

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** P3846

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

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	512	500	102	90 - 110	P	10/17/2024	17:03	LB132993
	Antimony	198	200	99	90 - 110	P	10/17/2024	17:03	LB132993
	Arsenic	199	200	99	90 - 110	P	10/17/2024	17:03	LB132993
	Barium	95.9	100	96	90 - 110	P	10/17/2024	17:03	LB132993
	Beryllium	101	100	101	90 - 110	P	10/17/2024	17:03	LB132993
	Cadmium	110	100	110	90 - 110	P	10/17/2024	17:03	LB132993
	Calcium	2160	2000	108	90 - 110	P	10/17/2024	17:03	LB132993
	Chromium	103	100	103	90 - 110	P	10/17/2024	17:03	LB132993
	Cobalt	102	100	102	90 - 110	P	10/17/2024	17:03	LB132993
	Copper	96.9	100	97	90 - 110	P	10/17/2024	17:03	LB132993
	Iron	2170	2000	108	90 - 110	P	10/17/2024	17:03	LB132993
	Lead	188	200	94	90 - 110	P	10/17/2024	17:03	LB132993
	Magnesium	1220	1200	102	90 - 110	P	10/17/2024	17:03	LB132993
	Manganese	101	100	101	90 - 110	P	10/17/2024	17:03	LB132993
	Molybdenum	4950	5000	99	90 - 110	P	10/17/2024	17:03	LB132993
	Nickel	104	110	95	90 - 110	P	10/17/2024	17:03	LB132993
	Potassium	2130	2000	106	90 - 110	P	10/17/2024	17:03	LB132993
	Selenium	206	200	103	90 - 110	P	10/17/2024	17:03	LB132993
	Silver	51.2	50.0	102	90 - 110	P	10/17/2024	17:03	LB132993
	Sodium	2140	2000	107	90 - 110	P	10/17/2024	17:03	LB132993
	Strontium	508	500	102	90 - 110	P	10/17/2024	17:03	LB132993
	Thallium	212	210	101	90 - 110	P	10/17/2024	17:03	LB132993
	Tin	550	500	110	90 - 110	P	10/17/2024	17:03	LB132993
	Titanium	4950	5000	99	90 - 110	P	10/17/2024	17:03	LB132993
	Vanadium	95.9	100	96	90 - 110	P	10/17/2024	17:03	LB132993
	Zinc	198	200	99	90 - 110	P	10/17/2024	17:03	LB132993

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Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

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	19.6	20.0	98	70 - 130	P	10/17/2024	17:09	LB132993
	Antimony	2.11	2.0	106	70 - 130	P	10/17/2024	17:09	LB132993
	Arsenic	1.03	1.0	103	70 - 130	P	10/17/2024	17:09	LB132993
	Barium	9.51	10.0	95	70 - 130	P	10/17/2024	17:09	LB132993
	Beryllium	1.10	1.0	110	70 - 130	P	10/17/2024	17:09	LB132993
	Cadmium	1.03	1.0	103	70 - 130	P	10/17/2024	17:09	LB132993
	Calcium	541	500	108	70 - 130	P	10/17/2024	17:09	LB132993
	Chromium	2.01	2.0	100	70 - 130	P	10/17/2024	17:09	LB132993
	Cobalt	1.06	1.0	106	70 - 130	P	10/17/2024	17:09	LB132993
	Copper	1.93	2.0	96	70 - 130	P	10/17/2024	17:09	LB132993
	Iron	54.5	50.0	109	70 - 130	P	10/17/2024	17:09	LB132993
	Lead	0.94	1.0	94	70 - 130	P	10/17/2024	17:09	LB132993
	Magnesium	535	500	107	70 - 130	P	10/17/2024	17:09	LB132993
	Manganese	1.06	1.0	106	70 - 130	P	10/17/2024	17:09	LB132993
	Molybdenum	5.10	5.0	102	70 - 130	P	10/17/2024	17:09	LB132993
	Nickel	1.00	1.0	100	70 - 130	P	10/17/2024	17:09	LB132993
	Potassium	514	500	103	70 - 130	P	10/17/2024	17:09	LB132993
	Selenium	5.59	5.0	112	70 - 130	P	10/17/2024	17:09	LB132993
	Silver	1.01	1.0	101	70 - 130	P	10/17/2024	17:09	LB132993
	Sodium	551	500	110	70 - 130	P	10/17/2024	17:09	LB132993
	Strontium	1.05	1.0	105	70 - 130	P	10/17/2024	17:09	LB132993
	Thallium	0.89	1.0	89	70 - 130	P	10/17/2024	17:09	LB132993
	Tin	4.90	5.0	98	70 - 130	P	10/17/2024	17:09	LB132993
	Titanium	5.54	5.0	111	70 - 130	P	10/17/2024	17:09	LB132993
	Vanadium	4.82	5.0	96	70 - 130	P	10/17/2024	17:09	LB132993
	Zinc	5.27	5.0	105	70 - 130	P	10/17/2024	17:09	LB132993

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Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

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	49400	50000	99	90 - 110	P	10/17/2024	18:04	LB132993
	Antimony	490	500	98	90 - 110	P	10/17/2024	18:04	LB132993
	Arsenic	456	500	91	90 - 110	P	10/17/2024	18:04	LB132993
	Barium	2430	2500	97	90 - 110	P	10/17/2024	18:04	LB132993
	Beryllium	485	500	97	90 - 110	P	10/17/2024	18:04	LB132993
	Cadmium	474	500	95	90 - 110	P	10/17/2024	18:04	LB132993
	Calcium	243000	250000	97	90 - 110	P	10/17/2024	18:04	LB132993
	Chromium	472	500	94	90 - 110	P	10/17/2024	18:04	LB132993
	Cobalt	501	500	100	90 - 110	P	10/17/2024	18:04	LB132993
	Copper	4900	5000	98	90 - 110	P	10/17/2024	18:04	LB132993
	Iron	127000	125000	101	90 - 110	P	10/17/2024	18:04	LB132993
	Lead	2470	2500	99	90 - 110	P	10/17/2024	18:04	LB132993
	Magnesium	243000	250000	97	90 - 110	P	10/17/2024	18:04	LB132993
	Manganese	4590	5000	92	90 - 110	P	10/17/2024	18:04	LB132993
	Molybdenum	5280	5500	96	90 - 110	P	10/17/2024	18:04	LB132993
	Nickel	493	500	99	90 - 110	P	10/17/2024	18:04	LB132993
	Potassium	123000	125000	98	90 - 110	P	10/17/2024	18:04	LB132993
	Selenium	472	500	94	90 - 110	P	10/17/2024	18:04	LB132993
	Silver	475	500	95	90 - 110	P	10/17/2024	18:04	LB132993
	Sodium	250000	250000	100	90 - 110	P	10/17/2024	18:04	LB132993
	Strontium	12100	12500	97	90 - 110	P	10/17/2024	18:04	LB132993
	Thallium	495	500	99	90 - 110	P	10/17/2024	18:04	LB132993
	Tin	502	500	100	90 - 110	P	10/17/2024	18:04	LB132993
	Titanium	5290	5500	96	90 - 110	P	10/17/2024	18:04	LB132993
	Vanadium	466	500	93	90 - 110	P	10/17/2024	18:04	LB132993
	Zinc	4840	5000	97	90 - 110	P	10/17/2024	18:04	LB132993
CCV02	Aluminum	48200	50000	96	90 - 110	P	10/17/2024	18:55	LB132993
	Antimony	480	500	96	90 - 110	P	10/17/2024	18:55	LB132993
	Arsenic	453	500	91	90 - 110	P	10/17/2024	18:55	LB132993
	Barium	2400	2500	96	90 - 110	P	10/17/2024	18:55	LB132993
	Beryllium	483	500	97	90 - 110	P	10/17/2024	18:55	LB132993
	Cadmium	464	500	93	90 - 110	P	10/17/2024	18:55	LB132993
	Calcium	242000	250000	97	90 - 110	P	10/17/2024	18:55	LB132993
	Chromium	464	500	93	90 - 110	P	10/17/2024	18:55	LB132993

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Cobalt	493	500	99	90 - 110	P	10/17/2024	18:55	LB132993
	Copper	4840	5000	97	90 - 110	P	10/17/2024	18:55	LB132993
	Iron	126000	125000	100	90 - 110	P	10/17/2024	18:55	LB132993
	Lead	2440	2500	98	90 - 110	P	10/17/2024	18:55	LB132993
	Magnesium	239000	250000	96	90 - 110	P	10/17/2024	18:55	LB132993
	Manganese	4550	5000	91	90 - 110	P	10/17/2024	18:55	LB132993
	Molybdenum	5250	5500	95	90 - 110	P	10/17/2024	18:55	LB132993
	Nickel	486	500	97	90 - 110	P	10/17/2024	18:55	LB132993
	Potassium	121000	125000	97	90 - 110	P	10/17/2024	18:55	LB132993
	Selenium	460	500	92	90 - 110	P	10/17/2024	18:55	LB132993
	Silver	464	500	93	90 - 110	P	10/17/2024	18:55	LB132993
	Sodium	243000	250000	97	90 - 110	P	10/17/2024	18:55	LB132993
	Strontium	11900	12500	96	90 - 110	P	10/17/2024	18:55	LB132993
	Thallium	492	500	98	90 - 110	P	10/17/2024	18:55	LB132993
	Tin	495	500	99	90 - 110	P	10/17/2024	18:55	LB132993
	Titanium	5320	5500	97	90 - 110	P	10/17/2024	18:55	LB132993
	Vanadium	456	500	91	90 - 110	P	10/17/2024	18:55	LB132993
	Zinc	4770	5000	95	90 - 110	P	10/17/2024	18:55	LB132993
CCV03	Aluminum	49300	50000	99	90 - 110	P	10/17/2024	19:29	LB132993
	Antimony	494	500	99	90 - 110	P	10/17/2024	19:29	LB132993
	Arsenic	460	500	92	90 - 110	P	10/17/2024	19:29	LB132993
	Barium	2480	2500	99	90 - 110	P	10/17/2024	19:29	LB132993
	Beryllium	493	500	99	90 - 110	P	10/17/2024	19:29	LB132993
	Cadmium	475	500	95	90 - 110	P	10/17/2024	19:29	LB132993
	Calcium	251000	250000	100	90 - 110	P	10/17/2024	19:29	LB132993
	Chromium	475	500	95	90 - 110	P	10/17/2024	19:29	LB132993
	Cobalt	499	500	100	90 - 110	P	10/17/2024	19:29	LB132993
	Copper	4900	5000	98	90 - 110	P	10/17/2024	19:29	LB132993
	Iron	128000	125000	102	90 - 110	P	10/17/2024	19:29	LB132993
	Lead	2520	2500	101	90 - 110	P	10/17/2024	19:29	LB132993
	Magnesium	243000	250000	97	90 - 110	P	10/17/2024	19:29	LB132993
	Manganese	4650	5000	93	90 - 110	P	10/17/2024	19:29	LB132993
	Molybdenum	5460	5500	99	90 - 110	P	10/17/2024	19:29	LB132993
	Nickel	490	500	98	90 - 110	P	10/17/2024	19:29	LB132993

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Potassium	125000	125000	100	90 - 110	P	10/17/2024	19:29	LB132993
	Selenium	473	500	95	90 - 110	P	10/17/2024	19:29	LB132993
	Silver	479	500	96	90 - 110	P	10/17/2024	19:29	LB132993
	Sodium	249000	250000	100	90 - 110	P	10/17/2024	19:29	LB132993
	Strontium	12400	12500	99	90 - 110	P	10/17/2024	19:29	LB132993
	Thallium	505	500	101	90 - 110	P	10/17/2024	19:29	LB132993
	Tin	495	500	99	90 - 110	P	10/17/2024	19:29	LB132993
	Titanium	5410	5500	98	90 - 110	P	10/17/2024	19:29	LB132993
	Vanadium	469	500	94	90 - 110	P	10/17/2024	19:29	LB132993
	Zinc	4800	5000	96	90 - 110	P	10/17/2024	19:29	LB132993