

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: Q1782
Contract: LOCK01 Lab Code: CHEM Case No.: Q1782 SAS No.: Q1782
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	Antimony	1050	1000	105	90 - 110	P	04/15/2025	15:47	lb135445
	Arsenic	1020	1000	102	90 - 110	P	04/15/2025	15:47	lb135445
	Barium	548	520	105	90 - 110	P	04/15/2025	15:47	lb135445
	Beryllium	488	510	96	90 - 110	P	04/15/2025	15:47	lb135445
	Cadmium	493	510	97	90 - 110	P	04/15/2025	15:47	lb135445
	Chromium	506	520	97	90 - 110	P	04/15/2025	15:47	lb135445
	Cobalt	478	520	92	90 - 110	P	04/15/2025	15:47	lb135445
	Copper	508	510	100	90 - 110	P	04/15/2025	15:47	lb135445
	Iron	9690	10000	97	90 - 110	P	04/15/2025	15:47	lb135445
	Lead	973	1000	97	90 - 110	P	04/15/2025	15:47	lb135445
	Manganese	489	520	94	90 - 110	P	04/15/2025	15:47	lb135445
	Nickel	480	530	90	90 - 110	P	04/15/2025	15:47	lb135445
	Potassium	10100	9900	102	90 - 110	P	04/15/2025	15:47	lb135445
	Selenium	1070	1000	107	90 - 110	P	04/15/2025	15:47	lb135445
	Silver	247	250	99	90 - 110	P	04/15/2025	15:47	lb135445
	Sodium	10800	10000	108	90 - 110	P	04/15/2025	15:47	lb135445
	Thallium	1050	1000	105	90 - 110	P	04/15/2025	15:47	lb135445
	Vanadium	474	500	95	90 - 110	P	04/15/2025	15:47	lb135445
	Zinc	1010	1000	100	90 - 110	P	04/15/2025	15:47	lb135445

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV	Antimony	51.5	50.0	103	80 - 120	P	04/15/2025	15:51	lb135445
	Arsenic	22.8	20.0	114	80 - 120	P	04/15/2025	15:51	lb135445
	Barium	95.1	100	95	80 - 120	P	04/15/2025	15:51	lb135445
	Beryllium	5.81	6.0	97	80 - 120	P	04/15/2025	15:51	lb135445
	Cadmium	5.96	6.0	99	80 - 120	P	04/15/2025	15:51	lb135445
	Chromium	9.28	10.0	93	80 - 120	P	04/15/2025	15:51	lb135445
	Cobalt	28.6	30.0	95	80 - 120	P	04/15/2025	15:51	lb135445
	Copper	21.4	20.0	107	80 - 120	P	04/15/2025	15:51	lb135445
	Iron	92.9	100	93	80 - 120	P	04/15/2025	15:51	lb135445
	Lead	12.1	12.0	101	80 - 120	P	04/15/2025	15:51	lb135445
	Manganese	20.5	20.0	103	80 - 120	P	04/15/2025	15:51	lb135445
	Nickel	38.4	40.0	96	80 - 120	P	04/15/2025	15:51	lb135445
	Potassium	2040	2000	102	80 - 120	P	04/15/2025	15:51	lb135445
	Selenium	22.5	20.0	113	80 - 120	P	04/15/2025	15:51	lb135445
	Silver	10.5	10.0	104	80 - 120	P	04/15/2025	15:51	lb135445
	Sodium	1820	2000	91	80 - 120	P	04/15/2025	15:51	lb135445
	Thallium	44.9	40.0	112	80 - 120	P	04/15/2025	15:51	lb135445
	Vanadium	38.8	40.0	97	80 - 120	P	04/15/2025	15:51	lb135445
	Zinc	42.3	40.0	106	80 - 120	P	04/15/2025	15:51	lb135445

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Contract: LOCK01 **Lab Code:** CHEM **Case No.:** Q1782 **SAS No.:** Q1782

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	Antimony	5020	5000	100	90 - 110	P	04/15/2025	16:26	lb135445
	Arsenic	5010	5000	100	90 - 110	P	04/15/2025	16:26	lb135445
	Barium	9820	10000	98	90 - 110	P	04/15/2025	16:26	lb135445
	Beryllium	249	250	100	90 - 110	P	04/15/2025	16:26	lb135445
	Cadmium	2440	2500	98	90 - 110	P	04/15/2025	16:26	lb135445
	Chromium	994	1000	99	90 - 110	P	04/15/2025	16:26	lb135445
	Cobalt	2450	2500	98	90 - 110	P	04/15/2025	16:26	lb135445
	Copper	1250	1250	100	90 - 110	P	04/15/2025	16:26	lb135445
	Iron	4940	5000	99	90 - 110	P	04/15/2025	16:26	lb135445
	Lead	4940	5000	99	90 - 110	P	04/15/2025	16:26	lb135445
	Manganese	2460	2500	98	90 - 110	P	04/15/2025	16:26	lb135445
	Nickel	2450	2500	98	90 - 110	P	04/15/2025	16:26	lb135445
	Potassium	25900	25000	104	90 - 110	P	04/15/2025	16:26	lb135445
	Selenium	5040	5000	101	90 - 110	P	04/15/2025	16:26	lb135445
	Silver	1240	1250	99	90 - 110	P	04/15/2025	16:26	lb135445
	Sodium	25600	25000	102	90 - 110	P	04/15/2025	16:26	lb135445
	Thallium	5080	5000	102	90 - 110	P	04/15/2025	16:26	lb135445
	Vanadium	2460	2500	98	90 - 110	P	04/15/2025	16:26	lb135445
	Zinc	2500	2500	100	90 - 110	P	04/15/2025	16:26	lb135445
CCV02	Antimony	4880	5000	98	90 - 110	P	04/15/2025	17:16	lb135445
	Arsenic	4870	5000	97	90 - 110	P	04/15/2025	17:16	lb135445
	Barium	9630	10000	96	90 - 110	P	04/15/2025	17:16	lb135445
	Beryllium	245	250	98	90 - 110	P	04/15/2025	17:16	lb135445
	Cadmium	2390	2500	96	90 - 110	P	04/15/2025	17:16	lb135445
	Chromium	988	1000	99	90 - 110	P	04/15/2025	17:16	lb135445
	Cobalt	2400	2500	96	90 - 110	P	04/15/2025	17:16	lb135445
	Copper	1220	1250	98	90 - 110	P	04/15/2025	17:16	lb135445
	Iron	4870	5000	97	90 - 110	P	04/15/2025	17:16	lb135445
	Lead	4820	5000	96	90 - 110	P	04/15/2025	17:16	lb135445
	Manganese	2410	2500	96	90 - 110	P	04/15/2025	17:16	lb135445
	Nickel	2400	2500	96	90 - 110	P	04/15/2025	17:16	lb135445
	Potassium	25400	25000	102	90 - 110	P	04/15/2025	17:16	lb135445
	Selenium	4880	5000	98	90 - 110	P	04/15/2025	17:16	lb135445
	Silver	1230	1250	98	90 - 110	P	04/15/2025	17:16	lb135445

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Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** Q1782

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** Q1782 **SAS No.:** Q1782

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	Sodium	25100	25000	100	90 - 110	P	04/15/2025	17:16	lb135445
	Thallium	4960	5000	99	90 - 110	P	04/15/2025	17:16	lb135445
	Vanadium	2420	2500	97	90 - 110	P	04/15/2025	17:16	lb135445
	Zinc	2460	2500	98	90 - 110	P	04/15/2025	17:16	lb135445
CCV03	Antimony	4980	5000	100	90 - 110	P	04/15/2025	18:07	lb135445
	Arsenic	4970	5000	99	90 - 110	P	04/15/2025	18:07	lb135445
	Barium	9800	10000	98	90 - 110	P	04/15/2025	18:07	lb135445
	Beryllium	242	250	97	90 - 110	P	04/15/2025	18:07	lb135445
	Cadmium	2440	2500	98	90 - 110	P	04/15/2025	18:07	lb135445
	Chromium	996	1000	100	90 - 110	P	04/15/2025	18:07	lb135445
	Cobalt	2440	2500	98	90 - 110	P	04/15/2025	18:07	lb135445
	Copper	1240	1250	99	90 - 110	P	04/15/2025	18:07	lb135445
	Iron	5050	5000	101	90 - 110	P	04/15/2025	18:07	lb135445
	Lead	4910	5000	98	90 - 110	P	04/15/2025	18:07	lb135445
	Manganese	2420	2500	97	90 - 110	P	04/15/2025	18:07	lb135445
	Nickel	2440	2500	98	90 - 110	P	04/15/2025	18:07	lb135445
	Potassium	25200	25000	101	90 - 110	P	04/15/2025	18:07	lb135445
	Selenium	5010	5000	100	90 - 110	P	04/15/2025	18:07	lb135445
	Silver	1240	1250	99	90 - 110	P	04/15/2025	18:07	lb135445
	Sodium	25000	25000	100	90 - 110	P	04/15/2025	18:07	lb135445
	Thallium	5020	5000	100	90 - 110	P	04/15/2025	18:07	lb135445
	Vanadium	2440	2500	98	90 - 110	P	04/15/2025	18:07	lb135445
	Zinc	2490	2500	100	90 - 110	P	04/15/2025	18:07	lb135445
CCV04	Antimony	4970	5000	100	90 - 110	P	04/15/2025	19:08	lb135445
	Arsenic	4980	5000	100	90 - 110	P	04/15/2025	19:08	lb135445
	Barium	9680	10000	97	90 - 110	P	04/15/2025	19:08	lb135445
	Beryllium	246	250	98	90 - 110	P	04/15/2025	19:08	lb135445
	Cadmium	2460	2500	98	90 - 110	P	04/15/2025	19:08	lb135445
	Chromium	994	1000	99	90 - 110	P	04/15/2025	19:08	lb135445
	Cobalt	2460	2500	98	90 - 110	P	04/15/2025	19:08	lb135445
	Copper	1240	1250	99	90 - 110	P	04/15/2025	19:08	lb135445
	Iron	4910	5000	98	90 - 110	P	04/15/2025	19:08	lb135445
	Lead	4950	5000	99	90 - 110	P	04/15/2025	19:08	lb135445
	Manganese	2440	2500	97	90 - 110	P	04/15/2025	19:08	lb135445

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** Q1782

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** Q1782 **SAS No.:** Q1782

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	Nickel	2460	2500	98	90 - 110	P	04/15/2025	19:08	lb135445
	Potassium	24400	25000	98	90 - 110	P	04/15/2025	19:08	lb135445
	Selenium	5000	5000	100	90 - 110	P	04/15/2025	19:08	lb135445
	Silver	1230	1250	98	90 - 110	P	04/15/2025	19:08	lb135445
	Sodium	24100	25000	96	90 - 110	P	04/15/2025	19:08	lb135445
	Thallium	5020	5000	100	90 - 110	P	04/15/2025	19:08	lb135445
	Vanadium	2460	2500	98	90 - 110	P	04/15/2025	19:08	lb135445
	Zinc	2470	2500	99	90 - 110	P	04/15/2025	19:08	lb135445
CCV05	Antimony	4830	5000	96	90 - 110	P	04/15/2025	19:59	lb135445
	Arsenic	4820	5000	96	90 - 110	P	04/15/2025	19:59	lb135445
	Barium	9600	10000	96	90 - 110	P	04/15/2025	19:59	lb135445
	Beryllium	238	250	95	90 - 110	P	04/15/2025	19:59	lb135445
	Cadmium	2390	2500	96	90 - 110	P	04/15/2025	19:59	lb135445
	Chromium	972	1000	97	90 - 110	P	04/15/2025	19:59	lb135445
	Cobalt	2390	2500	96	90 - 110	P	04/15/2025	19:59	lb135445
	Copper	1200	1250	96	90 - 110	P	04/15/2025	19:59	lb135445
	Iron	4870	5000	97	90 - 110	P	04/15/2025	19:59	lb135445
	Lead	4830	5000	97	90 - 110	P	04/15/2025	19:59	lb135445
	Manganese	2390	2500	96	90 - 110	P	04/15/2025	19:59	lb135445
	Nickel	2400	2500	96	90 - 110	P	04/15/2025	19:59	lb135445
	Potassium	24100	25000	97	90 - 110	P	04/15/2025	19:59	lb135445
	Selenium	4840	5000	97	90 - 110	P	04/15/2025	19:59	lb135445
	Silver	1210	1250	96	90 - 110	P	04/15/2025	19:59	lb135445
	Sodium	24000	25000	96	90 - 110	P	04/15/2025	19:59	lb135445
	Thallium	4850	5000	97	90 - 110	P	04/15/2025	19:59	lb135445
	Vanadium	2400	2500	96	90 - 110	P	04/15/2025	19:59	lb135445
	Zinc	2410	2500	96	90 - 110	P	04/15/2025	19:59	lb135445
	Antimony	4980	5000	100	90 - 110	P	04/15/2025	20:51	lb135445
CCV06	Arsenic	4980	5000	100	90 - 110	P	04/15/2025	20:51	lb135445
	Barium	9450	10000	94	90 - 110	P	04/15/2025	20:51	lb135445
	Beryllium	245	250	98	90 - 110	P	04/15/2025	20:51	lb135445
	Cadmium	2460	2500	98	90 - 110	P	04/15/2025	20:51	lb135445
	Chromium	1010	1000	100	90 - 110	P	04/15/2025	20:51	lb135445
	Cobalt	2450	2500	98	90 - 110	P	04/15/2025	20:51	lb135445

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** Q1782

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** Q1782 **SAS No.:** Q1782

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
CCV06	Copper	1230	1250	98	90 - 110	P	04/15/2025	20:51	lb135445
	Iron	4940	5000	99	90 - 110	P	04/15/2025	20:51	lb135445
	Lead	4960	5000	99	90 - 110	P	04/15/2025	20:51	lb135445
	Manganese	2380	2500	95	90 - 110	P	04/15/2025	20:51	lb135445
	Nickel	2470	2500	99	90 - 110	P	04/15/2025	20:51	lb135445
	Potassium	25300	25000	101	90 - 110	P	04/15/2025	20:51	lb135445
	Selenium	4980	5000	100	90 - 110	P	04/15/2025	20:51	lb135445
	Silver	1240	1250	99	90 - 110	P	04/15/2025	20:51	lb135445
	Sodium	24900	25000	100	90 - 110	P	04/15/2025	20:51	lb135445
	Thallium	5000	5000	100	90 - 110	P	04/15/2025	20:51	lb135445
	Vanadium	2430	2500	97	90 - 110	P	04/15/2025	20:51	lb135445
	Zinc	2490	2500	99	90 - 110	P	04/15/2025	20:51	lb135445
CCV07	Antimony	4940	5000	99	90 - 110	P	04/15/2025	21:43	lb135445
	Arsenic	4960	5000	99	90 - 110	P	04/15/2025	21:43	lb135445
	Barium	9520	10000	95	90 - 110	P	04/15/2025	21:43	lb135445
	Beryllium	246	250	98	90 - 110	P	04/15/2025	21:43	lb135445
	Cadmium	2460	2500	98	90 - 110	P	04/15/2025	21:43	lb135445
	Chromium	991	1000	99	90 - 110	P	04/15/2025	21:43	lb135445
	Cobalt	2450	2500	98	90 - 110	P	04/15/2025	21:43	lb135445
	Copper	1220	1250	98	90 - 110	P	04/15/2025	21:43	lb135445
	Iron	4840	5000	97	90 - 110	P	04/15/2025	21:43	lb135445
	Lead	4950	5000	99	90 - 110	P	04/15/2025	21:43	lb135445
	Manganese	2370	2500	95	90 - 110	P	04/15/2025	21:43	lb135445
	Nickel	2480	2500	99	90 - 110	P	04/15/2025	21:43	lb135445
	Potassium	24200	25000	97	90 - 110	P	04/15/2025	21:43	lb135445
	Selenium	5000	5000	100	90 - 110	P	04/15/2025	21:43	lb135445
	Silver	1230	1250	98	90 - 110	P	04/15/2025	21:43	lb135445
	Sodium	23900	25000	96	90 - 110	P	04/15/2025	21:43	lb135445
	Thallium	4850	5000	97	90 - 110	P	04/15/2025	21:43	lb135445
	Vanadium	2410	2500	96	90 - 110	P	04/15/2025	21:43	lb135445
	Zinc	2460	2500	98	90 - 110	P	04/15/2025	21:43	lb135445
	Antimony	4900	5000	98	90 - 110	P	04/15/2025	22:25	lb135445
CCV08	Arsenic	4920	5000	98	90 - 110	P	04/15/2025	22:25	lb135445
	Barium	9440	10000	94	90 - 110	P	04/15/2025	22:25	lb135445

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Contract: LOCK01 Lab Code: CHEM Case No.: Q1782 SAS No.: Q1782
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Beryllium	248	250	99	90 - 110	P	04/15/2025	22:25	lb135445
	Cadmium	2460	2500	98	90 - 110	P	04/15/2025	22:25	lb135445
	Chromium	993	1000	99	90 - 110	P	04/15/2025	22:25	lb135445
	Cobalt	2440	2500	98	90 - 110	P	04/15/2025	22:25	lb135445
	Copper	1210	1250	97	90 - 110	P	04/15/2025	22:25	lb135445
	Iron	4820	5000	96	90 - 110	P	04/15/2025	22:25	lb135445
	Lead	4940	5000	99	90 - 110	P	04/15/2025	22:25	lb135445
	Manganese	2370	2500	95	90 - 110	P	04/15/2025	22:25	lb135445
	Nickel	2470	2500	99	90 - 110	P	04/15/2025	22:25	lb135445
	Potassium	24000	25000	96	90 - 110	P	04/15/2025	22:25	lb135445
	Selenium	4940	5000	99	90 - 110	P	04/15/2025	22:25	lb135445
	Silver	1230	1250	98	90 - 110	P	04/15/2025	22:25	lb135445
	Sodium	23500	25000	94	90 - 110	P	04/15/2025	22:25	lb135445
	Thallium	4950	5000	99	90 - 110	P	04/15/2025	22:25	lb135445
	Vanadium	2410	2500	96	90 - 110	P	04/15/2025	22:25	lb135445
	Zinc	2460	2500	98	90 - 110	P	04/15/2025	22:25	lb135445