

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
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
ICV31	Mercury	4.04	4.0	101	90 - 110	CV	06/10/2025	10:39	LB136079

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Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

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	4.62	5.0	92	90 - 110	CV	06/10/2025	10:43	LB136079
CCV18	Mercury	4.87	5.0	98	90 - 110	CV	06/10/2025	11:32	LB136079
CCV19	Mercury	5.40	5.0	108	90 - 110	CV	06/10/2025	12:12	LB136079
CCV20	Mercury	4.67	5.0	93	90 - 110	CV	06/10/2025	12:57	LB136079
CCV21	Mercury	5.40	5.0	108	90 - 110	CV	06/10/2025	13:30	LB136079
CCV22	Mercury	4.85	5.0	97	90 - 110	CV	06/10/2025	14:28	LB136079

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Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250
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
ICV01	Aluminum	461	500	92	90 - 110	P	06/11/2025	18:48	LB136121
	Antimony	191	200	95	90 - 110	P	06/11/2025	18:48	LB136121
	Arsenic	215	200	107	90 - 110	P	06/11/2025	18:48	LB136121
	Barium	98.7	100	99	90 - 110	P	06/11/2025	18:48	LB136121
	Beryllium	100	100	100	90 - 110	P	06/11/2025	18:48	LB136121
	Cadmium	108	100	108	90 - 110	P	06/11/2025	18:48	LB136121
	Calcium	1960	2000	98	90 - 110	P	06/11/2025	18:48	LB136121
	Chromium	101	100	101	90 - 110	P	06/11/2025	18:48	LB136121
	Cobalt	105	100	105	90 - 110	P	06/11/2025	18:48	LB136121
	Copper	99.0	100	99	90 - 110	P	06/11/2025	18:48	LB136121
	Iron	2000	2000	100	90 - 110	P	06/11/2025	18:48	LB136121
	Lead	186	200	93	90 - 110	P	06/11/2025	18:48	LB136121
	Magnesium	1090	1200	91	90 - 110	P	06/11/2025	18:48	LB136121
	Manganese	100	100	100	90 - 110	P	06/11/2025	18:48	LB136121
	Nickel	112	110	102	90 - 110	P	06/11/2025	18:48	LB136121
	Potassium	1940	2000	97	90 - 110	P	06/11/2025	18:48	LB136121
	Selenium	194	200	97	90 - 110	P	06/11/2025	18:48	LB136121
	Silver	46.7	50.0	93	90 - 110	P	06/11/2025	18:48	LB136121
	Sodium	1900	2000	95	90 - 110	P	06/11/2025	18:48	LB136121
	Thallium	194	210	92	90 - 110	P	06/11/2025	18:48	LB136121
	Vanadium	97.6	100	98	90 - 110	P	06/11/2025	18:48	LB136121
	Zinc	197	200	99	90 - 110	P	06/11/2025	18:48	LB136121

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Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250
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
LLICV01	Aluminum	16.7	20.0	83	80 - 120	P	06/11/2025	19:00	LB136121
	Antimony	2.00	2.0	100	80 - 120	P	06/11/2025	19:00	LB136121
	Arsenic	1.15	1.0	115	80 - 120	P	06/11/2025	19:00	LB136121
	Barium	9.49	10.0	95	80 - 120	P	06/11/2025	19:00	LB136121
	Beryllium	1.05	1.0	105	80 - 120	P	06/11/2025	19:00	LB136121
	Cadmium	1.06	1.0	106	80 - 120	P	06/11/2025	19:00	LB136121
	Calcium	474	500	95	80 - 120	P	06/11/2025	19:00	LB136121
	Chromium	1.84	2.0	92	80 - 120	P	06/11/2025	19:00	LB136121
	Cobalt	0.99	1.0	99	80 - 120	P	06/11/2025	19:00	LB136121
	Copper	1.98	2.0	99	80 - 120	P	06/11/2025	19:00	LB136121
	Iron	52.6	50.0	105	80 - 120	P	06/11/2025	19:00	LB136121
	Lead	0.90	1.0	90	80 - 120	P	06/11/2025	19:00	LB136121
	Magnesium	430	500	86	80 - 120	P	06/11/2025	19:00	LB136121
	Manganese	1.10	1.0	110	80 - 120	P	06/11/2025	19:00	LB136121
	Nickel	1.05	1.0	105	80 - 120	P	06/11/2025	19:00	LB136121
	Potassium	485	500	97	80 - 120	P	06/11/2025	19:00	LB136121
	Selenium	5.98	5.0	120	80 - 120	P	06/11/2025	19:00	LB136121
	Silver	1.07	1.0	107	80 - 120	P	06/11/2025	19:00	LB136121
	Sodium	471	500	94	80 - 120	P	06/11/2025	19:00	LB136121
	Thallium	0.88	1.0	88	80 - 120	P	06/11/2025	19:00	LB136121
	Vanadium	4.94	5.0	99	80 - 120	P	06/11/2025	19:00	LB136121
	Zinc	5.06	5.0	101	80 - 120	P	06/11/2025	19:00	LB136121

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Client: JACOBS Engineering Group, Inc. SDG No.: Q2250
Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250
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
CCV01	Aluminum	49600	50000	99	90 - 110	P	06/11/2025	19:29	LB136121
	Antimony	523	500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Arsenic	483	500	97	90 - 110	P	06/11/2025	19:29	LB136121
	Barium	2620	2500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Beryllium	527	500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Cadmium	503	500	101	90 - 110	P	06/11/2025	19:29	LB136121
	Calcium	259000	250000	104	90 - 110	P	06/11/2025	19:29	LB136121
	Chromium	466	500	93	90 - 110	P	06/11/2025	19:29	LB136121
	Cobalt	460	500	92	90 - 110	P	06/11/2025	19:29	LB136121
	Copper	4770	5000	95	90 - 110	P	06/11/2025	19:29	LB136121
	Iron	127000	125000	102	90 - 110	P	06/11/2025	19:29	LB136121
	Lead	2650	2500	106	90 - 110	P	06/11/2025	19:29	LB136121
	Magnesium	235000	250000	94	90 - 110	P	06/11/2025	19:29	LB136121
	Manganese	5010	5000	100	90 - 110	P	06/11/2025	19:29	LB136121
	Nickel	483	500	97	90 - 110	P	06/11/2025	19:29	LB136121
	Potassium	126000	125000	101	90 - 110	P	06/11/2025	19:29	LB136121
	Selenium	487	500	97	90 - 110	P	06/11/2025	19:29	LB136121
	Silver	536	500	107	90 - 110	P	06/11/2025	19:29	LB136121
	Sodium	230000	250000	92	90 - 110	P	06/11/2025	19:29	LB136121
	Thallium	525	500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Vanadium	471	500	94	90 - 110	P	06/11/2025	19:29	LB136121
	Zinc	4650	5000	93	90 - 110	P	06/11/2025	19:29	LB136121
CCV02	Aluminum	50800	50000	102	90 - 110	P	06/11/2025	19:52	LB136121
	Antimony	509	500	102	90 - 110	P	06/11/2025	19:52	LB136121
	Arsenic	493	500	99	90 - 110	P	06/11/2025	19:52	LB136121
	Barium	2560	2500	102	90 - 110	P	06/11/2025	19:52	LB136121
	Beryllium	502	500	100	90 - 110	P	06/11/2025	19:52	LB136121
	Cadmium	485	500	97	90 - 110	P	06/11/2025	19:52	LB136121
	Calcium	248000	250000	99	90 - 110	P	06/11/2025	19:52	LB136121
	Chromium	472	500	94	90 - 110	P	06/11/2025	19:52	LB136121
	Cobalt	465	500	93	90 - 110	P	06/11/2025	19:52	LB136121
	Copper	4890	5000	98	90 - 110	P	06/11/2025	19:52	LB136121
	Iron	130000	125000	104	90 - 110	P	06/11/2025	19:52	LB136121
	Lead	2580	2500	103	90 - 110	P	06/11/2025	19:52	LB136121

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Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

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
CCV02	Magnesium	241000	250000	96	90 - 110	P	06/11/2025	19:52	LB136121
	Manganese	5000	5000	100	90 - 110	P	06/11/2025	19:52	LB136121
	Nickel	490	500	98	90 - 110	P	06/11/2025	19:52	LB136121
	Potassium	128000	125000	102	90 - 110	P	06/11/2025	19:52	LB136121
	Selenium	485	500	97	90 - 110	P	06/11/2025	19:52	LB136121
	Silver	515	500	103	90 - 110	P	06/11/2025	19:52	LB136121
	Sodium	230000	250000	92	90 - 110	P	06/11/2025	19:52	LB136121
	Thallium	522	500	104	90 - 110	P	06/11/2025	19:52	LB136121
	Vanadium	475	500	95	90 - 110	P	06/11/2025	19:52	LB136121
	Zinc	4650	5000	93	90 - 110	P	06/11/2025	19:52	LB136121
CCV03	Aluminum	49100	50000	98	90 - 110	P	06/11/2025	20:35	LB136121
	Antimony	500	500	100	90 - 110	P	06/11/2025	20:35	LB136121
	Arsenic	486	500	97	90 - 110	P	06/11/2025	20:35	LB136121
	Barium	2510	2500	100	90 - 110	P	06/11/2025	20:35	LB136121
	Beryllium	509	500	102	90 - 110	P	06/11/2025	20:35	LB136121
	Cadmium	479	500	96	90 - 110	P	06/11/2025	20:35	LB136121
	Calcium	253000	250000	101	90 - 110	P	06/11/2025	20:35	LB136121
	Chromium	468	500	94	90 - 110	P	06/11/2025	20:35	LB136121
	Cobalt	463	500	93	90 - 110	P	06/11/2025	20:35	LB136121
	Copper	4870	5000	98	90 - 110	P	06/11/2025	20:35	LB136121
	Iron	129000	125000	103	90 - 110	P	06/11/2025	20:35	LB136121
	Lead	2570	2500	103	90 - 110	P	06/11/2025	20:35	LB136121
	Magnesium	233000	250000	93	90 - 110	P	06/11/2025	20:35	LB136121
	Manganese	4980	5000	100	90 - 110	P	06/11/2025	20:35	LB136121
	Nickel	487	500	97	90 - 110	P	06/11/2025	20:35	LB136121
	Potassium	127000	125000	102	90 - 110	P	06/11/2025	20:35	LB136121
	Selenium	471	500	94	90 - 110	P	06/11/2025	20:35	LB136121
	Silver	505	500	101	90 - 110	P	06/11/2025	20:35	LB136121
	Sodium	227000	250000	91	90 - 110	P	06/11/2025	20:35	LB136121
	Thallium	521	500	104	90 - 110	P	06/11/2025	20:35	LB136121
	Vanadium	472	500	94	90 - 110	P	06/11/2025	20:35	LB136121
	Zinc	4730	5000	94	90 - 110	P	06/11/2025	20:35	LB136121
CCV04	Aluminum	50000	50000	100	90 - 110	P	06/11/2025	21:16	LB136121
	Antimony	495	500	99	90 - 110	P	06/11/2025	21:16	LB136121

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2250
Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250
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
CCV04	Arsenic	483	500	97	90 - 110	P	06/11/2025	21:16	LB136121
	Barium	2500	2500	100	90 - 110	P	06/11/2025	21:16	LB136121
	Beryllium	512	500	102	90 - 110	P	06/11/2025	21:16	LB136121
	Cadmium	474	500	95	90 - 110	P	06/11/2025	21:16	LB136121
	Calcium	250000	250000	100	90 - 110	P	06/11/2025	21:16	LB136121
	Chromium	471	500	94	90 - 110	P	06/11/2025	21:16	LB136121
	Cobalt	465	500	93	90 - 110	P	06/11/2025	21:16	LB136121
	Copper	4900	5000	98	90 - 110	P	06/11/2025	21:16	LB136121
	Iron	128000	125000	103	90 - 110	P	06/11/2025	21:16	LB136121
	Lead	2580	2500	103	90 - 110	P	06/11/2025	21:16	LB136121
	Magnesium	235000	250000	94	90 - 110	P	06/11/2025	21:16	LB136121
	Manganese	5030	5000	100	90 - 110	P	06/11/2025	21:16	LB136121
	Nickel	490	500	98	90 - 110	P	06/11/2025	21:16	LB136121
	Potassium	127000	125000	102	90 - 110	P	06/11/2025	21:16	LB136121
	Selenium	469	500	94	90 - 110	P	06/11/2025	21:16	LB136121
	Silver	509	500	102	90 - 110	P	06/11/2025	21:16	LB136121
	Sodium	230000	250000	92	90 - 110	P	06/11/2025	21:16	LB136121
	Thallium	523	500	105	90 - 110	P	06/11/2025	21:16	LB136121
	Vanadium	476	500	95	90 - 110	P	06/11/2025	21:16	LB136121
	Zinc	4750	5000	95	90 - 110	P	06/11/2025	21:16	LB136121
CCV05	Aluminum	49800	50000	100	90 - 110	P	06/11/2025	21:34	LB136121
	Antimony	511	500	102	90 - 110	P	06/11/2025	21:34	LB136121
	Arsenic	485	500	97	90 - 110	P	06/11/2025	21:34	LB136121
	Barium	2530	2500	101	90 - 110	P	06/11/2025	21:34	LB136121
	Beryllium	513	500	103	90 - 110	P	06/11/2025	21:34	LB136121
	Cadmium	489	500	98	90 - 110	P	06/11/2025	21:34	LB136121
	Calcium	247000	250000	99	90 - 110	P	06/11/2025	21:34	LB136121
	Chromium	468	500	94	90 - 110	P	06/11/2025	21:34	LB136121
	Cobalt	465	500	93	90 - 110	P	06/11/2025	21:34	LB136121
	Copper	4920	5000	98	90 - 110	P	06/11/2025	21:34	LB136121
	Iron	128000	125000	103	90 - 110	P	06/11/2025	21:34	LB136121
	Lead	2580	2500	103	90 - 110	P	06/11/2025	21:34	LB136121
	Magnesium	234000	250000	94	90 - 110	P	06/11/2025	21:34	LB136121
	Manganese	5030	5000	101	90 - 110	P	06/11/2025	21:34	LB136121

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 Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250
 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
CCV05	Nickel	491	500	98	90 - 110	P	06/11/2025	21:34	LB136121
	Potassium	130000	125000	104	90 - 110	P	06/11/2025	21:34	LB136121
	Selenium	482	500	96	90 - 110	P	06/11/2025	21:34	LB136121
	Silver	525	500	105	90 - 110	P	06/11/2025	21:34	LB136121
	Sodium	228000	250000	91	90 - 110	P	06/11/2025	21:34	LB136121
	Thallium	522	500	104	90 - 110	P	06/11/2025	21:34	LB136121
	Vanadium	475	500	95	90 - 110	P	06/11/2025	21:34	LB136121
	Zinc	4830	5000	97	90 - 110	P	06/11/2025	21:34	LB136121
