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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: APTIM **SDG No.:** Q1543

Contract: SHAW18 **Lab Code:** CHEM **Case No.:** Q1543 **SAS No.:** Q1543

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	2520	2500	101	90 - 110	P	03/17/2025	14:31	LB135063
	Antimony	1020	1000	102	90 - 110	P	03/17/2025	14:31	LB135063
	Arsenic	1020	1000	102	90 - 110	P	03/17/2025	14:31	LB135063
	Barium	533	520	102	90 - 110	P	03/17/2025	14:31	LB135063
	Beryllium	540	510	106	90 - 110	P	03/17/2025	14:31	LB135063
	Cadmium	504	510	99	90 - 110	P	03/17/2025	14:31	LB135063
	Calcium	9860	10000	99	90 - 110	P	03/17/2025	14:31	LB135063
	Chromium	529	520	102	90 - 110	P	03/17/2025	14:31	LB135063
	Cobalt	510	520	98	90 - 110	P	03/17/2025	14:31	LB135063
	Copper	528	510	104	90 - 110	P	03/17/2025	14:31	LB135063
	Iron	10100	10000	101	90 - 110	P	03/17/2025	14:31	LB135063
	Lead	996	1000	100	90 - 110	P	03/17/2025	14:31	LB135063
	Magnesium	5840	6000	97	90 - 110	P	03/17/2025	14:31	LB135063
	Manganese	499	520	96	90 - 110	P	03/17/2025	14:31	LB135063
	Nickel	512	530	97	90 - 110	P	03/17/2025	14:31	LB135063
	Potassium	9780	9900	99	90 - 110	P	03/17/2025	14:31	LB135063
	Selenium	1050	1000	105	90 - 110	P	03/17/2025	14:31	LB135063
	Silver	257	250	103	90 - 110	P	03/17/2025	14:31	LB135063
	Sodium	9920	10000	99	90 - 110	P	03/17/2025	14:31	LB135063
	Thallium	1040	1000	104	90 - 110	P	03/17/2025	14:31	LB135063
	Vanadium	519	500	104	90 - 110	P	03/17/2025	14:31	LB135063
	Zinc	1040	1000	104	90 - 110	P	03/17/2025	14:31	LB135063

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: APTIM **SDG No.:** Q1543

Contract: SHAW18 **Lab Code:** CHEM **Case No.:** Q1543 **SAS No.:** Q1543

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	93.8	100	94	80 - 120	P	03/17/2025	14:38	LB135063
	Antimony	49.8	50.0	100	80 - 120	P	03/17/2025	14:38	LB135063
	Arsenic	19.4	20.0	97	80 - 120	P	03/17/2025	14:38	LB135063
	Barium	93.6	100	94	80 - 120	P	03/17/2025	14:38	LB135063
	Beryllium	5.93	6.0	99	80 - 120	P	03/17/2025	14:38	LB135063
	Cadmium	5.89	6.0	98	80 - 120	P	03/17/2025	14:38	LB135063
	Calcium	1970	2000	98	80 - 120	P	03/17/2025	14:38	LB135063
	Chromium	10.3	10.0	103	80 - 120	P	03/17/2025	14:38	LB135063
	Cobalt	29.3	30.0	98	80 - 120	P	03/17/2025	14:38	LB135063
	Copper	22.1	20.0	110	80 - 120	P	03/17/2025	14:38	LB135063
	Iron	99.8	100	100	80 - 120	P	03/17/2025	14:38	LB135063
	Lead	12.3	12.0	103	80 - 120	P	03/17/2025	14:38	LB135063
	Magnesium	2090	2000	104	80 - 120	P	03/17/2025	14:38	LB135063
	Manganese	21.9	20.0	110	80 - 120	P	03/17/2025	14:38	LB135063
	Nickel	39.3	40.0	98	80 - 120	P	03/17/2025	14:38	LB135063
	Potassium	1960	2000	98	80 - 120	P	03/17/2025	14:38	LB135063
	Selenium	18.2	20.0	91	80 - 120	P	03/17/2025	14:38	LB135063
	Silver	10.5	10.0	105	80 - 120	P	03/17/2025	14:38	LB135063
	Sodium	2000	2000	100	80 - 120	P	03/17/2025	14:38	LB135063
	Thallium	42.4	40.0	106	80 - 120	P	03/17/2025	14:38	LB135063
	Vanadium	39.2	40.0	98	80 - 120	P	03/17/2025	14:38	LB135063
	Zinc	42.5	40.0	106	80 - 120	P	03/17/2025	14:38	LB135063

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: APTIM **SDG No.:** Q1543

Contract: SHAW18 **Lab Code:** CHEM **Case No.:** Q1543 **SAS No.:** Q1543

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	10000	10000	100	90 - 110	P	03/17/2025	15:15	LB135063
	Antimony	5170	5000	103	90 - 110	P	03/17/2025	15:15	LB135063
	Arsenic	5160	5000	103	90 - 110	P	03/17/2025	15:15	LB135063
	Barium	9740	10000	97	90 - 110	P	03/17/2025	15:15	LB135063
	Beryllium	250	250	100	90 - 110	P	03/17/2025	15:15	LB135063
	Cadmium	2510	2500	100	90 - 110	P	03/17/2025	15:15	LB135063
	Calcium	24700	25000	99	90 - 110	P	03/17/2025	15:15	LB135063
	Chromium	1030	1000	103	90 - 110	P	03/17/2025	15:15	LB135063
	Cobalt	2500	2500	100	90 - 110	P	03/17/2025	15:15	LB135063
	Copper	1270	1250	102	90 - 110	P	03/17/2025	15:15	LB135063
	Iron	5180	5000	104	90 - 110	P	03/17/2025	15:15	LB135063
	Lead	5080	5000	102	90 - 110	P	03/17/2025	15:15	LB135063
	Magnesium	24700	25000	99	90 - 110	P	03/17/2025	15:15	LB135063
	Manganese	2410	2500	96	90 - 110	P	03/17/2025	15:15	LB135063
	Nickel	2490	2500	100	90 - 110	P	03/17/2025	15:15	LB135063
	Potassium	25700	25000	103	90 - 110	P	03/17/2025	15:15	LB135063
	Selenium	5080	5000	102	90 - 110	P	03/17/2025	15:15	LB135063
	Silver	1310	1250	104	90 - 110	P	03/17/2025	15:15	LB135063
	Sodium	26200	25000	105	90 - 110	P	03/17/2025	15:15	LB135063
	Thallium	5180	5000	104	90 - 110	P	03/17/2025	15:15	LB135063
	Vanadium	2500	2500	100	90 - 110	P	03/17/2025	15:15	LB135063
	Zinc	2620	2500	105	90 - 110	P	03/17/2025	15:15	LB135063
CCV02	Aluminum	9980	10000	100	90 - 110	P	03/17/2025	16:13	LB135063
	Antimony	5260	5000	105	90 - 110	P	03/17/2025	16:13	LB135063
	Arsenic	5220	5000	104	90 - 110	P	03/17/2025	16:13	LB135063
	Barium	9760	10000	98	90 - 110	P	03/17/2025	16:13	LB135063
	Beryllium	244	250	98	90 - 110	P	03/17/2025	16:13	LB135063
	Cadmium	2500	2500	100	90 - 110	P	03/17/2025	16:13	LB135063
	Calcium	24300	25000	97	90 - 110	P	03/17/2025	16:13	LB135063
	Chromium	1040	1000	104	90 - 110	P	03/17/2025	16:13	LB135063
	Cobalt	2480	2500	99	90 - 110	P	03/17/2025	16:13	LB135063
	Copper	1280	1250	102	90 - 110	P	03/17/2025	16:13	LB135063
	Iron	5090	5000	102	90 - 110	P	03/17/2025	16:13	LB135063
	Lead	5070	5000	101	90 - 110	P	03/17/2025	16:13	LB135063

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: APTIM **SDG No.:** Q1543

Contract: SHAW18 **Lab Code:** CHEM **Case No.:** Q1543 **SAS No.:** Q1543

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	24200	25000	97	90 - 110	P	03/17/2025	16:13	LB135063
	Manganese	2350	2500	94	90 - 110	P	03/17/2025	16:13	LB135063
	Nickel	2470	2500	99	90 - 110	P	03/17/2025	16:13	LB135063
	Potassium	25600	25000	102	90 - 110	P	03/17/2025	16:13	LB135063
	Selenium	5140	5000	103	90 - 110	P	03/17/2025	16:13	LB135063
	Silver	1290	1250	103	90 - 110	P	03/17/2025	16:13	LB135063
	Sodium	26400	25000	106	90 - 110	P	03/17/2025	16:13	LB135063
	Thallium	5230	5000	105	90 - 110	P	03/17/2025	16:13	LB135063
	Vanadium	2470	2500	99	90 - 110	P	03/17/2025	16:13	LB135063
	Zinc	2590	2500	104	90 - 110	P	03/17/2025	16:13	LB135063
CCV03	Aluminum	10400	10000	104	90 - 110	P	03/17/2025	17:05	LB135063
	Antimony	5370	5000	107	90 - 110	P	03/17/2025	17:05	LB135063
	Arsenic	5320	5000	106	90 - 110	P	03/17/2025	17:05	LB135063
	Barium	9780	10000	98	90 - 110	P	03/17/2025	17:05	LB135063
	Beryllium	260	250	104	90 - 110	P	03/17/2025	17:05	LB135063
	Cadmium	2570	2500	103	90 - 110	P	03/17/2025	17:05	LB135063
	Calcium	25100	25000	101	90 - 110	P	03/17/2025	17:05	LB135063
	Chromium	1090	1000	109	90 - 110	P	03/17/2025	17:05	LB135063
	Cobalt	2540	2500	102	90 - 110	P	03/17/2025	17:05	LB135063
	Copper	1310	1250	104	90 - 110	P	03/17/2025	17:05	LB135063
	Iron	5130	5000	103	90 - 110	P	03/17/2025	17:05	LB135063
	Lead	5200	5000	104	90 - 110	P	03/17/2025	17:05	LB135063
	Magnesium	25600	25000	102	90 - 110	P	03/17/2025	17:05	LB135063
	Manganese	2430	2500	97	90 - 110	P	03/17/2025	17:05	LB135063
	Nickel	2530	2500	101	90 - 110	P	03/17/2025	17:05	LB135063
	Potassium	25500	25000	102	90 - 110	P	03/17/2025	17:05	LB135063
	Selenium	5220	5000	104	90 - 110	P	03/17/2025	17:05	LB135063
	Silver	1330	1250	106	90 - 110	P	03/17/2025	17:05	LB135063
	Sodium	26400	25000	106	90 - 110	P	03/17/2025	17:05	LB135063
	Thallium	5350	5000	107	90 - 110	P	03/17/2025	17:05	LB135063
	Vanadium	2560	2500	103	90 - 110	P	03/17/2025	17:05	LB135063
	Zinc	2680	2500	107	90 - 110	P	03/17/2025	17:05	LB135063
CCV04	Aluminum	9640	10000	96	90 - 110	P	03/17/2025	17:51	LB135063
	Antimony	5070	5000	101	90 - 110	P	03/17/2025	17:51	LB135063

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: APTIM **SDG No.:** Q1543

Contract: SHAW18 **Lab Code:** CHEM **Case No.:** Q1543 **SAS No.:** Q1543

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	5020	5000	100	90 - 110	P	03/17/2025	17:51	LB135063
	Barium	9270	10000	93	90 - 110	P	03/17/2025	17:51	LB135063
	Beryllium	238	250	95	90 - 110	P	03/17/2025	17:51	LB135063
	Cadmium	2390	2500	96	90 - 110	P	03/17/2025	17:51	LB135063
	Calcium	23600	25000	94	90 - 110	P	03/17/2025	17:51	LB135063
	Chromium	1010	1000	101	90 - 110	P	03/17/2025	17:51	LB135063
	Cobalt	2370	2500	95	90 - 110	P	03/17/2025	17:51	LB135063
	Copper	1230	1250	98	90 - 110	P	03/17/2025	17:51	LB135063
	Iron	4880	5000	98	90 - 110	P	03/17/2025	17:51	LB135063
	Lead	4870	5000	97	90 - 110	P	03/17/2025	17:51	LB135063
	Magnesium	23600	25000	94	90 - 110	P	03/17/2025	17:51	LB135063
	Manganese	2270	2500	91	90 - 110	P	03/17/2025	17:51	LB135063
	Nickel	2360	2500	94	90 - 110	P	03/17/2025	17:51	LB135063
	Potassium	24300	25000	97	90 - 110	P	03/17/2025	17:51	LB135063
	Selenium	4900	5000	98	90 - 110	P	03/17/2025	17:51	LB135063
	Silver	1240	1250	100	90 - 110	P	03/17/2025	17:51	LB135063
	Sodium	25000	25000	100	90 - 110	P	03/17/2025	17:51	LB135063
	Thallium	4970	5000	99	90 - 110	P	03/17/2025	17:51	LB135063
	Vanadium	2400	2500	96	90 - 110	P	03/17/2025	17:51	LB135063
	Zinc	2510	2500	100	90 - 110	P	03/17/2025	17:51	LB135063
CCV05	Aluminum	9710	10000	97	90 - 110	P	03/17/2025	18:18	LB135063
	Antimony	5140	5000	103	90 - 110	P	03/17/2025	18:18	LB135063
	Arsenic	5050	5000	101	90 - 110	P	03/17/2025	18:18	LB135063
	Barium	9500	10000	95	90 - 110	P	03/17/2025	18:18	LB135063
	Beryllium	236	250	94	90 - 110	P	03/17/2025	18:18	LB135063
	Cadmium	2390	2500	96	90 - 110	P	03/17/2025	18:18	LB135063
	Calcium	23600	25000	94	90 - 110	P	03/17/2025	18:18	LB135063
	Chromium	1020	1000	102	90 - 110	P	03/17/2025	18:18	LB135063
	Cobalt	2380	2500	95	90 - 110	P	03/17/2025	18:18	LB135063
	Copper	1240	1250	99	90 - 110	P	03/17/2025	18:18	LB135063
	Iron	4960	5000	99	90 - 110	P	03/17/2025	18:18	LB135063
	Lead	4870	5000	97	90 - 110	P	03/17/2025	18:18	LB135063
	Magnesium	23400	25000	93	90 - 110	P	03/17/2025	18:18	LB135063
	Manganese	2260	2500	90	90 - 110	P	03/17/2025	18:18	LB135063

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: APTIM **SDG No.:** Q1543

Contract: SHAW18 **Lab Code:** CHEM **Case No.:** Q1543 **SAS No.:** Q1543

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	2360	2500	94	90 - 110	P	03/17/2025	18:18	LB135063
	Potassium	25100	25000	100	90 - 110	P	03/17/2025	18:18	LB135063
	Selenium	4960	5000	99	90 - 110	P	03/17/2025	18:18	LB135063
	Silver	1260	1250	101	90 - 110	P	03/17/2025	18:18	LB135063
	Sodium	25900	25000	103	90 - 110	P	03/17/2025	18:18	LB135063
	Thallium	4940	5000	99	90 - 110	P	03/17/2025	18:18	LB135063
	Vanadium	2400	2500	96	90 - 110	P	03/17/2025	18:18	LB135063
	Zinc	2540	2500	102	90 - 110	P	03/17/2025	18:18	LB135063