



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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3467
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3467 **SAS No.:** P3467
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
ICV72	Mercury	4.01	4.0	100	90 - 110	CV	08/13/2024	08:53	LB131960

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3467
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3467 **SAS No.:** P3467
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
CCV35	Mercury	4.53	5.0	91	90 - 110	CV	08/13/2024	08:58	LB131960
CCV36	Mercury	4.77	5.0	95	90 - 110	CV	08/13/2024	09:33	LB131960
CCV37	Mercury	4.95	5.0	99	90 - 110	CV	08/13/2024	10:00	LB131960
CCV38	Mercury	4.86	5.0	97	90 - 110	CV	08/13/2024	10:30	LB131960
CCV39	Mercury	5.18	5.0	104	90 - 110	CV	08/13/2024	10:58	LB131960
CCV40	Mercury	5.09	5.0	102	90 - 110	CV	08/13/2024	11:24	LB131960

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3467
Contract: JACO05 Lab Code: CHEM Case No.: P3467 SAS No.: P3467
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	494	500	99	90 - 110	P	08/25/2024	16:38	LB132155
	Antimony	187	200	93	90 - 110	P	08/25/2024	16:38	LB132155
	Arsenic	195	200	97	90 - 110	P	08/25/2024	16:38	LB132155
	Barium	93.7	100	94	90 - 110	P	08/25/2024	16:38	LB132155
	Beryllium	106	100	106	90 - 110	P	08/25/2024	16:38	LB132155
	Cadmium	103	100	103	90 - 110	P	08/25/2024	16:38	LB132155
	Calcium	2180	2000	109	90 - 110	P	08/25/2024	16:38	LB132155
	Chromium	97.2	100	97	90 - 110	P	08/25/2024	16:38	LB132155
	Cobalt	98.1	100	98	90 - 110	P	08/25/2024	16:38	LB132155
	Copper	99.5	100	100	90 - 110	P	08/25/2024	16:38	LB132155
	Iron	2100	2000	105	90 - 110	P	08/25/2024	16:38	LB132155
	Lead	189	200	94	90 - 110	P	08/25/2024	16:38	LB132155
	Magnesium	1150	1200	96	90 - 110	P	08/25/2024	16:38	LB132155
	Manganese	98.8	100	99	90 - 110	P	08/25/2024	16:38	LB132155
	Nickel	107	110	97	90 - 110	P	08/25/2024	16:38	LB132155
	Potassium	2070	2000	103	90 - 110	P	08/25/2024	16:38	LB132155
	Selenium	197	200	98	90 - 110	P	08/25/2024	16:38	LB132155
	Silver	48.7	50.0	98	90 - 110	P	08/25/2024	16:38	LB132155
	Sodium	2060	2000	103	90 - 110	P	08/25/2024	16:38	LB132155
	Thallium	205	210	98	90 - 110	P	08/25/2024	16:38	LB132155
	Vanadium	94.6	100	95	90 - 110	P	08/25/2024	16:38	LB132155
	Zinc	200	200	100	90 - 110	P	08/25/2024	16:38	LB132155

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3467
Contract: JACO05 Lab Code: CHEM Case No.: P3467 SAS No.: P3467
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	19.3	20.0	97	80 - 120	P	08/25/2024	17:02	LB132155
	Antimony	1.91	2.0	96	80 - 120	P	08/25/2024	17:02	LB132155
	Arsenic	0.97	1.0	97	80 - 120	P	08/25/2024	17:02	LB132155
	Barium	9.43	10.0	94	80 - 120	P	08/25/2024	17:02	LB132155
	Beryllium	1.11	1.0	111	80 - 120	P	08/25/2024	17:02	LB132155
	Cadmium	0.88	1.0	88	80 - 120	P	08/25/2024	17:02	LB132155
	Calcium	543	500	109	80 - 120	P	08/25/2024	17:02	LB132155
	Chromium	1.79	2.0	90	80 - 120	P	08/25/2024	17:02	LB132155
	Cobalt	1.05	1.0	105	80 - 120	P	08/25/2024	17:02	LB132155
	Copper	2.00	2.0	100	80 - 120	P	08/25/2024	17:02	LB132155
	Iron	57.4	50.0	115	80 - 120	P	08/25/2024	17:02	LB132155
	Lead	0.82	1.0	82	80 - 120	P	08/25/2024	17:02	LB132155
	Magnesium	524	500	105	80 - 120	P	08/25/2024	17:02	LB132155
	Manganese	0.92	1.0	92	80 - 120	P	08/25/2024	17:02	LB132155
	Nickel	0.85	1.0	85	80 - 120	P	08/25/2024	17:02	LB132155
	Potassium	546	500	109	80 - 120	P	08/25/2024	17:02	LB132155
	Selenium	5.25	5.0	105	80 - 120	P	08/25/2024	17:02	LB132155
	Silver	1.00	1.0	100	80 - 120	P	08/25/2024	17:02	LB132155
	Sodium	541	500	108	80 - 120	P	08/25/2024	17:02	LB132155
	Thallium	0.85	1.0	85	80 - 120	P	08/25/2024	17:02	LB132155
	Vanadium	5.09	5.0	102	80 - 120	P	08/25/2024	17:02	LB132155
	Zinc	4.65	5.0	93	80 - 120	P	08/25/2024	17:02	LB132155

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3467
Contract: JACO05 Lab Code: CHEM Case No.: P3467 SAS No.: P3467
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	49900	50000	100	90 - 110	P	08/25/2024	17:14	LB132155
	Antimony	510	500	102	90 - 110	P	08/25/2024	17:14	LB132155
	Arsenic	486	500	97	90 - 110	P	08/25/2024	17:14	LB132155
	Barium	2460	2500	98	90 - 110	P	08/25/2024	17:14	LB132155
	Beryllium	527	500	105	90 - 110	P	08/25/2024	17:14	LB132155
	Cadmium	464	500	93	90 - 110	P	08/25/2024	17:14	LB132155
	Calcium	255000	250000	102	90 - 110	P	08/25/2024	17:14	LB132155
	Chromium	489	500	98	90 - 110	P	08/25/2024	17:14	LB132155
	Cobalt	474	500	95	90 - 110	P	08/25/2024	17:14	LB132155
	Copper	4740	5000	95	90 - 110	P	08/25/2024	17:14	LB132155
	Iron	127000	125000	102	90 - 110	P	08/25/2024	17:14	LB132155
	Lead	2460	2500	98	90 - 110	P	08/25/2024	17:14	LB132155
	Magnesium	251000	250000	101	90 - 110	P	08/25/2024	17:14	LB132155
	Manganese	4830	5000	97	90 - 110	P	08/25/2024	17:14	LB132155
	Nickel	469	500	94	90 - 110	P	08/25/2024	17:14	LB132155
	Potassium	126000	125000	100	90 - 110	P	08/25/2024	17:14	LB132155
	Selenium	476	500	95	90 - 110	P	08/25/2024	17:14	LB132155
	Silver	474	500	95	90 - 110	P	08/25/2024	17:14	LB132155
	Sodium	258000	250000	103	90 - 110	P	08/25/2024	17:14	LB132155
	Thallium	490	500	98	90 - 110	P	08/25/2024	17:14	LB132155
	Vanadium	495	500	99	90 - 110	P	08/25/2024	17:14	LB132155
	Zinc	4690	5000	94	90 - 110	P	08/25/2024	17:14	LB132155
CCV02	Aluminum	50300	50000	101	90 - 110	P	08/25/2024	18:03	LB132155
	Antimony	500	500	100	90 - 110	P	08/25/2024	18:03	LB132155
	Arsenic	480	500	96	90 - 110	P	08/25/2024	18:03	LB132155
	Barium	2400	2500	96	90 - 110	P	08/25/2024	18:03	LB132155
	Beryllium	520	500	104	90 - 110	P	08/25/2024	18:03	LB132155
	Cadmium	461	500	92	90 - 110	P	08/25/2024	18:03	LB132155
	Calcium	254000	250000	102	90 - 110	P	08/25/2024	18:03	LB132155
	Chromium	486	500	97	90 - 110	P	08/25/2024	18:03	LB132155
	Cobalt	471	500	94	90 - 110	P	08/25/2024	18:03	LB132155
	Copper	4740	5000	95	90 - 110	P	08/25/2024	18:03	LB132155
	Iron	126000	125000	101	90 - 110	P	08/25/2024	18:03	LB132155
	Lead	2440	2500	98	90 - 110	P	08/25/2024	18:03	LB132155

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3467

Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3467 **SAS No.:** P3467

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	253000	250000	101	90 - 110	P	08/25/2024	18:03	LB132155
	Manganese	4790	5000	96	90 - 110	P	08/25/2024	18:03	LB132155
	Nickel	468	500	94	90 - 110	P	08/25/2024	18:03	LB132155
	Potassium	127000	125000	101	90 - 110	P	08/25/2024	18:03	LB132155
	Selenium	469	500	94	90 - 110	P	08/25/2024	18:03	LB132155
	Silver	469	500	94	90 - 110	P	08/25/2024	18:03	LB132155
	Sodium	258000	250000	103	90 - 110	P	08/25/2024	18:03	LB132155
	Thallium	494	500	99	90 - 110	P	08/25/2024	18:03	LB132155
	Vanadium	496	500	99	90 - 110	P	08/25/2024	18:03	LB132155
	Zinc	4700	5000	94	90 - 110	P	08/25/2024	18:03	LB132155
CCV03	Aluminum	49400	50000	99	90 - 110	P	08/25/2024	18:43	LB132155
	Antimony	486	500	97	90 - 110	P	08/25/2024	18:43	LB132155
	Arsenic	491	500	98	90 - 110	P	08/25/2024	18:43	LB132155
	Barium	2390	2500	96	90 - 110	P	08/25/2024	18:43	LB132155
	Beryllium	501	500	100	90 - 110	P	08/25/2024	18:43	LB132155
	Cadmium	469	500	94	90 - 110	P	08/25/2024	18:43	LB132155
	Calcium	250000	250000	100	90 - 110	P	08/25/2024	18:43	LB132155
	Chromium	480	500	96	90 - 110	P	08/25/2024	18:43	LB132155
	Cobalt	469	500	94	90 - 110	P	08/25/2024	18:43	LB132155
	Copper	4740	5000	95	90 - 110	P	08/25/2024	18:43	LB132155
	Iron	125000	125000	100	90 - 110	P	08/25/2024	18:43	LB132155
	Lead	2440	2500	97	90 - 110	P	08/25/2024	18:43	LB132155
	Magnesium	246000	250000	98	90 - 110	P	08/25/2024	18:43	LB132155
	Manganese	4730	5000	94	90 - 110	P	08/25/2024	18:43	LB132155
	Nickel	459	500	92	90 - 110	P	08/25/2024	18:43	LB132155
	Potassium	124000	125000	99	90 - 110	P	08/25/2024	18:43	LB132155
	Selenium	486	500	97	90 - 110	P	08/25/2024	18:43	LB132155
	Silver	478	500	96	90 - 110	P	08/25/2024	18:43	LB132155
	Sodium	254000	250000	102	90 - 110	P	08/25/2024	18:43	LB132155
	Thallium	493	500	99	90 - 110	P	08/25/2024	18:43	LB132155
	Vanadium	485	500	97	90 - 110	P	08/25/2024	18:43	LB132155
	Zinc	4750	5000	95	90 - 110	P	08/25/2024	18:43	LB132155
CCV04	Aluminum	50000	50000	100	90 - 110	P	08/25/2024	19:27	LB132155
	Antimony	513	500	102	90 - 110	P	08/25/2024	19:27	LB132155

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3467
Contract: JACO05 Lab Code: CHEM Case No.: P3467 SAS No.: P3467
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	494	500	99	90 - 110	P	08/25/2024	19:27	LB132155
	Barium	2520	2500	101	90 - 110	P	08/25/2024	19:27	LB132155
	Beryllium	521	500	104	90 - 110	P	08/25/2024	19:27	LB132155
	Cadmium	489	500	98	90 - 110	P	08/25/2024	19:27	LB132155
	Calcium	254000	250000	101	90 - 110	P	08/25/2024	19:27	LB132155
	Chromium	489	500	98	90 - 110	P	08/25/2024	19:27	LB132155
	Cobalt	483	500	97	90 - 110	P	08/25/2024	19:27	LB132155
	Copper	4850	5000	97	90 - 110	P	08/25/2024	19:27	LB132155
	Iron	127000	125000	102	90 - 110	P	08/25/2024	19:27	LB132155
	Lead	2450	2500	98	90 - 110	P	08/25/2024	19:27	LB132155
	Magnesium	250000	250000	100	90 - 110	P	08/25/2024	19:27	LB132155
	Manganese	4810	5000	96	90 - 110	P	08/25/2024	19:27	LB132155
	Nickel	472	500	94	90 - 110	P	08/25/2024	19:27	LB132155
	Potassium	125000	125000	100	90 - 110	P	08/25/2024	19:27	LB132155
	Selenium	489	500	98	90 - 110	P	08/25/2024	19:27	LB132155
	Silver	495	500	99	90 - 110	P	08/25/2024	19:27	LB132155
	Sodium	254000	250000	102	90 - 110	P	08/25/2024	19:27	LB132155
	Thallium	491	500	98	90 - 110	P	08/25/2024	19:27	LB132155
	Vanadium	495	500	99	90 - 110	P	08/25/2024	19:27	LB132155
	Zinc	4830	5000	97	90 - 110	P	08/25/2024	19:27	LB132155
CCV05	Aluminum	49700	50000	99	90 - 110	P	08/25/2024	20:14	LB132155
	Antimony	496	500	99	90 - 110	P	08/25/2024	20:14	LB132155
	Arsenic	487	500	97	90 - 110	P	08/25/2024	20:14	LB132155
	Barium	2420	2500	97	90 - 110	P	08/25/2024	20:14	LB132155
	Beryllium	519	500	104	90 - 110	P	08/25/2024	20:14	LB132155
	Cadmium	476	500	95	90 - 110	P	08/25/2024	20:14	LB132155
	Calcium	252000	250000	101	90 - 110	P	08/25/2024	20:14	LB132155
	Chromium	491	500	98	90 - 110	P	08/25/2024	20:14	LB132155
	Cobalt	489	500	98	90 - 110	P	08/25/2024	20:14	LB132155
	Copper	4840	5000	97	90 - 110	P	08/25/2024	20:14	LB132155
	Iron	127000	125000	102	90 - 110	P	08/25/2024	20:14	LB132155
	Lead	2460	2500	98	90 - 110	P	08/25/2024	20:14	LB132155
	Magnesium	249000	250000	100	90 - 110	P	08/25/2024	20:14	LB132155
	Manganese	4810	5000	96	90 - 110	P	08/25/2024	20:14	LB132155

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3467

Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3467 **SAS No.:** P3467

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	470	500	94	90 - 110	P	08/25/2024	20:14	LB132155
	Potassium	125000	125000	100	90 - 110	P	08/25/2024	20:14	LB132155
	Selenium	484	500	97	90 - 110	P	08/25/2024	20:14	LB132155
	Silver	486	500	97	90 - 110	P	08/25/2024	20:14	LB132155
	Sodium	255000	250000	102	90 - 110	P	08/25/2024	20:14	LB132155
	Thallium	496	500	99	90 - 110	P	08/25/2024	20:14	LB132155
	Vanadium	499	500	100	90 - 110	P	08/25/2024	20:14	LB132155
	Zinc	4840	5000	97	90 - 110	P	08/25/2024	20:14	LB132155
CCV06	Aluminum	50000	50000	100	90 - 110	P	08/25/2024	21:02	LB132155
	Antimony	493	500	99	90 - 110	P	08/25/2024	21:02	LB132155
	Arsenic	483	500	96	90 - 110	P	08/25/2024	21:02	LB132155
	Barium	2400	2500	96	90 - 110	P	08/25/2024	21:02	LB132155
	Beryllium	504	500	101	90 - 110	P	08/25/2024	21:02	LB132155
	Cadmium	471	500	94	90 - 110	P	08/25/2024	21:02	LB132155
	Calcium	252000	250000	101	90 - 110	P	08/25/2024	21:02	LB132155
	Chromium	483	500	97	90 - 110	P	08/25/2024	21:02	LB132155
	Cobalt	475	500	95	90 - 110	P	08/25/2024	21:02	LB132155
	Copper	4800	5000	96	90 - 110	P	08/25/2024	21:02	LB132155
	Iron	127000	125000	102	90 - 110	P	08/25/2024	21:02	LB132155
	Lead	2440	2500	98	90 - 110	P	08/25/2024	21:02	LB132155
	Magnesium	250000	250000	100	90 - 110	P	08/25/2024	21:02	LB132155
	Manganese	4800	5000	96	90 - 110	P	08/25/2024	21:02	LB132155
	Nickel	463	500	92	90 - 110	P	08/25/2024	21:02	LB132155
	Potassium	123000	125000	99	90 - 110	P	08/25/2024	21:02	LB132155
	Selenium	481	500	96	90 - 110	P	08/25/2024	21:02	LB132155
	Silver	477	500	95	90 - 110	P	08/25/2024	21:02	LB132155
	Sodium	254000	250000	102	90 - 110	P	08/25/2024	21:02	LB132155
	Thallium	487	500	97	90 - 110	P	08/25/2024	21:02	LB132155
	Vanadium	491	500	98	90 - 110	P	08/25/2024	21:02	LB132155
	Zinc	4830	5000	96	90 - 110	P	08/25/2024	21:02	LB132155
CCV07	Aluminum	49600	50000	99	90 - 110	P	08/25/2024	21:47	LB132155
	Antimony	488	500	98	90 - 110	P	08/25/2024	21:47	LB132155
	Arsenic	471	500	94	90 - 110	P	08/25/2024	21:47	LB132155
	Barium	2440	2500	98	90 - 110	P	08/25/2024	21:47	LB132155

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3467

Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3467 **SAS No.:** P3467

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
CCV07	Beryllium	504	500	101	90 - 110	P	08/25/2024	21:47	LB132155
	Cadmium	468	500	94	90 - 110	P	08/25/2024	21:47	LB132155
	Calcium	252000	250000	101	90 - 110	P	08/25/2024	21:47	LB132155
	Chromium	482	500	96	90 - 110	P	08/25/2024	21:47	LB132155
	Cobalt	474	500	95	90 - 110	P	08/25/2024	21:47	LB132155
	Copper	4710	5000	94	90 - 110	P	08/25/2024	21:47	LB132155
	Iron	127000	125000	101	90 - 110	P	08/25/2024	21:47	LB132155
	Lead	2470	2500	99	90 - 110	P	08/25/2024	21:47	LB132155
	Magnesium	246000	250000	98	90 - 110	P	08/25/2024	21:47	LB132155
	Manganese	4720	5000	94	90 - 110	P	08/25/2024	21:47	LB132155
	Nickel	463	500	93	90 - 110	P	08/25/2024	21:47	LB132155
	Potassium	124000	125000	99	90 - 110	P	08/25/2024	21:47	LB132155
	Selenium	475	500	95	90 - 110	P	08/25/2024	21:47	LB132155
	Silver	475	500	95	90 - 110	P	08/25/2024	21:47	LB132155
	Sodium	253000	250000	101	90 - 110	P	08/25/2024	21:47	LB132155
	Thallium	499	500	100	90 - 110	P	08/25/2024	21:47	LB132155
	Vanadium	488	500	98	90 - 110	P	08/25/2024	21:47	LB132155
	Zinc	4740	5000	95	90 - 110	P	08/25/2024	21:47	LB132155
CCV08	Aluminum	49700	50000	100	90 - 110	P	08/25/2024	22:31	LB132155
	Antimony	489	500	98	90 - 110	P	08/25/2024	22:31	LB132155
	Arsenic	477	500	95	90 - 110	P	08/25/2024	22:31	LB132155
	Barium	2410	2500	96	90 - 110	P	08/25/2024	22:31	LB132155
	Beryllium	508	500	102	90 - 110	P	08/25/2024	22:31	LB132155
	Cadmium	467	500	93	90 - 110	P	08/25/2024	22:31	LB132155
	Calcium	255000	250000	102	90 - 110	P	08/25/2024	22:31	LB132155
	Chromium	484	500	97	90 - 110	P	08/25/2024	22:31	LB132155
	Cobalt	479	500	96	90 - 110	P	08/25/2024	22:31	LB132155
	Copper	4790	5000	96	90 - 110	P	08/25/2024	22:31	LB132155
	Iron	128000	125000	102	90 - 110	P	08/25/2024	22:31	LB132155
	Lead	2460	2500	98	90 - 110	P	08/25/2024	22:31	LB132155
	Magnesium	248000	250000	99	90 - 110	P	08/25/2024	22:31	LB132155
	Manganese	4780	5000	96	90 - 110	P	08/25/2024	22:31	LB132155
	Nickel	466	500	93	90 - 110	P	08/25/2024	22:31	LB132155
	Potassium	125000	125000	100	90 - 110	P	08/25/2024	22:31	LB132155

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3467

Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3467 **SAS No.:** P3467

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
CCV08	Selenium	470	500	94	90 - 110	P	08/25/2024	22:31	LB132155
	Silver	480	500	96	90 - 110	P	08/25/2024	22:31	LB132155
	Sodium	251000	250000	100	90 - 110	P	08/25/2024	22:31	LB132155
	Thallium	494	500	99	90 - 110	P	08/25/2024	22:31	LB132155
	Vanadium	494	500	99	90 - 110	P	08/25/2024	22:31	LB132155
	Zinc	4770	5000	95	90 - 110	P	08/25/2024	22:31	LB132155
CCV09	Aluminum	51800	50000	104	90 - 110	P	08/25/2024	23:34	LB132155
	Antimony	508	500	102	90 - 110	P	08/25/2024	23:34	LB132155
	Arsenic	483	500	96	90 - 110	P	08/25/2024	23:34	LB132155
	Barium	2440	2500	98	90 - 110	P	08/25/2024	23:34	LB132155
	Beryllium	534	500	107	90 - 110	P	08/25/2024	23:34	LB132155
	Cadmium	485	500	97	90 - 110	P	08/25/2024	23:34	LB132155
	Calcium	248000	250000	99	90 - 110	P	08/25/2024	23:34	LB132155
	Chromium	487	500	97	90 - 110	P	08/25/2024	23:34	LB132155
	Cobalt	480	500	96	90 - 110	P	08/25/2024	23:34	LB132155
	Copper	4980	5000	100	90 - 110	P	08/25/2024	23:34	LB132155
	Iron	127000	125000	101	90 - 110	P	08/25/2024	23:34	LB132155
	Lead	2470	2500	99	90 - 110	P	08/25/2024	23:34	LB132155
	Magnesium	246000	250000	98	90 - 110	P	08/25/2024	23:34	LB132155
	Manganese	4830	5000	96	90 - 110	P	08/25/2024	23:34	LB132155
	Nickel	467	500	94	90 - 110	P	08/25/2024	23:34	LB132155
	Potassium	124000	125000	99	90 - 110	P	08/25/2024	23:34	LB132155
	Selenium	495	500	99	90 - 110	P	08/25/2024	23:34	LB132155
	Silver	499	500	100	90 - 110	P	08/25/2024	23:34	LB132155
	Sodium	251000	250000	100	90 - 110	P	08/25/2024	23:34	LB132155
	Thallium	507	500	101	90 - 110	P	08/25/2024	23:34	LB132155
	Vanadium	495	500	99	90 - 110	P	08/25/2024	23:34	LB132155
	Zinc	4930	5000	98	90 - 110	P	08/25/2024	23:34	LB132155
CCV10	Aluminum	52300	50000	105	90 - 110	P	08/26/2024	00:42	LB132155
	Antimony	501	500	100	90 - 110	P	08/26/2024	00:42	LB132155
	Arsenic	475	500	95	90 - 110	P	08/26/2024	00:42	LB132155
	Barium	2410	2500	96	90 - 110	P	08/26/2024	00:42	LB132155
	Beryllium	529	500	106	90 - 110	P	08/26/2024	00:42	LB132155
	Cadmium	472	500	94	90 - 110	P	08/26/2024	00:42	LB132155

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3467
Contract: JACO05 Lab Code: CHEM Case No.: P3467 SAS No.: P3467
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
CCV10	Calcium	246000	250000	98	90 - 110	P	08/26/2024	00:42	LB132155
	Chromium	485	500	97	90 - 110	P	08/26/2024	00:42	LB132155
	Cobalt	483	500	96	90 - 110	P	08/26/2024	00:42	LB132155
	Copper	4970	5000	99	90 - 110	P	08/26/2024	00:42	LB132155
	Iron	128000	125000	102	90 - 110	P	08/26/2024	00:42	LB132155
	Lead	2440	2500	98	90 - 110	P	08/26/2024	00:42	LB132155
	Magnesium	247000	250000	99	90 - 110	P	08/26/2024	00:42	LB132155
	Manganese	4880	5000	98	90 - 110	P	08/26/2024	00:42	LB132155
	Nickel	464	500	93	90 - 110	P	08/26/2024	00:42	LB132155
	Potassium	123000	125000	98	90 - 110	P	08/26/2024	00:42	LB132155
	Selenium	481	500	96	90 - 110	P	08/26/2024	00:42	LB132155
	Silver	492	500	98	90 - 110	P	08/26/2024	00:42	LB132155
	Sodium	251000	250000	100	90 - 110	P	08/26/2024	00:42	LB132155
	Thallium	491	500	98	90 - 110	P	08/26/2024	00:42	LB132155
	Vanadium	494	500	99	90 - 110	P	08/26/2024	00:42	LB132155
	Zinc	4850	5000	97	90 - 110	P	08/26/2024	00:42	LB132155
CCV11	Aluminum	52200	50000	104	90 - 110	P	08/26/2024	01:17	LB132155
	Antimony	502	500	100	90 - 110	P	08/26/2024	01:17	LB132155
	Arsenic	475	500	95	90 - 110	P	08/26/2024	01:17	LB132155
	Barium	2420	2500	97	90 - 110	P	08/26/2024	01:17	LB132155
	Beryllium	517	500	104	90 - 110	P	08/26/2024	01:17	LB132155
	Cadmium	478	500	96	90 - 110	P	08/26/2024	01:17	LB132155
	Calcium	249000	250000	100	90 - 110	P	08/26/2024	01:17	LB132155
	Chromium	488	500	98	90 - 110	P	08/26/2024	01:17	LB132155
	Cobalt	481	500	96	90 - 110	P	08/26/2024	01:17	LB132155
	Copper	5040	5000	101	90 - 110	P	08/26/2024	01:17	LB132155
	Iron	127000	125000	102	90 - 110	P	08/26/2024	01:17	LB132155
	Lead	2420	2500	97	90 - 110	P	08/26/2024	01:17	LB132155
	Magnesium	249000	250000	100	90 - 110	P	08/26/2024	01:17	LB132155
	Manganese	4880	5000	98	90 - 110	P	08/26/2024	01:17	LB132155
	Nickel	470	500	94	90 - 110	P	08/26/2024	01:17	LB132155
	Potassium	123000	125000	98	90 - 110	P	08/26/2024	01:17	LB132155
	Selenium	477	500	95	90 - 110	P	08/26/2024	01:17	LB132155
	Silver	489	500	98	90 - 110	P	08/26/2024	01:17	LB132155

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3467
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3467 **SAS No.:** P3467
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
CCV11	Sodium	255000	250000	102	90 - 110	P	08/26/2024	01:17	LB132155
	Thallium	493	500	99	90 - 110	P	08/26/2024	01:17	LB132155
	Vanadium	494	500	99	90 - 110	P	08/26/2024	01:17	LB132155
	Zinc	4940	5000	99	90 - 110	P	08/26/2024	01:17	LB132155
