	99	90 - 110	P	05/16/2025	15:22	LB135802
	Calcium	23900	25000	96	90 - 110	P	05/16/2025	15:22	LB135802
	Chromium	992	1000	99	90 - 110	P	05/16/2025	15:22	LB135802
	Cobalt	2470	2500	99	90 - 110	P	05/16/2025	15:22	LB135802
	Copper	1250	1250	100	90 - 110	P	05/16/2025	15:22	LB135802
	Iron	4970	5000	99	90 - 110	P	05/16/2025	15:22	LB135802
	Lead	4940	5000	99	90 - 110	P	05/16/2025	15:22	LB135802
	Magnesium	23800	25000	95	90 - 110	P	05/16/2025	15:22	LB135802
	Manganese	2390	2500	96	90 - 110	P	05/16/2025	15:22	LB135802
	Nickel	2470	2500	99	90 - 110	P	05/16/2025	15:22	LB135802
	Potassium	24900	25000	100	90 - 110	P	05/16/2025	15:22	LB135802
	Selenium	5040	5000	101	90 - 110	P	05/16/2025	15:22	LB135802
	Silver	1230	1250	99	90 - 110	P	05/16/2025	15:22	LB135802
	Sodium	24700	25000	99	90 - 110	P	05/16/2025	15:22	LB135802
	Thallium	5090	5000	102	90 - 110	P	05/16/2025	15:22	LB135802
	Vanadium	2410	2500	96	90 - 110	P	05/16/2025	15:22	LB135802
	Zinc	2480	2500	99	90 - 110	P	05/16/2025	15:22	LB135802
CCV04	Aluminum	9640	10000	96	90 - 110	P	05/16/2025	16:08	LB135802
	Antimony	4920	5000	98	90 - 110	P	05/16/2025	16:08	LB135802

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2010
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2010 SAS No.: Q2010
 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	4870	5000	97	90 - 110	P	05/16/2025	16:08	LB135802
	Barium	9500	10000	95	90 - 110	P	05/16/2025	16:08	LB135802
	Beryllium	238	250	95	90 - 110	P	05/16/2025	16:08	LB135802
	Cadmium	2430	2500	97	90 - 110	P	05/16/2025	16:08	LB135802
	Calcium	23900	25000	96	90 - 110	P	05/16/2025	16:08	LB135802
	Chromium	982	1000	98	90 - 110	P	05/16/2025	16:08	LB135802
	Cobalt	2440	2500	98	90 - 110	P	05/16/2025	16:08	LB135802
	Copper	1240	1250	99	90 - 110	P	05/16/2025	16:08	LB135802
	Iron	4810	5000	96	90 - 110	P	05/16/2025	16:08	LB135802
	Lead	4890	5000	98	90 - 110	P	05/16/2025	16:08	LB135802
	Magnesium	24000	25000	96	90 - 110	P	05/16/2025	16:08	LB135802
	Manganese	2380	2500	95	90 - 110	P	05/16/2025	16:08	LB135802
	Nickel	2440	2500	98	90 - 110	P	05/16/2025	16:08	LB135802
	Potassium	24000	25000	96	90 - 110	P	05/16/2025	16:08	LB135802
	Selenium	4940	5000	99	90 - 110	P	05/16/2025	16:08	LB135802
	Silver	1210	1250	97	90 - 110	P	05/16/2025	16:08	LB135802
	Sodium	23800	25000	95	90 - 110	P	05/16/2025	16:08	LB135802
	Thallium	5080	5000	102	90 - 110	P	05/16/2025	16:08	LB135802
	Vanadium	2410	2500	96	90 - 110	P	05/16/2025	16:08	LB135802
	Zinc	2440	2500	98	90 - 110	P	05/16/2025	16:08	LB135802
CCV05	Aluminum	9800	10000	98	90 - 110	P	05/16/2025	16:53	LB135802
	Antimony	4980	5000	100	90 - 110	P	05/16/2025	16:53	LB135802
	Arsenic	4930	5000	99	90 - 110	P	05/16/2025	16:53	LB135802
	Barium	9440	10000	94	90 - 110	P	05/16/2025	16:53	LB135802
	Beryllium	256	250	102	90 - 110	P	05/16/2025	16:53	LB135802
	Cadmium	2460	2500	98	90 - 110	P	05/16/2025	16:53	LB135802
	Calcium	24200	25000	97	90 - 110	P	05/16/2025	16:53	LB135802
	Chromium	992	1000	99	90 - 110	P	05/16/2025	16:53	LB135802
	Cobalt	2470	2500	99	90 - 110	P	05/16/2025	16:53	LB135802
	Copper	1250	1250	100	90 - 110	P	05/16/2025	16:53	LB135802
	Iron	4680	5000	94	90 - 110	P	05/16/2025	16:53	LB135802
	Lead	4930	5000	99	90 - 110	P	05/16/2025	16:53	LB135802
	Magnesium	24400	25000	98	90 - 110	P	05/16/2025	16:53	LB135802
	Manganese	2420	2500	97	90 - 110	P	05/16/2025	16:53	LB135802

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010
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	2460	2500	98	90 - 110	P	05/16/2025	16:53	LB135802
	Potassium	23500	25000	94	90 - 110	P	05/16/2025	16:53	LB135802
	Selenium	5000	5000	100	90 - 110	P	05/16/2025	16:53	LB135802
	Silver	1240	1250	99	90 - 110	P	05/16/2025	16:53	LB135802
	Sodium	23200	25000	93	90 - 110	P	05/16/2025	16:53	LB135802
	Thallium	5090	5000	102	90 - 110	P	05/16/2025	16:53	LB135802
	Vanadium	2440	2500	98	90 - 110	P	05/16/2025	16:53	LB135802
	Zinc	2500	2500	100	90 - 110	P	05/16/2025	16:53	LB135802
CCV06	Aluminum	9630	10000	96	90 - 110	P	05/16/2025	17:28	LB135802
	Antimony	4890	5000	98	90 - 110	P	05/16/2025	17:28	LB135802
	Arsenic	4890	5000	98	90 - 110	P	05/16/2025	17:28	LB135802
	Barium	9380	10000	94	90 - 110	P	05/16/2025	17:28	LB135802
	Beryllium	248	250	99	90 - 110	P	05/16/2025	17:28	LB135802
	Cadmium	2460	2500	98	90 - 110	P	05/16/2025	17:28	LB135802
	Calcium	23800	25000	95	90 - 110	P	05/16/2025	17:28	LB135802
	Chromium	987	1000	99	90 - 110	P	05/16/2025	17:28	LB135802
	Cobalt	2440	2500	98	90 - 110	P	05/16/2025	17:28	LB135802
	Copper	1230	1250	98	90 - 110	P	05/16/2025	17:28	LB135802
	Iron	4770	5000	95	90 - 110	P	05/16/2025	17:28	LB135802
	Lead	4920	5000	98	90 - 110	P	05/16/2025	17:28	LB135802
	Magnesium	24000	25000	96	90 - 110	P	05/16/2025	17:28	LB135802
	Manganese	2370	2500	95	90 - 110	P	05/16/2025	17:28	LB135802
	Nickel	2440	2500	98	90 - 110	P	05/16/2025	17:28	LB135802
	Potassium	23900	25000	96	90 - 110	P	05/16/2025	17:28	LB135802
	Selenium	4960	5000	99	90 - 110	P	05/16/2025	17:28	LB135802
	Silver	1230	1250	99	90 - 110	P	05/16/2025	17:28	LB135802
	Sodium	23600	25000	94	90 - 110	P	05/16/2025	17:28	LB135802
	Thallium	4990	5000	100	90 - 110	P	05/16/2025	17:28	LB135802
	Vanadium	2400	2500	96	90 - 110	P	05/16/2025	17:28	LB135802
	Zinc	2490	2500	100	90 - 110	P	05/16/2025	17:28	LB135802

Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010
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	0.19	0.2	95	70 - 130	CV	05/13/2025	11:16	LB135751
CRI01	Aluminum	107	100	107	65 - 135	P	05/16/2025	13:09	LB135802
	Antimony	51.8	50.0	104	65 - 135	P	05/16/2025	13:09	LB135802
	Arsenic	19.3	20.0	96	65 - 135	P	05/16/2025	13:09	LB135802
	Barium	93.2	100	93	65 - 135	P	05/16/2025	13:09	LB135802
	Beryllium	5.77	6.0	96	65 - 135	P	05/16/2025	13:09	LB135802
	Cadmium	6.13	6.0	102	65 - 135	P	05/16/2025	13:09	LB135802
	Calcium	1980	2000	99	65 - 135	P	05/16/2025	13:09	LB135802
	Chromium	9.83	10.0	98	65 - 135	P	05/16/2025	13:09	LB135802
	Cobalt	29.6	30.0	99	65 - 135	P	05/16/2025	13:09	LB135802
	Copper	22.1	20.0	110	65 - 135	P	05/16/2025	13:09	LB135802
	Iron	103	100	103	65 - 135	P	05/16/2025	13:09	LB135802
	Lead	13.3	12.0	111	65 - 135	P	05/16/2025	13:09	LB135802
	Magnesium	2040	2000	102	65 - 135	P	05/16/2025	13:09	LB135802
	Manganese	20.5	20.0	103	65 - 135	P	05/16/2025	13:09	LB135802
	Nickel	39.6	40.0	99	65 - 135	P	05/16/2025	13:09	LB135802
	Potassium	1920	2000	96	65 - 135	P	05/16/2025	13:09	LB135802
	Selenium	18.9	20.0	95	65 - 135	P	05/16/2025	13:09	LB135802
	Silver	10.0	10.0	100	65 - 135	P	05/16/2025	13:09	LB135802
	Sodium	1680	2000	84	65 - 135	P	05/16/2025	13:09	LB135802
	Thallium	42.4	40.0	106	65 - 135	P	05/16/2025	13:09	LB135802
	Vanadium	38.7	40.0	97	65 - 135	P	05/16/2025	13:09	LB135802
	Zinc	42.3	40.0	106	65 - 135	P	05/16/2025	13:09	LB135802

Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010
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	238000	255000	93	216000	294000	05/16/2025	13:13	LB135802
	Antimony	-2.91			-50	50	05/16/2025	13:13	LB135802
	Arsenic	7.83			-20	20	05/16/2025	13:13	LB135802
	Barium	4.92	6.0	82	-94	106	05/16/2025	13:13	LB135802
	Beryllium	1.43			-6	6	05/16/2025	13:13	LB135802
	Cadmium	-3.46	1.0	346	-5	7	05/16/2025	13:13	LB135802
	Calcium	224000	245000	91	208000	282000	05/16/2025	13:13	LB135802
	Chromium	53.9	52.0	104	42	62	05/16/2025	13:13	LB135802
	Cobalt	1.20			-30	30	05/16/2025	13:13	LB135802
	Copper	10.5	2.0	524	-18	22	05/16/2025	13:13	LB135802
	Iron	93600	101000	93	85600	116500	05/16/2025	13:13	LB135802
	Lead	-5.18			-12	12	05/16/2025	13:13	LB135802
	Magnesium	240000	255000	94	216000	294000	05/16/2025	13:13	LB135802
	Manganese	4.74	7.0	68	-13	27	05/16/2025	13:13	LB135802
	Nickel	2.80	2.0	140	-38	42	05/16/2025	13:13	LB135802
	Potassium	-41.8			0	0	05/16/2025	13:13	LB135802
	Selenium	5.37			-20	20	05/16/2025	13:13	LB135802
	Silver	-5.21			-10	10	05/16/2025	13:13	LB135802
	Sodium	-199			0	0	05/16/2025	13:13	LB135802
	Thallium	4.61			-40	40	05/16/2025	13:13	LB135802
	Vanadium	3.73			-40	40	05/16/2025	13:13	LB135802
	Zinc	2.53			-40	40	05/16/2025	13:13	LB135802
ICSAB01	Aluminum	240000	247000	97	209000	285000	05/16/2025	13:18	LB135802
	Antimony	630	618	102	525	711	05/16/2025	13:18	LB135802
	Arsenic	113	104	109	88.4	120	05/16/2025	13:18	LB135802
	Barium	477	537	89	437	637	05/16/2025	13:18	LB135802
	Beryllium	486	495	98	420	570	05/16/2025	13:18	LB135802
	Cadmium	1000	972	103	826	1120	05/16/2025	13:18	LB135802
	Calcium	224000	235000	95	199000	271000	05/16/2025	13:18	LB135802
	Chromium	552	542	102	460	624	05/16/2025	13:18	LB135802
	Cobalt	497	476	104	404	548	05/16/2025	13:18	LB135802
	Copper	509	511	100	434	588	05/16/2025	13:18	LB135802
	Iron	93800	99300	94	84400	114500	05/16/2025	13:18	LB135802
	Lead	43.9	49.0	90	37	61	05/16/2025	13:18	LB135802
	Magnesium	239000	248000	96	210000	286000	05/16/2025	13:18	LB135802
	Manganese	477	507	94	430	584	05/16/2025	13:18	LB135802
	Nickel	984	954	103	810	1100	05/16/2025	13:18	LB135802
	Potassium	-42.5			0	0	05/16/2025	13:18	LB135802
	Selenium	56.4	46.0	123	26	66	05/16/2025	13:18	LB135802
	Silver	206	201	102	170	232	05/16/2025	13:18	LB135802
	Sodium	-139			0	0	05/16/2025	13:18	LB135802
	Thallium	105	108	97	68	148	05/16/2025	13:18	LB135802

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>CDM Smith</u>	SDG No.: <u>Q2010</u>
Contract: <u>CAMP02</u>	Lab Code: <u>CHEM</u>
ICS Source: <u>EPA</u>	Case No.: <u>Q2010</u>
	SAS No.: <u>Q2010</u>
	Instrument ID: <u>P4</u>

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	473	491	96	417	565	05/16/2025	13:18	LB135802
	Zinc	1030	952	108	809	1095	05/16/2025	13:18	LB135802



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2010
contract: CAMP02 **lab code:** CHEM **case no.:** Q2010 **sas no.:** Q2010
matrix: Solid **sample id:** Q2017-05 **client id:** MH-JMS
Percent Solids for Sample: 82.9 **Spiked ID:** Q2017-05MS **Percent Solids for Spike Sample:** 82.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	3250		2930		110	292		P
Antimony	mg/Kg	75 - 125	21.0		2.73	U	45.7	46	N	P
Arsenic	mg/Kg	75 - 125	41.8		1.08	J	45.7	89		P
Barium	mg/Kg	75 - 125	31.9		23.2		11.4	76		P
Beryllium	mg/Kg	75 - 125	9.55		0.29	J	11.4	81		P
Cadmium	mg/Kg	75 - 125	10.9		0.33	U	11.4	96		P
Calcium	mg/Kg	75 - 125	1040		1040		57.2	-14		P
Chromium	mg/Kg	75 - 125	26.0		6.06		22.9	87		P
Cobalt	mg/Kg	75 - 125	14.6		3.76		11.4	95		P
Copper	mg/Kg	75 - 125	24.7		10.2		17.2	84		P
Iron	mg/Kg	75 - 125	7670		7750		170	-47		P
Lead	mg/Kg	75 - 125	59.0		4.01		57.2	96		P
Magnesium	mg/Kg	75 - 125	1500		1410		110	83		P
Manganese	mg/Kg	75 - 125	228		219		11.4	77		P
Mercury	mg/Kg	80 - 120	0.30		0.015	U	0.31	96		CV
Nickel	mg/Kg	75 - 125	34.4		6.66		28.6	97		P
Potassium	mg/Kg	75 - 125	991		431		570	98		P
Selenium	mg/Kg	75 - 125	98.0		0.56	J	110	89		P
Silver	mg/Kg	75 - 125	3.44		0.55	U	4.3	80		P
Sodium	mg/Kg	75 - 125	317		135		170	107		P
Thallium	mg/Kg	75 - 125	115		2.18	U	110	104		P
Vanadium	mg/Kg	75 - 125	23.8		9.39		17.2	84		P
Zinc	mg/Kg	75 - 125	25.3		15.9		11.4	83		P

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>CDM Smith</u>	level:	<u>low</u>	sdg no.:	<u>Q2010</u>
contract:	<u>CAMP02</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2010</u>
matrix:	<u>Solid</u>	sample id:	<u>Q2017-05</u>	client id:	<u>MH-JMSD</u>
Percent Solids for Sample:	82.9	Spiked ID:	Q2017-05MSD	Percent Solids for Spike Sample:	82.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	3470		2930		110	494		P
Antimony	mg/Kg	75 - 125	19.8		2.73	U	44.9	44	N	P
Arsenic	mg/Kg	75 - 125	40.4		1.08	J	44.9	88		P
Barium	mg/Kg	75 - 125	32.6		23.2		11.2	84		P
Beryllium	mg/Kg	75 - 125	9.93		0.29	J	11.2	86		P
Cadmium	mg/Kg	75 - 125	10.6		0.33	U	11.2	94		P
Calcium	mg/Kg	75 - 125	1080		1040		56.1	64		P
Chromium	mg/Kg	75 - 125	26.1		6.06		22.4	89		P
Cobalt	mg/Kg	75 - 125	14.5		3.76		11.2	96		P
Copper	mg/Kg	75 - 125	25.4		10.2		16.8	90		P
Iron	mg/Kg	75 - 125	7770		7750		170	17		P
Lead	mg/Kg	75 - 125	57.2		4.01		56.1	95		P
Magnesium	mg/Kg	75 - 125	1710		1410		110	272		P
Manganese	mg/Kg	75 - 125	231		219		11.2	108		P
Mercury	mg/Kg	80 - 120	0.24		0.015	U	0.29	83		CV
Nickel	mg/Kg	75 - 125	34.0		6.66		28.1	97		P
Potassium	mg/Kg	75 - 125	987		431		560	99		P
Selenium	mg/Kg	75 - 125	94.7		0.56	J	110	86		P
Silver	mg/Kg	75 - 125	3.27		0.55	U	4.2	78		P
Sodium	mg/Kg	75 - 125	359		135		170	132	N	P
Thallium	mg/Kg	75 - 125	111		2.18	U	110	101		P
Vanadium	mg/Kg	75 - 125	23.8		9.39		16.8	86		P
Zinc	mg/Kg	75 - 125	26.6		15.9		11.2	96		P

Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith	SDG No.: Q2010	
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2010 SAS No.: Q2010
Matrix: Solid	Level: LOW	Client ID: MH-JA
Sample ID: Q2017-05	Spiked ID: Q2017-05A	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	42.0		2.73	U	43.7	96		P
Sodium	mg/Kg	75 - 125	288		135		160	96		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010
Matrix: Solid **Sample ID:** Q2017-05 **Client ID:** MH-JDUP
Percent Solids for Sample: 82.9 **Duplicate ID** Q2017-05DUP **Percent Solids for Spike Sample:** 82.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	2930		3040		4		P
Antimony	mg/Kg	20	2.73	U	2.75	U			P
Arsenic	mg/Kg	20	1.08	J	1.22		12		P
Barium	mg/Kg	20	23.2		22.6		3		P
Beryllium	mg/Kg	20	0.29	J	0.31	J	5		P
Cadmium	mg/Kg	20	0.33	U	0.33	U			P
Calcium	mg/Kg	20	1040		1290		21	*	P
Chromium	mg/Kg	20	6.06		6.01		1		P
Cobalt	mg/Kg	20	3.76		3.80		1		P
Copper	mg/Kg	20	10.2		10.8		5		P
Iron	mg/Kg	20	7750		7350		5		P
Lead	mg/Kg	20	4.01		4.03		0		P
Magnesium	mg/Kg	20	1410		1500		6		P
Manganese	mg/Kg	20	219		222		1		P
Mercury	mg/Kg	20	0.015	U	0.016	U			CV
Nickel	mg/Kg	20	6.66		6.84		3		P
Potassium	mg/Kg	20	431		421		2		P
Selenium	mg/Kg	20	0.56	J	0.81	J	37		P
Silver	mg/Kg	20	0.55	U	0.55	U			P
Sodium	mg/Kg	20	135		138		2		P
Thallium	mg/Kg	20	2.18	U	2.20	U			P
Vanadium	mg/Kg	20	9.39		9.48		1		P
Zinc	mg/Kg	20	15.9		16.2		2		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010
Matrix: Solid **Sample ID:** Q2017-05MS **Client ID:** MH-JMSD
Percent Solids for Sample: 82.9 **Duplicate ID** Q2017-05MSD **Percent Solids for Spike Sample:** 82.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	3250		3470		7		P
Antimony	mg/Kg	20	21.0		19.8		6		P
Arsenic	mg/Kg	20	41.8		40.4		3		P
Barium	mg/Kg	20	31.9		32.6		2		P
Beryllium	mg/Kg	20	9.55		9.93		4		P
Cadmium	mg/Kg	20	10.9		10.6		3		P
Calcium	mg/Kg	20	1040		1080		4		P
Chromium	mg/Kg	20	26.0		26.1		0		P
Cobalt	mg/Kg	20	14.6		14.5		1		P
Copper	mg/Kg	20	24.7		25.4		3		P
Iron	mg/Kg	20	7670		7770		1		P
Lead	mg/Kg	20	59.0		57.2		3		P
Magnesium	mg/Kg	20	1500		1710		13		P
Manganese	mg/Kg	20	228		231		1		P
Mercury	mg/Kg	20	0.30		0.24		20		CV
Nickel	mg/Kg	20	34.4		34.0		1		P
Potassium	mg/Kg	20	991		987		0		P
Selenium	mg/Kg	20	98.0		94.7		3		P
Silver	mg/Kg	20	3.44		3.27		5		P
Sodium	mg/Kg	20	317		359		12		P
Thallium	mg/Kg	20	115		111		4		P
Vanadium	mg/Kg	20	23.8		23.8		0		P
Zinc	mg/Kg	20	25.3		26.6		5		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167977BS							
Aluminum	mg/Kg	100	90.8		91	80 - 120	P
Antimony	mg/Kg	40.0	39.4		98	80 - 120	P
Arsenic	mg/Kg	40.0	38.5		96	80 - 120	P
Barium	mg/Kg	10.0	8.83		88	80 - 120	P
Beryllium	mg/Kg	10.0	9.29		93	80 - 120	P
Cadmium	mg/Kg	10.0	9.64		96	80 - 120	P
Calcium	mg/Kg	50.0	46.8	J	94	80 - 120	P
Chromium	mg/Kg	20.0	19.1		96	80 - 120	P
Cobalt	mg/Kg	10.0	9.37		94	80 - 120	P
Copper	mg/Kg	15.0	14.7		98	80 - 120	P
Iron	mg/Kg	150	141		94	80 - 120	P
Lead	mg/Kg	50.0	46.9		94	80 - 120	P
Magnesium	mg/Kg	100	90.4	J	90	80 - 120	P
Manganese	mg/Kg	10.0	9.15		92	80 - 120	P
Nickel	mg/Kg	25.0	23.6		94	80 - 120	P
Potassium	mg/Kg	500	457		91	80 - 120	P
Selenium	mg/Kg	100	98.4		98	80 - 120	P
Silver	mg/Kg	3.8	3.53		93	80 - 120	P
Sodium	mg/Kg	150	139		93	80 - 120	P
Thallium	mg/Kg	100	97.5		98	80 - 120	P
Vanadium	mg/Kg	15.0	13.8		92	80 - 120	P
Zinc	mg/Kg	10.0	9.69		97	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2010 **SAS No.:** Q2010

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167983BS Mercury	mg/Kg	0.24	0.22		90	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

MH-JL

Lab Name: Chemtech Consulting Group

Contract: CAMP02

Lab Code: CHEM Lb No.: lb135802 Lab Sample ID : Q2017-05L SDG No.: Q2010

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
Aluminum	2930		3020		3		P
Antimony	2.73	U	13.6	U			P
Arsenic	1.08	J	1.94	J	80		P
Barium	23.2		24.6	J	6		P
Beryllium	0.29	J	0.31	J	6		P
Cadmium	0.33	U	1.64	U			P
Calcium	1040		1110		6		P
Chromium	6.06		6.23		3		P
Cobalt	3.76		3.61	J	4		P
Copper	10.2		10.8		6		P
Iron	7750		8320		7		P
Lead	4.01		4.35		9		P
Magnesium	1410		1480		5		P
Manganese	219		238		9		P
Mercury	0.015	U	0.074	U			CV
Nickel	6.66		6.48	J	3		P
Potassium	431		424	J	2		P
Selenium	0.56	J	5.46	U	100.0		P
Silver	0.55	U	2.73	U			P
Sodium	135		546	U	100.0		P
Thallium	2.18	U	10.9	U			P
Vanadium	9.39		10.1	J	8		P
Zinc	15.9		16.5		4		P

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2010 **Sas no.:** Q2010 **Sdg no.:** Q2010

Instrument id number: **Method:** **Run number:** LB135751

Start date: 05/13/2025 **End date:** 05/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1053	HG
S0.2	S0.2	1	1055	HG
S2.5	S2.5	1	1057	HG
S5	S5	1	1100	HG
S7.5	S7.5	1	1102	HG
S10	S10	1	1104	HG
ICV07	ICV07	1	1107	HG
ICB07	ICB07	1	1109	HG
CCV17	CCV17	1	1112	HG
CCB17	CCB17	1	1114	HG
CRA	CRA	1	1116	HG
CCV18	CCV18	1	1144	HG
CCB18	CCB18	1	1146	HG
CCV19	CCV19	1	1216	HG
CCB19	CCB19	1	1219	HG
PB167983BL	PB167983BL	1	1221	HG
PB167983BS	PB167983BS	1	1223	HG
Q2010-01	TP-10	1	1226	HG
Q2010-02	TP-13	1	1228	HG
Q2010-03	TP-14	1	1230	HG
Q2010-04	TP-17	1	1232	HG
CCV20	CCV20	1	1244	HG
CCB20	CCB20	1	1246	HG
Q2017-05DUP	MH-JDUP	1	1251	HG
Q2017-05MS	MH-JMS	1	1256	HG
Q2017-05MSD	MH-JMSD	1	1258	HG
Q2017-05L	MH-JL	5	1305	HG
CCV21	CCV21	1	1317	HG
CCB21	CCB21	1	1319	HG

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2010 **Sas no.:** Q2010 **Sdg no.:** Q2010

Instrument id number: **Method:** **Run number:** LB135802

Start date: 05/16/2025 **End date:** 05/16/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1222	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	1227	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	1231	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	1235	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	1239	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	1244	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	1248	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	1300	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	1305	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	1309	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	1313	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	1318	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	1335	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	1339	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167977BL	PB167977BL	1	1420	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167977BS	PB167977BS	1	1424	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2010-01	TP-10	1	1428	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	1436	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	1440	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2010-02	TP-13	1	1444	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2010-03	TP-14	1	1449	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2010-04	TP-17	1	1453	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2017-05DUP	MH-JDUP	1	1518	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	1522	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	1526	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2017-05L	MH-JL	5	1531	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2017-05MS	MH-JMS	1	1535	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2017-05MSD	MH-JMSD	1	1539	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2017-05A	MH-JA	1	1543	Na,Sb
CCV04	CCV04	1	1608	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	1612	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	1653	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	1658	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	1728	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	1732	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.: Q2010

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2010

SAS No.: Q2010

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2010

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2010

SAS No.: Q2010

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2010

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2010

SAS No.: Q2010

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2010

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2010

SAS No.: Q2010

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.: Q2010
Contract: CAMP02 Lab Code: CHEM Case No.: Q2010 SAS No.: Q2010
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:	Q2010	OrderDate:	5/9/2025 4:00:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2010-01	TP-10	SOIL			05/08/25			05/09/25
			Mercury	7471B		05/13/25	05/13/25	
			Metals ICP-TAL	6010D		05/13/25	05/16/25	
Q2010-02	TP-13	SOIL			05/08/25			05/09/25
			Mercury	7471B		05/13/25	05/13/25	
			Metals ICP-TAL	6010D		05/13/25	05/16/25	
Q2010-03	TP-14	SOIL			05/08/25			05/09/25
			Mercury	7471B		05/13/25	05/13/25	
			Metals ICP-TAL	6010D		05/13/25	05/16/25	
Q2010-04	TP-17	SOIL			05/08/25			05/09/25
			Mercury	7471B		05/13/25	05/13/25	
			Metals ICP-TAL	6010D		05/13/25	05/16/25	



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Method:**
Case No.: Q2010 **SAS No.:** Q2010

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167977							
PB167977BL	PB167977BL	MB	SOLID	05/13/2025	2.00	100.0	100.00
PB167977BS	PB167977BS	LCS	SOLID	05/13/2025	2.00	100.0	100.00
Q2010-01	TP-10	SAM	SOLID	05/13/2025	2.13	100.0	93.30
Q2010-02	TP-13	SAM	SOLID	05/13/2025	2.09	100.0	84.40
Q2010-03	TP-14	SAM	SOLID	05/13/2025	2.12	100.0	80.70
Q2010-04	TP-17	SAM	SOLID	05/13/2025	2.37	100.0	77.40
Q2017-05DUP	MH-JDUP	DUP	SOLID	05/13/2025	2.19	100.0	82.90
Q2017-05MS	MH-JMS	MS	SOLID	05/13/2025	2.11	100.0	82.90
Q2017-05MSD	MH-JMSD	MSD	SOLID	05/13/2025	2.15	100.0	82.90

Metals

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2010
Contract: CAMP02 **Lab Code:** CHEM **Method:** _____
Case No.: Q2010 **SAS No.:** Q2010

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167983							
PB167983BL	PB167983BL	MB	SOLID	05/13/2025	0.52	35.0	100.00
PB167983BS	PB167983BS	LCS	SOLID	05/13/2025	0.59	35.0	100.00
Q2010-01	TP-10	SAM	SOLID	05/13/2025	0.55	35.0	93.30
Q2010-02	TP-13	SAM	SOLID	05/13/2025	0.56	35.0	84.40
Q2010-03	TP-14	SAM	SOLID	05/13/2025	0.55	35.0	80.70
Q2010-04	TP-17	SAM	SOLID	05/13/2025	0.54	35.0	77.40
Q2017-05DUP	MH-JDUP	DUP	SOLID	05/13/2025	0.54	35.0	82.90
Q2017-05MS	MH-JMS	MS	SOLID	05/13/2025	0.55	35.0	82.90
Q2017-05MSD	MH-JMSD	MSD	SOLID	05/13/2025	0.59	35.0	82.90

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135751

Review By	MOHAN	Review On	5/14/2025 4:30:17 PM
Supervise By	jaswal	Supervise On	5/14/2025 11:18:04 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85648,MP856749,MP85650,MP85651,MP85652,MP85653		
ICV Standard	MP85654		
CCV Standard	MP85656		
ICSA Standard			
CRI Standard	MP85658		
LCS Standard			
Chk Standard	MP85655,MP85657,MP85659,MP85661		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/13/25 10:53		MOHAN	OK
2	S0.2	S0.2	CAL2	05/13/25 10:55		MOHAN	OK
3	S2.5	S2.5	CAL3	05/13/25 10:57		MOHAN	OK
4	S5	S5	CAL4	05/13/25 11:00		MOHAN	OK
5	S7.5	S7.5	CAL5	05/13/25 11:02		MOHAN	OK
6	S10	S10	CAL6	05/13/25 11:04		MOHAN	OK
7	ICV07	ICV07	ICV	05/13/25 11:07		MOHAN	OK
8	ICB07	ICB07	ICB	05/13/25 11:09		MOHAN	OK
9	CCV17	CCV17	CCV	05/13/25 11:12		MOHAN	OK
10	CCB17	CCB17	CCB	05/13/25 11:14		MOHAN	OK
11	CRA	CRA	CRDL	05/13/25 11:16		MOHAN	OK
12	HighStd	HighStd	HIGH STD	05/13/25 11:19		MOHAN	OK
13	ChkStd	ChkStd	SAM	05/13/25 11:21		MOHAN	OK
14	PB167982BL	PB167982BL	MB	05/13/25 11:23		MOHAN	OK
15	PB167982BS	PB167982BS	LCS	05/13/25 11:30		MOHAN	OK
16	Q2004-01	VNJ-220	SAM	05/13/25 11:32		MOHAN	OK
17	Q2004-03	2811	SAM	05/13/25 11:35		MOHAN	OK
18	Q2004-05	R0202	SAM	05/13/25 11:37		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135751

Review By	MOHAN	Review On	5/14/2025 4:30:17 PM
Supervise By	jaswal	Supervise On	5/14/2025 11:18:04 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85648,MP856749,MP85650,MP85651,MP85652,MP85653		
ICV Standard	MP85654		
CCV Standard	MP85656		
ICSA Standard			
CRI Standard	MP85658		
LCS Standard			
Chk Standard	MP85655,MP85657,MP85659,MP8561		

19	Q2004-07	205510	SAM	05/13/25 11:39		MOHAN	OK
20	Q2004-09	SOIL-STOCK	SAM	05/13/25 11:41		MOHAN	OK
21	CCV18	CCV18	CCV	05/13/25 11:44		MOHAN	OK
22	CCB18	CCB18	CCB	05/13/25 11:46		MOHAN	OK
23	Q2004-11	STONE-STOCK	SAM	05/13/25 11:48		MOHAN	OK
24	Q2007-01	OR-636-COMP-10	SAM	05/13/25 11:51		MOHAN	OK
25	Q2007-07	OR-636-COMP-11	SAM	05/13/25 11:53	Hg high	MOHAN	Dilution
26	Q2007-13	OR-636-COMP-12	SAM	05/13/25 11:55		MOHAN	OK
27	Q2007-19	OR-636-COMP-13	SAM	05/13/25 11:58		MOHAN	OK
28	Q2007-25	OR-636-COMP-14	SAM	05/13/25 12:00		MOHAN	OK
29	Q2007-31	OR-636-COMP-15	SAM	05/13/25 12:02		MOHAN	OK
30	Q2007-31DUP	OR-636-COMP-15DU	DUP	05/13/25 12:05		MOHAN	OK
31	Q2007-31MS	OR-636-COMP-15MS	MS	05/13/25 12:10		MOHAN	OK
32	Q2007-31MSD	OR-636-COMP-15MS	MSD	05/13/25 12:14		MOHAN	OK
33	CCV19	CCV19	CCV	05/13/25 12:16		MOHAN	OK
34	CCB19	CCB19	CCB	05/13/25 12:19		MOHAN	OK
35	PB167983BL	PB167983BL	MB	05/13/25 12:21		MOHAN	OK
36	PB167983BS	PB167983BS	LCS	05/13/25 12:23		MOHAN	OK
37	Q2010-01	TP-10	SAM	05/13/25 12:26		MOHAN	OK
38	Q2010-02	TP-13	SAM	05/13/25 12:28		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135751

Review By	MOHAN	Review On	5/14/2025 4:30:17 PM
Supervise By	jaswal	Supervise On	5/14/2025 11:18:04 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85648,MP856749,MP85650,MP85651,MP85652,MP85653		
ICV Standard	MP85654		
CCV Standard	MP85656		
ICSA Standard			
CRI Standard	MP85658		
LCS Standard			
Chk Standard	MP85655,MP85657,MP85659,MP85661		

39	Q2010-03	TP-14	SAM	05/13/25 12:30		MOHAN	OK
40	Q2010-04	TP-17	SAM	05/13/25 12:32		MOHAN	OK
41	Q2014-01	MOO-25-0134	SAM	05/13/25 12:35		MOHAN	OK
42	Q2014-03	MOO-25-0145	SAM	05/13/25 12:37		MOHAN	OK
43	Q2014-05	MOO-25-0148	SAM	05/13/25 12:39		MOHAN	OK
44	Q2017-01	MH-I	SAM	05/13/25 12:42		MOHAN	OK
45	CCV20	CCV20	CCV	05/13/25 12:44		MOHAN	OK
46	CCB20	CCB20	CCB	05/13/25 12:46		MOHAN	OK
47	Q2017-05	MH-J	SAM	05/13/25 12:48		MOHAN	OK
48	Q2017-05DUP	MH-JDUP	DUP	05/13/25 12:51		MOHAN	OK
49	Q2017-05MS	MH-JMS	MS	05/13/25 12:56		MOHAN	OK
50	Q2017-05MSD	MH-JMSD	MSD	05/13/25 12:58		MOHAN	OK
51	Q2007-31L	OR-636-COMP-15L	SD	05/13/25 13:01		MOHAN	OK
52	Q2007-31A	OR-636-COMP-15A	PS	05/13/25 13:03		MOHAN	OK
53	Q2017-05L	MH-JL	SD	05/13/25 13:05		MOHAN	OK
54	Q2017-05A	MH-JA	PS	05/13/25 13:08		MOHAN	OK
55	Q2007-07DL	OR-636-COMP-11DL	SAM	05/13/25 13:15	5X For Hg	MOHAN	Confirms
56	CCV21	CCV21	CCV	05/13/25 13:17		MOHAN	OK
57	CCB21	CCB21	CCB	05/13/25 13:19		MOHAN	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135802

Review By	jaswal	Review On	5/19/2025 11:31:41 AM
Supervise By	Mohan	Supervise On	5/19/2025 11:41:44 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85546,MP85547,MP85548,MP85549,MP85552		
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	05/16/25 12:22		Kareem	OK
2	S1	S1	CAL2	05/16/25 12:27		Kareem	OK
3	S2	S2	CAL3	05/16/25 12:31		Kareem	OK
4	S3	S3	CAL4	05/16/25 12:35		Kareem	OK
5	S4	S4	CAL5	05/16/25 12:39		Kareem	OK
6	S5	S5	CAL6	05/16/25 12:44		Kareem	OK
7	ICV01	ICV01	ICV	05/16/25 12:48		Kareem	OK
8	LLICV01	LLICV01	LLICV	05/16/25 13:00		Kareem	OK
9	ICB01	ICB01	ICB	05/16/25 13:05		Kareem	OK
10	CRI01	CRI01	CRDL	05/16/25 13:09		Kareem	OK
11	ICSA01	ICSA01	ICSA	05/16/25 13:13		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	05/16/25 13:18		Kareem	OK
13	ICSADL	ICSADL	ICSA	05/16/25 13:22		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	05/16/25 13:26		Kareem	OK
15	CCV01	CCV01	CCV	05/16/25 13:35		Kareem	OK
16	CCB01	CCB01	CCB	05/16/25 13:39		Kareem	OK
17	Q2022-01	336	SAM	05/16/25 13:43		Kareem	OK
18	Q2022-02	COMP-1	SAM	05/16/25 13:48		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135802

Review By	jaswal	Review On	5/19/2025 11:31:41 AM
Supervise By	Mohan	Supervise On	5/19/2025 11:41:44 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85546,MP85547,MP85548,MP85549,MP85552		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

19	Q2022-04	COMP-2	SAM	05/16/25 13:52		Kareem	OK
20	Q2024-01	PL-02-051325	SAM	05/16/25 13:56		Kareem	OK
21	PB168022BL	PB168022BL	MB	05/16/25 14:00		Kareem	OK
22	PB168022BS	PB168022BS	LCS	05/16/25 14:16		Kareem	OK
23	PB167977BL	PB167977BL	MB	05/16/25 14:20		Kareem	OK
24	PB167977BS	PB167977BS	LCS	05/16/25 14:24		Kareem	OK
25	Q2010-01	TP-10	SAM	05/16/25 14:28		Kareem	OK
26	CCV02	CCV02	CCV	05/16/25 14:36		Kareem	OK
27	CCB02	CCB02	CCB	05/16/25 14:40		Kareem	OK
28	Q2010-02	TP-13	SAM	05/16/25 14:44		Kareem	OK
29	Q2010-03	TP-14	SAM	05/16/25 14:49		Kareem	OK
30	Q2010-04	TP-17	SAM	05/16/25 14:53		Kareem	OK
31	Q2014-01	MOO-25-0134	SAM	05/16/25 14:57		Kareem	OK
32	Q2014-03	MOO-25-0145	SAM	05/16/25 15:01		Kareem	OK
33	Q2014-05	MOO-25-0148	SAM	05/16/25 15:05		Kareem	OK
34	Q2017-01	MH-I	SAM	05/16/25 15:10		Kareem	OK
35	Q2017-05	MH-J	SAM	05/16/25 15:14		Kareem	OK
36	Q2017-05DUP	MH-JDUP	DUP	05/16/25 15:18		Kareem	OK
37	CCV03	CCV03	CCV	05/16/25 15:22		Kareem	OK
38	CCB03	CCB03	CCB	05/16/25 15:26		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135802

Review By	jaswal	Review On	5/19/2025 11:31:41 AM
Supervise By	Mohan	Supervise On	5/19/2025 11:41:44 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85546,MP85547,MP85548,MP85549,MP85552		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

39	Q2017-05L	MH-JL	SD	05/16/25 15:31		Kareem	OK
40	Q2017-05MS	MH-JMS	MS	05/16/25 15:35		Kareem	OK
41	Q2017-05MSD	MH-JMSD	MSD	05/16/25 15:39		Kareem	OK
42	Q2017-05A	MH-JA	PS	05/16/25 15:43		Kareem	OK
43	Q2019-01	MH-K	SAM	05/16/25 15:47		Kareem	OK
44	Q2020-01	TP-A	SAM	05/16/25 15:51		Kareem	OK
45	Q2023-01	HEATER-PAD	SAM	05/16/25 15:55		Kareem	OK
46	Q2038-01	72-11991	SAM	05/16/25 16:00		Kareem	OK
47	Q2039-01	TR-05-05142025	SAM	05/16/25 16:04		Kareem	OK
48	CCV04	CCV04	CCV	05/16/25 16:08		Kareem	OK
49	CCB04	CCB04	CCB	05/16/25 16:12		Kareem	OK
50	Q2043-01	281	SAM	05/16/25 16:16		Kareem	OK
51	Q2043-03	72-12000	SAM	05/16/25 16:20	Pb high	Kareem	Dilution
52	Q2047-01	SU-04-051425	SAM	05/16/25 16:24		Kareem	OK
53	Q2047-01DUP	SU-04-051425DUP	DUP	05/16/25 16:29		Kareem	OK
54	Q2047-01L	SU-04-051425L	SD	05/16/25 16:33		Kareem	OK
55	Q2047-01MS	SU-04-051425MS	MS	05/16/25 16:37		Kareem	OK
56	Q2047-01MSD	SU-04-051425MSD	MSD	05/16/25 16:41		Kareem	OK
57	Q2047-01A	SU-04-051425A	PS	05/16/25 16:45		Kareem	OK
58	Q2001-11	WC-A1-06-C	SAM	05/16/25 16:49		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135802

Review By	jaswal	Review On	5/19/2025 11:31:41 AM
Supervise By	Mohan	Supervise On	5/19/2025 11:41:44 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85546,MP85547,MP85548,MP85549,MP85552		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

59	CCV05	CCV05	CCV	05/16/25 16:53		Kareem	OK
60	CCB05	CCB05	CCB	05/16/25 16:58		Kareem	OK
61	Q2001-11DUP	WC-A1-06-CDUP	DUP	05/16/25 17:02		Kareem	OK
62	Q2001-11L	WC-A1-06-CL	SD	05/16/25 17:06		Kareem	OK
63	Q2001-11MS	WC-A1-06-CMS	MS	05/16/25 17:11		Kareem	OK
64	Q2001-11MSD	WC-A1-06-CMSD	MSD	05/16/25 17:15		Kareem	OK
65	Q2001-11A	WC-A1-06-CA	PS	05/16/25 17:19		Kareem	OK
66	CCV06	CCV06	CCV	05/16/25 17:28		Kareem	OK
67	CCB06	CCB06	CCB	05/16/25 17:32		Kareem	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 #3 2. N/A

Start Digest Date: 05/13/2025 Time : 10:05 Temp : 96 °C

End Digest Date: 05/13/2025 Time : 12:10 Temp : 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: *SLG*

Supervisor Signature: *zgp*

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#3 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/13/25 13:10	<i>SLG. met. dig</i>	<i>zgp Metlab</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
PB167977BL	PBS977	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB167977BS	LCS977	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6005,M6016	2
Q2010-01	TP-10	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	3
Q2010-02	TP-13	N/A	2.09	100	Brown	Yellow	Medium	N/A	N/A	4
Q2010-03	TP-14	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	5
Q2010-04	TP-17	N/A	2.37	100	Brown	Yellow	Medium	N/A	N/A	6
Q2014-01	MOO-25-0134	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	7
Q2014-03	MOO-25-0145	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	8
Q2014-05	MOO-25-0148	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	9
Q2017-01	MH-I	N/A	2.05	100	Brown	Yellow	Medium	N/A	N/A	10
Q2017-05	MH-J	N/A	2.21	100	Brown	Yellow	Medium	N/A	N/A	11
Q2017-05MS	MH-JMS	N/A	2.11	100	Brown	Yellow	Medium	N/A	M6005,M6016	13
Q2017-05MSD	MH-JMSD	N/A	2.15	100	Brown	Yellow	Medium	N/A	M6005,M6016	14
Q2017-05DUP	MH-JDUP	N/A	2.19	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: 05/13/2025 Time : 08:35 Temp : 94 °C

End Digest Date: 05/13/2025 Time : 09:05 Temp : 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 94°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85654
CCV	30mL	MP85656
CRA	30mL	MP85658
Blank Spike	0.48mL	MP85647
Matrix Spike	0.48mL	MP85647

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP85660
KMnO ₄ (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	MP85648
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85649
2.5 ppb	S2.5	30mL	MP85650
5.0 ppb	S5.0	30mL	MP85651
7.5 ppb	S7.5	30mL	MP85652
10.0 ppb	S10.0	30mL	MP85653
ICV	ICV	30mL	MP85654
ICB	ICB	30mL	MP85655
CCV	CCV	30mL	MP85656
CCB	CCB	30mL	MP85657
CRI	CRI	30mL	MP85658
CHK STD	CHK STD	30mL	MP85659

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/13/25 @ 9:45	MB - M3 - LUG	MB - M3 - LUG
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB167983BL	PBS983	0.52	35	NA	N/A	3-18
PB167983BS	LCS983	0.59	35	NA	MP85647	19
Q2010-01	TP-10	0.55	35	NA	N/A	20
Q2010-02	TP-13	0.56	35	NA	N/A	21
Q2010-03	TP-14	0.55	35	NA	N/A	22
Q2010-04	TP-17	0.54	35	NA	N/A	23
Q2014-01	MOO-25-0134	0.53	35	NA	N/A	24
Q2014-03	MOO-25-0145	0.51	35	NA	N/A	25
Q2014-05	MOO-25-0148	0.53	35	NA	N/A	26
Q2017-01	MH-I	0.58	35	NA	N/A	27
Q2017-05	MH-J	0.57	35	NA	N/A	28
Q2017-05DUP	MH-JDUP	0.54	35	NA	N/A	29
Q2017-05MS	MH-JMS	0.55	35	NA	MP85647	30
Q2017-05MSD	MH-JMSD	0.59	35	NA	MP85647	31