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

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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

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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

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2310	2500	92	90 - 110	P	08/07/2024	15:52	LB131900
	Antimony	937	1000	94	90 - 110	P	08/07/2024	15:52	LB131900
	Arsenic	903	1000	90	90 - 110	P	08/07/2024	15:52	LB131900
	Barium	489	520	94	90 - 110	P	08/07/2024	15:52	LB131900
	Beryllium	472	510	92	90 - 110	P	08/07/2024	15:52	LB131900
	Boron	2480	2500	99	90 - 110	P	08/07/2024	15:52	LB131900
	Cadmium	470	510	92	90 - 110	P	08/07/2024	15:52	LB131900
	Calcium	9780	10000	98	90 - 110	P	08/07/2024	15:52	LB131900
	Chromium	521	520	100	90 - 110	P	08/07/2024	15:52	LB131900
	Cobalt	487	520	94	90 - 110	P	08/07/2024	15:52	LB131900
	Copper	490	510	96	90 - 110	P	08/07/2024	15:52	LB131900
	Iron	10000	10000	100	90 - 110	P	08/07/2024	15:52	LB131900
	Lead	954	1000	95	90 - 110	P	08/07/2024	15:52	LB131900
	Magnesium	5520	6000	92	90 - 110	P	08/07/2024	15:52	LB131900
	Manganese	493	520	95	90 - 110	P	08/07/2024	15:52	LB131900
	Molybdenum	2710	2500	108	90 - 110	P	08/07/2024	15:52	LB131900
	Nickel	490	530	92	90 - 110	P	08/07/2024	15:52	LB131900
	Potassium	10300	9900	104	90 - 110	P	08/07/2024	15:52	LB131900
	Selenium	916	1000	92	90 - 110	P	08/07/2024	15:52	LB131900
	Silver	251	250	100	90 - 110	P	08/07/2024	15:52	LB131900
	Sodium	10500	10000	105	90 - 110	P	08/07/2024	15:52	LB131900
	Strontium	2500	2500	100	90 - 110	P	08/07/2024	15:52	LB131900
	Thallium	999	1000	100	90 - 110	P	08/07/2024	15:52	LB131900
	Tin	2630	2500	105	90 - 110	P	08/07/2024	15:52	LB131900
	Titanium	2640	2500	106	90 - 110	P	08/07/2024	15:52	LB131900
	Vanadium	475	500	95	90 - 110	P	08/07/2024	15:52	LB131900
	Zinc	1040	1000	104	90 - 110	P	08/07/2024	15:52	LB131900

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Metals

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	102	100	102	80 - 120	P	08/07/2024	15:56	LB131900
	Antimony	51.2	50.0	102	80 - 120	P	08/07/2024	15:56	LB131900
	Arsenic	19.9	20.0	100	80 - 120	P	08/07/2024	15:56	LB131900
	Barium	101	100	101	80 - 120	P	08/07/2024	15:56	LB131900
	Beryllium	6.00	6.0	100	80 - 120	P	08/07/2024	15:56	LB131900
	Boron	102	100	102	80 - 120	P	08/07/2024	15:56	LB131900
	Cadmium	6.25	6.0	104	80 - 120	P	08/07/2024	15:56	LB131900
	Calcium	2040	2000	102	80 - 120	P	08/07/2024	15:56	LB131900
	Chromium	9.27	10.0	93	80 - 120	P	08/07/2024	15:56	LB131900
	Cobalt	29.6	30.0	99	80 - 120	P	08/07/2024	15:56	LB131900
	Copper	21.9	20.0	109	80 - 120	P	08/07/2024	15:56	LB131900
	Iron	99.5	100	100	80 - 120	P	08/07/2024	15:56	LB131900
	Lead	13.9	12.0	116	80 - 120	P	08/07/2024	15:56	LB131900
	Magnesium	2100	2000	105	80 - 120	P	08/07/2024	15:56	LB131900
	Manganese	20.6	20.0	103	80 - 120	P	08/07/2024	15:56	LB131900
	Molybdenum	201	200	101	80 - 120	P	08/07/2024	15:56	LB131900
	Nickel	40.0	40.0	100	80 - 120	P	08/07/2024	15:56	LB131900
	Potassium	1760	2000	88	80 - 120	P	08/07/2024	15:56	LB131900
	Selenium	18.3	20.0	91	80 - 120	P	08/07/2024	15:56	LB131900
	Silver	8.68	10.0	87	80 - 120	P	08/07/2024	15:56	LB131900
	Sodium	1730	2000	86	80 - 120	P	08/07/2024	15:56	LB131900
	Strontium	20.7	20.0	104	80 - 120	P	08/07/2024	15:56	LB131900
	Thallium	41.2	40.0	103	80 - 120	P	08/07/2024	15:56	LB131900
	Tin	36.0	40.0	90	80 - 120	P	08/07/2024	15:56	LB131900
	Titanium	40.8	40.0	102	80 - 120	P	08/07/2024	15:56	LB131900
	Vanadium	41.4	40.0	104	80 - 120	P	08/07/2024	15:56	LB131900
	Zinc	41.5	40.0	104	80 - 120	P	08/07/2024	15:56	LB131900

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9700	10000	97	90 - 110	P	08/07/2024	16:20	LB131900
	Antimony	4930	5000	99	90 - 110	P	08/07/2024	16:20	LB131900
	Arsenic	4910	5000	98	90 - 110	P	08/07/2024	16:20	LB131900
	Barium	10000	10000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Beryllium	249	250	100	90 - 110	P	08/07/2024	16:20	LB131900
	Boron	4900	5000	98	90 - 110	P	08/07/2024	16:20	LB131900
	Cadmium	2490	2500	100	90 - 110	P	08/07/2024	16:20	LB131900
	Calcium	25000	25000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Chromium	1010	1000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Cobalt	2470	2500	99	90 - 110	P	08/07/2024	16:20	LB131900
	Copper	1230	1250	98	90 - 110	P	08/07/2024	16:20	LB131900
	Iron	4990	5000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Lead	5060	5000	101	90 - 110	P	08/07/2024	16:20	LB131900
	Magnesium	24600	25000	98	90 - 110	P	08/07/2024	16:20	LB131900
	Manganese	2480	2500	99	90 - 110	P	08/07/2024	16:20	LB131900
	Molybdenum	5040	5000	101	90 - 110	P	08/07/2024	16:20	LB131900
	Nickel	2490	2500	100	90 - 110	P	08/07/2024	16:20	LB131900
	Potassium	24300	25000	97	90 - 110	P	08/07/2024	16:20	LB131900
	Selenium	4880	5000	98	90 - 110	P	08/07/2024	16:20	LB131900
	Silver	1240	1250	100	90 - 110	P	08/07/2024	16:20	LB131900
	Sodium	24000	25000	96	90 - 110	P	08/07/2024	16:20	LB131900
	Strontium	5000	5000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Thallium	5160	5000	103	90 - 110	P	08/07/2024	16:20	LB131900
	Tin	5000	5000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Titanium	4950	5000	99	90 - 110	P	08/07/2024	16:20	LB131900
	Vanadium	2460	2500	98	90 - 110	P	08/07/2024	16:20	LB131900
	Zinc	2540	2500	102	90 - 110	P	08/07/2024	16:20	LB131900
CCV02	Aluminum	9760	10000	98	90 - 110	P	08/07/2024	17:14	LB131900
	Antimony	4910	5000	98	90 - 110	P	08/07/2024	17:14	LB131900
	Arsenic	4900	5000	98	90 - 110	P	08/07/2024	17:14	LB131900
	Barium	10200	10000	102	90 - 110	P	08/07/2024	17:14	LB131900
	Beryllium	250	250	100	90 - 110	P	08/07/2024	17:14	LB131900
	Boron	4890	5000	98	90 - 110	P	08/07/2024	17:14	LB131900
	Cadmium	2520	2500	101	90 - 110	P	08/07/2024	17:14	LB131900

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Metals

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Calcium	25500	25000	102	90 - 110	P	08/07/2024	17:14	LB131900
	Chromium	1010	1000	101	90 - 110	P	08/07/2024	17:14	LB131900
	Cobalt	2490	2500	100	90 - 110	P	08/07/2024	17:14	LB131900
	Copper	1240	1250	99	90 - 110	P	08/07/2024	17:14	LB131900
	Iron	5090	5000	102	90 - 110	P	08/07/2024	17:14	LB131900
	Lead	5100	5000	102	90 - 110	P	08/07/2024	17:14	LB131900
	Magnesium	24800	25000	99	90 - 110	P	08/07/2024	17:14	LB131900
	Manganese	2530	2500	101	90 - 110	P	08/07/2024	17:14	LB131900
	Molybdenum	5050	5000	101	90 - 110	P	08/07/2024	17:14	LB131900
	Nickel	2510	2500	100	90 - 110	P	08/07/2024	17:14	LB131900
	Potassium	24500	25000	98	90 - 110	P	08/07/2024	17:14	LB131900
	Selenium	4850	5000	97	90 - 110	P	08/07/2024	17:14	LB131900
	Silver	1250	1250	100	90 - 110	P	08/07/2024	17:14	LB131900
	Sodium	24200	25000	97	90 - 110	P	08/07/2024	17:14	LB131900
	Strontium	5100	5000	102	90 - 110	P	08/07/2024	17:14	LB131900
	Thallium	5130	5000	103	90 - 110	P	08/07/2024	17:14	LB131900
	Tin	5030	5000	100	90 - 110	P	08/07/2024	17:14	LB131900
	Titanium	5060	5000	101	90 - 110	P	08/07/2024	17:14	LB131900
	Vanadium	2490	2500	100	90 - 110	P	08/07/2024	17:14	LB131900
	Zinc	2560	2500	102	90 - 110	P	08/07/2024	17:14	LB131900
CCV03	Aluminum	9390	10000	94	90 - 110	P	08/07/2024	18:51	LB131900
	Antimony	4780	5000	96	90 - 110	P	08/07/2024	18:51	LB131900
	Arsenic	4720	5000	94	90 - 110	P	08/07/2024	18:51	LB131900
	Barium	9840	10000	98	90 - 110	P	08/07/2024	18:51	LB131900
	Beryllium	252	250	101	90 - 110	P	08/07/2024	18:51	LB131900
	Boron	4910	5000	98	90 - 110	P	08/07/2024	18:51	LB131900
	Cadmium	2440	2500	98	90 - 110	P	08/07/2024	18:51	LB131900
	Calcium	24700	25000	99	90 - 110	P	08/07/2024	18:51	LB131900
	Chromium	996	1000	100	90 - 110	P	08/07/2024	18:51	LB131900
	Cobalt	2430	2500	97	90 - 110	P	08/07/2024	18:51	LB131900
	Copper	1200	1250	96	90 - 110	P	08/07/2024	18:51	LB131900
	Iron	4920	5000	98	90 - 110	P	08/07/2024	18:51	LB131900
	Lead	4950	5000	99	90 - 110	P	08/07/2024	18:51	LB131900
	Magnesium	24200	25000	97	90 - 110	P	08/07/2024	18:51	LB131900

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Manganese	2460	2500	98	90 - 110	P	08/07/2024	18:51	LB131900
	Molybdenum	4970	5000	99	90 - 110	P	08/07/2024	18:51	LB131900
	Nickel	2440	2500	97	90 - 110	P	08/07/2024	18:51	LB131900
	Potassium	24200	25000	97	90 - 110	P	08/07/2024	18:51	LB131900
	Selenium	4670	5000	93	90 - 110	P	08/07/2024	18:51	LB131900
	Silver	1240	1250	99	90 - 110	P	08/07/2024	18:51	LB131900
	Sodium	23600	25000	94	90 - 110	P	08/07/2024	18:51	LB131900
	Strontium	4900	5000	98	90 - 110	P	08/07/2024	18:51	LB131900
	Thallium	4990	5000	100	90 - 110	P	08/07/2024	18:51	LB131900
	Tin	4860	5000	97	90 - 110	P	08/07/2024	18:51	LB131900
	Titanium	4890	5000	98	90 - 110	P	08/07/2024	18:51	LB131900
	Vanadium	2420	2500	97	90 - 110	P	08/07/2024	18:51	LB131900
	Zinc	2500	2500	100	90 - 110	P	08/07/2024	18:51	LB131900
CCV04	Aluminum	9190	10000	92	90 - 110	P	08/07/2024	19:48	LB131900
	Antimony	4780	5000	96	90 - 110	P	08/07/2024	19:48	LB131900
	Arsenic	4740	5000	95	90 - 110	P	08/07/2024	19:48	LB131900
	Barium	9880	10000	99	90 - 110	P	08/07/2024	19:48	LB131900
	Beryllium	242	250	97	90 - 110	P	08/07/2024	19:48	LB131900
	Boron	4700	5000	94	90 - 110	P	08/07/2024	19:48	LB131900
	Cadmium	2460	2500	98	90 - 110	P	08/07/2024	19:48	LB131900
	Calcium	24600	25000	98	90 - 110	P	08/07/2024	19:48	LB131900
	Chromium	995	1000	100	90 - 110	P	08/07/2024	19:48	LB131900
	Cobalt	2430	2500	97	90 - 110	P	08/07/2024	19:48	LB131900
	Copper	1200	1250	96	90 - 110	P	08/07/2024	19:48	LB131900
	Iron	5100	5000	102	90 - 110	P	08/07/2024	19:48	LB131900
	Lead	5000	5000	100	90 - 110	P	08/07/2024	19:48	LB131900
	Magnesium	23900	25000	96	90 - 110	P	08/07/2024	19:48	LB131900
	Manganese	2440	2500	98	90 - 110	P	08/07/2024	19:48	LB131900
	Molybdenum	4950	5000	99	90 - 110	P	08/07/2024	19:48	LB131900
	Nickel	2450	2500	98	90 - 110	P	08/07/2024	19:48	LB131900
	Potassium	24600	25000	98	90 - 110	P	08/07/2024	19:48	LB131900
	Selenium	4690	5000	94	90 - 110	P	08/07/2024	19:48	LB131900
	Silver	1240	1250	99	90 - 110	P	08/07/2024	19:48	LB131900
	Sodium	23900	25000	96	90 - 110	P	08/07/2024	19:48	LB131900

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Strontium	4890	5000	98	90 - 110	P	08/07/2024	19:48	LB131900
	Thallium	5020	5000	100	90 - 110	P	08/07/2024	19:48	LB131900
	Tin	4900	5000	98	90 - 110	P	08/07/2024	19:48	LB131900
	Titanium	4860	5000	97	90 - 110	P	08/07/2024	19:48	LB131900
	Vanadium	2410	2500	96	90 - 110	P	08/07/2024	19:48	LB131900
	Zinc	2500	2500	100	90 - 110	P	08/07/2024	19:48	LB131900

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2450	2500	98	90 - 110	P	08/21/2024	12:34	LB132113
	Antimony	1010	1000	101	90 - 110	P	08/21/2024	12:34	LB132113
	Arsenic	1000	1000	100	90 - 110	P	08/21/2024	12:34	LB132113
	Barium	501	520	96	90 - 110	P	08/21/2024	12:34	LB132113
	Beryllium	475	510	93	90 - 110	P	08/21/2024	12:34	LB132113
	Boron	2410	2500	96	90 - 110	P	08/21/2024	12:34	LB132113
	Cadmium	498	510	98	90 - 110	P	08/21/2024	12:34	LB132113
	Calcium	9930	10000	99	90 - 110	P	08/21/2024	12:34	LB132113
	Chromium	529	520	102	90 - 110	P	08/21/2024	12:34	LB132113
	Cobalt	522	520	100	90 - 110	P	08/21/2024	12:34	LB132113
	Copper	532	510	104	90 - 110	P	08/21/2024	12:34	LB132113
	Iron	10300	10000	103	90 - 110	P	08/21/2024	12:34	LB132113
	Lead	993	1000	99	90 - 110	P	08/21/2024	12:34	LB132113
	Magnesium	5860	6000	98	90 - 110	P	08/21/2024	12:34	LB132113
	Manganese	507	520	97	90 - 110	P	08/21/2024	12:34	LB132113
	Molybdenum	2670	2500	107	90 - 110	P	08/21/2024	12:34	LB132113
	Nickel	527	530	99	90 - 110	P	08/21/2024	12:34	LB132113
	Potassium	9960	9900	101	90 - 110	P	08/21/2024	12:34	LB132113
	Selenium	1020	1000	102	90 - 110	P	08/21/2024	12:34	LB132113
	Silver	255	250	102	90 - 110	P	08/21/2024	12:34	LB132113
	Sodium	9710	10000	97	90 - 110	P	08/21/2024	12:34	LB132113
	Strontium	2270	2500	91	90 - 110	P	08/21/2024	12:34	LB132113
	Thallium	1030	1000	102	90 - 110	P	08/21/2024	12:34	LB132113
	Tin	2680	2500	107	90 - 110	P	08/21/2024	12:34	LB132113
	Titanium	2550	2500	102	90 - 110	P	08/21/2024	12:34	LB132113
	Vanadium	492	500	98	90 - 110	P	08/21/2024	12:34	LB132113
	Zinc	1010	1000	101	90 - 110	P	08/21/2024	12:34	LB132113

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	92.9	100	93	80 - 120	P	08/21/2024	13:18	LB132113
	Antimony	46.4	50.0	93	80 - 120	P	08/21/2024	13:18	LB132113
	Arsenic	20.6	20.0	103	80 - 120	P	08/21/2024	13:18	LB132113
	Barium	90.2	100	90	80 - 120	P	08/21/2024	13:18	LB132113
	Beryllium	5.71	6.0	95	80 - 120	P	08/21/2024	13:18	LB132113
	Boron	86.6	100	87	80 - 120	P	08/21/2024	13:18	LB132113
	Cadmium	5.65	6.0	94	80 - 120	P	08/21/2024	13:18	LB132113
	Calcium	1830	2000	92	80 - 120	P	08/21/2024	13:18	LB132113
	Chromium	9.08	10.0	91	80 - 120	P	08/21/2024	13:18	LB132113
	Cobalt	28.2	30.0	94	80 - 120	P	08/21/2024	13:18	LB132113
	Copper	21.0	20.0	105	80 - 120	P	08/21/2024	13:18	LB132113
	Iron	91.8	100	92	80 - 120	P	08/21/2024	13:18	LB132113
	Lead	13.4	12.0	112	80 - 120	P	08/21/2024	13:18	LB132113
	Magnesium	1970	2000	99	80 - 120	P	08/21/2024	13:18	LB132113
	Manganese	18.7	20.0	93	80 - 120	P	08/21/2024	13:18	LB132113
	Molybdenum	186	200	93	80 - 120	P	08/21/2024	13:18	LB132113
	Nickel	37.1	40.0	93	80 - 120	P	08/21/2024	13:18	LB132113
	Potassium	1630	2000	82	80 - 120	P	08/21/2024	13:18	LB132113
	Selenium	19.3	20.0	96	80 - 120	P	08/21/2024	13:18	LB132113
	Silver	11.2	10.0	112	80 - 120	P	08/21/2024	13:18	LB132113
	Sodium	1600	2000	80	80 - 120	P	08/21/2024	13:18	LB132113
	Strontium	17.8	20.0	89	80 - 120	P	08/21/2024	13:18	LB132113
	Thallium	38.9	40.0	97	80 - 120	P	08/21/2024	13:18	LB132113
	Tin	35.4	40.0	88	80 - 120	P	08/21/2024	13:18	LB132113
	Titanium	35.3	40.0	88	80 - 120	P	08/21/2024	13:18	LB132113
	Vanadium	35.5	40.0	89	80 - 120	P	08/21/2024	13:18	LB132113
	Zinc	38.3	40.0	96	80 - 120	P	08/21/2024	13:18	LB132113

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10200	10000	102	90 - 110	P	08/21/2024	15:39	LB132113
	Antimony	5210	5000	104	90 - 110	P	08/21/2024	15:39	LB132113
	Arsenic	4960	5000	99	90 - 110	P	08/21/2024	15:39	LB132113
	Barium	10400	10000	104	90 - 110	P	08/21/2024	15:39	LB132113
	Beryllium	252	250	101	90 - 110	P	08/21/2024	15:39	LB132113
	Boron	5070	5000	101	90 - 110	P	08/21/2024	15:39	LB132113
	Cadmium	2490	2500	100	90 - 110	P	08/21/2024	15:39	LB132113
	Calcium	25500	25000	102	90 - 110	P	08/21/2024	15:39	LB132113
	Chromium	1040	1000	104	90 - 110	P	08/21/2024	15:39	LB132113
	Cobalt	2550	2500	102	90 - 110	P	08/21/2024	15:39	LB132113
	Copper	1300	1250	104	90 - 110	P	08/21/2024	15:39	LB132113
	Iron	5340	5000	107	90 - 110	P	08/21/2024	15:39	LB132113
	Lead	4990	5000	100	90 - 110	P	08/21/2024	15:39	LB132113
	Magnesium	25400	25000	102	90 - 110	P	08/21/2024	15:39	LB132113
	Manganese	2580	2500	103	90 - 110	P	08/21/2024	15:39	LB132113
	Molybdenum	5180	5000	104	90 - 110	P	08/21/2024	15:39	LB132113
	Nickel	2590	2500	103	90 - 110	P	08/21/2024	15:39	LB132113
	Potassium	26600	25000	106	90 - 110	P	08/21/2024	15:39	LB132113
	Selenium	5070	5000	101	90 - 110	P	08/21/2024	15:39	LB132113
	Silver	1240	1250	99	90 - 110	P	08/21/2024	15:39	LB132113
	Sodium	26600	25000	107	90 - 110	P	08/21/2024	15:39	LB132113
	Strontium	5020	5000	100	90 - 110	P	08/21/2024	15:39	LB132113
	Thallium	4960	5000	99	90 - 110	P	08/21/2024	15:39	LB132113
	Tin	5140	5000	103	90 - 110	P	08/21/2024	15:39	LB132113
	Titanium	5150	5000	103	90 - 110	P	08/21/2024	15:39	LB132113
	Vanadium	2580	2500	103	90 - 110	P	08/21/2024	15:39	LB132113
	Zinc	2550	2500	102	90 - 110	P	08/21/2024	15:39	LB132113
CCV02	Aluminum	9800	10000	98	90 - 110	P	08/21/2024	16:59	LB132113
	Antimony	4920	5000	98	90 - 110	P	08/21/2024	16:59	LB132113
	Arsenic	4770	5000	96	90 - 110	P	08/21/2024	16:59	LB132113
	Barium	9540	10000	95	90 - 110	P	08/21/2024	16:59	LB132113
	Beryllium	267	250	107	90 - 110	P	08/21/2024	16:59	LB132113
	Boron	5380	5000	108	90 - 110	P	08/21/2024	16:59	LB132113
	Cadmium	2380	2500	95	90 - 110	P	08/21/2024	16:59	LB132113

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Calcium	24600	25000	98	90 - 110	P	08/21/2024	16:59	LB132113
	Chromium	971	1000	97	90 - 110	P	08/21/2024	16:59	LB132113
	Cobalt	2440	2500	98	90 - 110	P	08/21/2024	16:59	LB132113
	Copper	1230	1250	99	90 - 110	P	08/21/2024	16:59	LB132113
	Iron	4530	5000	90	90 - 110	P	08/21/2024	16:59	LB132113
	Lead	4730	5000	94	90 - 110	P	08/21/2024	16:59	LB132113
	Magnesium	24500	25000	98	90 - 110	P	08/21/2024	16:59	LB132113
	Manganese	2460	2500	98	90 - 110	P	08/21/2024	16:59	LB132113
	Molybdenum	4860	5000	97	90 - 110	P	08/21/2024	16:59	LB132113
	Nickel	2460	2500	98	90 - 110	P	08/21/2024	16:59	LB132113
	Potassium	23000	25000	92	90 - 110	P	08/21/2024	16:59	LB132113
	Selenium	4980	5000	100	90 - 110	P	08/21/2024	16:59	LB132113
	Silver	1200	1250	96	90 - 110	P	08/21/2024	16:59	LB132113
	Sodium	22700	25000	91	90 - 110	P	08/21/2024	16:59	LB132113
	Strontium	4730	5000	95	90 - 110	P	08/21/2024	16:59	LB132113
	Thallium	5030	5000	101	90 - 110	P	08/21/2024	16:59	LB132113
	Tin	4990	5000	100	90 - 110	P	08/21/2024	16:59	LB132113
	Titanium	4910	5000	98	90 - 110	P	08/21/2024	16:59	LB132113
	Vanadium	2440	2500	98	90 - 110	P	08/21/2024	16:59	LB132113
	Zinc	2360	2500	94	90 - 110	P	08/21/2024	16:59	LB132113
CCV03	Aluminum	9850	10000	98	90 - 110	P	08/21/2024	17:51	LB132113
	Antimony	5060	5000	101	90 - 110	P	08/21/2024	17:51	LB132113
	Arsenic	4850	5000	97	90 - 110	P	08/21/2024	17:51	LB132113
	Barium	9850	10000	98	90 - 110	P	08/21/2024	17:51	LB132113
	Beryllium	262	250	105	90 - 110	P	08/21/2024	17:51	LB132113
	Boron	5300	5000	106	90 - 110	P	08/21/2024	17:51	LB132113
	Cadmium	2450	2500	98	90 - 110	P	08/21/2024	17:51	LB132113
	Calcium	25000	25000	100	90 - 110	P	08/21/2024	17:51	LB132113
	Chromium	993	1000	99	90 - 110	P	08/21/2024	17:51	LB132113
	Cobalt	2520	2500	101	90 - 110	P	08/21/2024	17:51	LB132113
	Copper	1260	1250	101	90 - 110	P	08/21/2024	17:51	LB132113
	Iron	4790	5000	96	90 - 110	P	08/21/2024	17:51	LB132113
	Lead	4880	5000	98	90 - 110	P	08/21/2024	17:51	LB132113
	Magnesium	24800	25000	99	90 - 110	P	08/21/2024	17:51	LB132113

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Manganese	2500	2500	100	90 - 110	P	08/21/2024	17:51	LB132113
	Molybdenum	5060	5000	101	90 - 110	P	08/21/2024	17:51	LB132113
	Nickel	2530	2500	101	90 - 110	P	08/21/2024	17:51	LB132113
	Potassium	23900	25000	96	90 - 110	P	08/21/2024	17:51	LB132113
	Selenium	5030	5000	101	90 - 110	P	08/21/2024	17:51	LB132113
	Silver	1230	1250	98	90 - 110	P	08/21/2024	17:51	LB132113
	Sodium	23600	25000	94	90 - 110	P	08/21/2024	17:51	LB132113
	Strontium	4790	5000	96	90 - 110	P	08/21/2024	17:51	LB132113
	Thallium	5060	5000	101	90 - 110	P	08/21/2024	17:51	LB132113
	Tin	5110	5000	102	90 - 110	P	08/21/2024	17:51	LB132113
	Titanium	4990	5000	100	90 - 110	P	08/21/2024	17:51	LB132113
	Vanadium	2480	2500	99	90 - 110	P	08/21/2024	17:51	LB132113
	Zinc	2320	2500	93	90 - 110	P	08/21/2024	17:51	LB132113
CCV04	Aluminum	9430	10000	94	90 - 110	P	08/21/2024	19:03	LB132113
	Antimony	4850	5000	97	90 - 110	P	08/21/2024	19:03	LB132113
	Arsenic	4610	5000	92	90 - 110	P	08/21/2024	19:03	LB132113
	Barium	9480	10000	95	90 - 110	P	08/21/2024	19:03	LB132113
	Beryllium	241	250	96	90 - 110	P	08/21/2024	19:03	LB132113
	Boron	4870	5000	97	90 - 110	P	08/21/2024	19:03	LB132113
	Cadmium	2380	2500	95	90 - 110	P	08/21/2024	19:03	LB132113
	Calcium	24000	25000	96	90 - 110	P	08/21/2024	19:03	LB132113
	Chromium	979	1000	98	90 - 110	P	08/21/2024	19:03	LB132113
	Cobalt	2450	2500	98	90 - 110	P	08/21/2024	19:03	LB132113
	Copper	1210	1250	97	90 - 110	P	08/21/2024	19:03	LB132113
	Iron	4940	5000	99	90 - 110	P	08/21/2024	19:03	LB132113
	Lead	4710	5000	94	90 - 110	P	08/21/2024	19:03	LB132113
	Magnesium	23700	25000	95	90 - 110	P	08/21/2024	19:03	LB132113
	Manganese	2390	2500	96	90 - 110	P	08/21/2024	19:03	LB132113
	Molybdenum	4930	5000	99	90 - 110	P	08/21/2024	19:03	LB132113
	Nickel	2450	2500	98	90 - 110	P	08/21/2024	19:03	LB132113
	Potassium	24600	25000	98	90 - 110	P	08/21/2024	19:03	LB132113
	Selenium	4770	5000	95	90 - 110	P	08/21/2024	19:03	LB132113
	Silver	1230	1250	99	90 - 110	P	08/21/2024	19:03	LB132113
	Sodium	24100	25000	96	90 - 110	P	08/21/2024	19:03	LB132113

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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: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Strontium	4640	5000	93	90 - 110	P	08/21/2024	19:03	LB132113
	Thallium	4940	5000	99	90 - 110	P	08/21/2024	19:03	LB132113
	Tin	4970	5000	100	90 - 110	P	08/21/2024	19:03	LB132113
	Titanium	4780	5000	96	90 - 110	P	08/21/2024	19:03	LB132113
	Vanadium	2380	2500	95	90 - 110	P	08/21/2024	19:03	LB132113
	Zinc	2660	2500	106	90 - 110	P	08/21/2024	19:03	LB132113
CCV05	Aluminum	9840	10000	98	90 - 110	P	08/21/2024	20:21	LB132113
	Antimony	4850	5000	97	90 - 110	P	08/21/2024	20:21	LB132113
	Arsenic	4750	5000	95	90 - 110	P	08/21/2024	20:21	LB132113
	Barium	9680	10000	97	90 - 110	P	08/21/2024	20:21	LB132113
	Beryllium	227	250	91	90 - 110	P	08/21/2024	20:21	LB132113
	Boron	5250	5000	105	90 - 110	P	08/21/2024	20:21	LB132113
	Cadmium	2510	2500	100	90 - 110	P	08/21/2024	20:21	LB132113
	Calcium	25300	25000	101	90 - 110	P	08/21/2024	20:21	LB132113
	Chromium	1020	1000	102	90 - 110	P	08/21/2024	20:21	LB132113
	Cobalt	2540	2500	102	90 - 110	P	08/21/2024	20:21	LB132113
	Copper	1240	1250	99	90 - 110	P	08/21/2024	20:21	LB132113
	Iron	4680	5000	94	90 - 110	P	08/21/2024	20:21	LB132113
	Lead	4960	5000	99	90 - 110	P	08/21/2024	20:21	LB132113
	Magnesium	25700	25000	103	90 - 110	P	08/21/2024	20:21	LB132113
	Manganese	2500	2500	100	90 - 110	P	08/21/2024	20:21	LB132113
	Molybdenum	4940	5000	99	90 - 110	P	08/21/2024	20:21	LB132113
	Nickel	2550	2500	102	90 - 110	P	08/21/2024	20:21	LB132113
	Potassium	23200	25000	93	90 - 110	P	08/21/2024	20:21	LB132113
	Selenium	4910	5000	98	90 - 110	P	08/21/2024	20:21	LB132113
	Silver	1270	1250	102	90 - 110	P	08/21/2024	20:21	LB132113
	Sodium	22600	25000	91	90 - 110	P	08/21/2024	20:21	LB132113
	Strontium	4740	5000	95	90 - 110	P	08/21/2024	20:21	LB132113
	Thallium	5100	5000	102	90 - 110	P	08/21/2024	20:21	LB132113
	Tin	5240	5000	105	90 - 110	P	08/21/2024	20:21	LB132113
	Titanium	4930	5000	99	90 - 110	P	08/21/2024	20:21	LB132113
	Vanadium	2480	2500	99	90 - 110	P	08/21/2024	20:21	LB132113
	Zinc	2410	2500	96	90 - 110	P	08/21/2024	20:21	LB132113