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: JACOBS Engineering Group, Inc. **SDG No.:** Q1711

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

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	477	500	95	90 - 110	P	04/04/2025	14:58	LB135315
	Antimony	206	200	103	90 - 110	P	04/04/2025	14:58	LB135315
	Arsenic	207	200	103	90 - 110	P	04/04/2025	14:58	LB135315
	Barium	103	100	103	90 - 110	P	04/04/2025	14:58	LB135315
	Beryllium	104	100	104	90 - 110	P	04/04/2025	14:58	LB135315
	Cadmium	107	100	107	90 - 110	P	04/04/2025	14:58	LB135315
	Chromium	102	100	102	90 - 110	P	04/04/2025	14:58	LB135315
	Copper	93.7	100	94	90 - 110	P	04/04/2025	14:58	LB135315
	Iron	2110	2000	106	90 - 110	P	04/04/2025	14:58	LB135315
	Lead	189	200	95	90 - 110	P	04/04/2025	14:58	LB135315
	Magnesium	1110	1200	93	90 - 110	P	04/04/2025	14:58	LB135315
	Manganese	90.8	100	91	90 - 110	P	04/04/2025	14:58	LB135315
	Potassium	2020	2000	101	90 - 110	P	04/04/2025	14:58	LB135315
	Selenium	216	200	108	90 - 110	P	04/04/2025	14:58	LB135315
	Sodium	1950	2000	98	90 - 110	P	04/04/2025	14:58	LB135315

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1711

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

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
LLICV	Aluminum	20.5	20.0	102	80 - 120	P	04/04/2025	15:17	LB135315
	Antimony	2.10	2.0	105	80 - 120	P	04/04/2025	15:17	LB135315
	Arsenic	1.13	1.0	113	80 - 120	P	04/04/2025	15:17	LB135315
	Barium	9.98	10.0	100	80 - 120	P	04/04/2025	15:17	LB135315
	Beryllium	1.18	1.0	118	80 - 120	P	04/04/2025	15:17	LB135315
	Cadmium	0.99	1.0	99	80 - 120	P	04/04/2025	15:17	LB135315
	Chromium	2.13	2.0	106	80 - 120	P	04/04/2025	15:17	LB135315
	Copper	1.93	2.0	96	80 - 120	P	04/04/2025	15:17	LB135315
	Iron	58.6	50.0	117	80 - 120	P	04/04/2025	15:17	LB135315
	Lead	0.98	1.0	98	80 - 120	P	04/04/2025	15:17	LB135315
	Magnesium	512	500	102	80 - 120	P	04/04/2025	15:17	LB135315
	Manganese	0.99	1.0	99	80 - 120	P	04/04/2025	15:17	LB135315
	Potassium	519	500	104	80 - 120	P	04/04/2025	15:17	LB135315
	Selenium	5.36	5.0	107	80 - 120	P	04/04/2025	15:17	LB135315
	Sodium	516	500	103	80 - 120	P	04/04/2025	15:17	LB135315

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1711

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

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	49300	50000	99	90 - 110	P	04/04/2025	15:30	LB135315
	Antimony	483	500	97	90 - 110	P	04/04/2025	15:30	LB135315
	Arsenic	497	500	100	90 - 110	P	04/04/2025	15:30	LB135315
	Barium	2490	2500	100	90 - 110	P	04/04/2025	15:30	LB135315
	Beryllium	510	500	102	90 - 110	P	04/04/2025	15:30	LB135315
	Cadmium	467	500	93	90 - 110	P	04/04/2025	15:30	LB135315
	Chromium	498	500	100	90 - 110	P	04/04/2025	15:30	LB135315
	Copper	4790	5000	96	90 - 110	P	04/04/2025	15:30	LB135315
	Iron	125000	125000	100	90 - 110	P	04/04/2025	15:30	LB135315
	Lead	2520	2500	101	90 - 110	P	04/04/2025	15:30	LB135315
	Magnesium	242000	250000	97	90 - 110	P	04/04/2025	15:30	LB135315
	Manganese	4860	5000	97	90 - 110	P	04/04/2025	15:30	LB135315
	Potassium	124000	125000	99	90 - 110	P	04/04/2025	15:30	LB135315
	Selenium	475	500	95	90 - 110	P	04/04/2025	15:30	LB135315
	Sodium	246000	250000	98	90 - 110	P	04/04/2025	15:30	LB135315
CCV02	Aluminum	49300	50000	99	90 - 110	P	04/04/2025	16:10	LB135315
	Antimony	497	500	99	90 - 110	P	04/04/2025	16:10	LB135315
	Arsenic	495	500	99	90 - 110	P	04/04/2025	16:10	LB135315
	Barium	2460	2500	98	90 - 110	P	04/04/2025	16:10	LB135315
	Beryllium	511	500	102	90 - 110	P	04/04/2025	16:10	LB135315
	Cadmium	478	500	96	90 - 110	P	04/04/2025	16:10	LB135315
	Chromium	498	500	100	90 - 110	P	04/04/2025	16:10	LB135315
	Copper	4760	5000	95	90 - 110	P	04/04/2025	16:10	LB135315
	Iron	126000	125000	101	90 - 110	P	04/04/2025	16:10	LB135315
	Lead	2520	2500	101	90 - 110	P	04/04/2025	16:10	LB135315
	Magnesium	249000	250000	100	90 - 110	P	04/04/2025	16:10	LB135315
	Manganese	4840	5000	97	90 - 110	P	04/04/2025	16:10	LB135315
	Potassium	126000	125000	101	90 - 110	P	04/04/2025	16:10	LB135315
	Selenium	470	500	94	90 - 110	P	04/04/2025	16:10	LB135315
	Sodium	248000	250000	99	90 - 110	P	04/04/2025	16:10	LB135315
CCV03	Aluminum	48800	50000	98	90 - 110	P	04/04/2025	16:24	LB135315
	Antimony	484	500	97	90 - 110	P	04/04/2025	16:24	LB135315
	Arsenic	487	500	97	90 - 110	P	04/04/2025	16:24	LB135315
	Barium	2410	2500	96	90 - 110	P	04/04/2025	16:24	LB135315

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1711

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

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
CCV03	Beryllium	507	500	102	90 - 110	P	04/04/2025	16:24	LB135315
	Cadmium	467	500	93	90 - 110	P	04/04/2025	16:24	LB135315
	Chromium	494	500	99	90 - 110	P	04/04/2025	16:24	LB135315
	Copper	4700	5000	94	90 - 110	P	04/04/2025	16:24	LB135315
	Iron	123000	125000	99	90 - 110	P	04/04/2025	16:24	LB135315
	Lead	2490	2500	100	90 - 110	P	04/04/2025	16:24	LB135315
	Magnesium	247000	250000	99	90 - 110	P	04/04/2025	16:24	LB135315
	Manganese	4740	5000	95	90 - 110	P	04/04/2025	16:24	LB135315
	Potassium	124000	125000	99	90 - 110	P	04/04/2025	16:24	LB135315
	Selenium	470	500	94	90 - 110	P	04/04/2025	16:24	LB135315
	Sodium	246000	250000	99	90 - 110	P	04/04/2025	16:24	LB135315

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1711

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

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	468	500	94	90 - 110	P	04/07/2025	12:40	LB135332
	Antimony	197	200	98	90 - 110	P	04/07/2025	12:40	LB135332
	Arsenic	196	200	98	90 - 110	P	04/07/2025	12:40	LB135332
	Barium	99.6	100	100	90 - 110	P	04/07/2025	12:40	LB135332
	Beryllium	94.6	100	95	90 - 110	P	04/07/2025	12:40	LB135332
	Cadmium	106	100	106	90 - 110	P	04/07/2025	12:40	LB135332
	Chromium	99.1	100	99	90 - 110	P	04/07/2025	12:40	LB135332
	Copper	93.3	100	93	90 - 110	P	04/07/2025	12:40	LB135332
	Iron	1980	2000	99	90 - 110	P	04/07/2025	12:40	LB135332
	Lead	198	200	99	90 - 110	P	04/07/2025	12:40	LB135332
	Magnesium	1180	1200	99	90 - 110	P	04/07/2025	12:40	LB135332
	Manganese	93.7	100	94	90 - 110	P	04/07/2025	12:40	LB135332
	Potassium	1840	2000	92	90 - 110	P	04/07/2025	12:40	LB135332
	Selenium	200	200	100	90 - 110	P	04/07/2025	12:40	LB135332
	Sodium	2010	2000	100	90 - 110	P	04/07/2025	12:40	LB135332

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Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1711

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

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
LLICV	Aluminum	23.7	20.0	119	80 - 120	P	04/07/2025	12:44	LB135332
	Antimony	1.89	2.0	94	80 - 120	P	04/07/2025	12:44	LB135332
	Arsenic	0.98	1.0	98	80 - 120	P	04/07/2025	12:44	LB135332
	Barium	9.25	10.0	92	80 - 120	P	04/07/2025	12:44	LB135332
	Beryllium	1.04	1.0	104	80 - 120	P	04/07/2025	12:44	LB135332
	Cadmium	0.93	1.0	93	80 - 120	P	04/07/2025	12:44	LB135332
	Chromium	2.00	2.0	100	80 - 120	P	04/07/2025	12:44	LB135332
	Copper	1.94	2.0	97	80 - 120	P	04/07/2025	12:44	LB135332
	Iron	50.0	50.0	100	80 - 120	P	04/07/2025	12:44	LB135332
	Lead	0.94	1.0	94	80 - 120	P	04/07/2025	12:44	LB135332
	Magnesium	533	500	106	80 - 120	P	04/07/2025	12:44	LB135332
	Manganese	0.99	1.0	99	80 - 120	P	04/07/2025	12:44	LB135332
	Potassium	488	500	98	80 - 120	P	04/07/2025	12:44	LB135332
	Selenium	4.90	5.0	98	80 - 120	P	04/07/2025	12:44	LB135332
	Sodium	533	500	107	80 - 120	P	04/07/2025	12:44	LB135332

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1711

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

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	53100	50000	106	90 - 110	P	04/07/2025	13:07	LB135332
	Antimony	519	500	104	90 - 110	P	04/07/2025	13:07	LB135332
	Arsenic	513	500	103	90 - 110	P	04/07/2025	13:07	LB135332
	Barium	2590	2500	104	90 - 110	P	04/07/2025	13:07	LB135332
	Beryllium	539	500	108	90 - 110	P	04/07/2025	13:07	LB135332
	Cadmium	510	500	102	90 - 110	P	04/07/2025	13:07	LB135332
	Chromium	514	500	103	90 - 110	P	04/07/2025	13:07	LB135332
	Copper	4640	5000	93	90 - 110	P	04/07/2025	13:07	LB135332
	Iron	124000	125000	99	90 - 110	P	04/07/2025	13:07	LB135332
	Lead	2550	2500	102	90 - 110	P	04/07/2025	13:07	LB135332
	Magnesium	267000	250000	107	90 - 110	P	04/07/2025	13:07	LB135332
	Manganese	5070	5000	101	90 - 110	P	04/07/2025	13:07	LB135332
	Potassium	131000	125000	104	90 - 110	P	04/07/2025	13:07	LB135332
	Selenium	494	500	99	90 - 110	P	04/07/2025	13:07	LB135332
	Sodium	269000	250000	108	90 - 110	P	04/07/2025	13:07	LB135332
CCV02	Aluminum	52200	50000	104	90 - 110	P	04/07/2025	13:58	LB135332
	Antimony	511	500	102	90 - 110	P	04/07/2025	13:58	LB135332
	Arsenic	479	500	96	90 - 110	P	04/07/2025	13:58	LB135332
	Barium	2530	2500	101	90 - 110	P	04/07/2025	13:58	LB135332
	Beryllium	513	500	102	90 - 110	P	04/07/2025	13:58	LB135332
	Cadmium	500	500	100	90 - 110	P	04/07/2025	13:58	LB135332
	Chromium	492	500	98	90 - 110	P	04/07/2025	13:58	LB135332
	Copper	4770	5000	95	90 - 110	P	04/07/2025	13:58	LB135332
	Iron	119000	125000	95	90 - 110	P	04/07/2025	13:58	LB135332
	Lead	2480	2500	99	90 - 110	P	04/07/2025	13:58	LB135332
	Magnesium	260000	250000	104	90 - 110	P	04/07/2025	13:58	LB135332
	Manganese	4870	5000	97	90 - 110	P	04/07/2025	13:58	LB135332
	Potassium	128000	125000	103	90 - 110	P	04/07/2025	13:58	LB135332
	Selenium	471	500	94	90 - 110	P	04/07/2025	13:58	LB135332
	Sodium	269000	250000	108	90 - 110	P	04/07/2025	13:58	LB135332
CCV03	Aluminum	53400	50000	107	90 - 110	P	04/07/2025	15:00	LB135332
	Antimony	499	500	100	90 - 110	P	04/07/2025	15:00	LB135332
	Arsenic	476	500	95	90 - 110	P	04/07/2025	15:00	LB135332
	Barium	2480	2500	99	90 - 110	P	04/07/2025	15:00	LB135332

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1711

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

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
CCV03	Beryllium	499	500	100	90 - 110	P	04/07/2025	15:00	LB135332
	Cadmium	493	500	98	90 - 110	P	04/07/2025	15:00	LB135332
	Chromium	510	500	102	90 - 110	P	04/07/2025	15:00	LB135332
	Copper	5200	5000	104	90 - 110	P	04/07/2025	15:00	LB135332
	Iron	125000	125000	100	90 - 110	P	04/07/2025	15:00	LB135332
	Lead	2460	2500	98	90 - 110	P	04/07/2025	15:00	LB135332
	Magnesium	268000	250000	107	90 - 110	P	04/07/2025	15:00	LB135332
	Manganese	5040	5000	101	90 - 110	P	04/07/2025	15:00	LB135332
	Potassium	129000	125000	103	90 - 110	P	04/07/2025	15:00	LB135332
	Selenium	469	500	94	90 - 110	P	04/07/2025	15:00	LB135332
	Sodium	272000	250000	109	90 - 110	P	04/07/2025	15:00	LB135332