



LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-10	PT-MET-SOIL	SOIL			10/21/24			10/23/24
			Mercury	7471B		10/30/24	10/31/24	
			Metals ICP-Group1	6010D		11/26/24	11/27/24	
			Metals ICP-Group1	6010D		11/26/24	12/04/24	

Hit Summary Sheet SW-846

SDG No.: P4495

Order ID: P4495

Client: Chemtech Consulting Group

Project ID: NJ Soil PT

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-MET-SOIL								
P4495-10	PT-MET-SOIL	SOIL	Aluminum	10700		2.14	4.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Antimony	50.3		0.13	2.22	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Arsenic	83.2		0.26	0.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Barium	265		0.57	4.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Beryllium	139	D	0.11	2.67	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Boron	308		0.70	4.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Cadmium	73.5		0.014	0.27	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Calcium	5000		2.49	88.9	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Chromium	283	D	0.24	2.22	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Cobalt	101		0.052	1.33	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Copper	229		0.42	0.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Iron	10400		2.39	4.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Lead	181		0.13	0.53	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Magnesium	6900		3.05	88.9	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Manganese	896		0.063	0.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Mercury	21.8	D	0.29	0.65	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Nickel	95.8		0.080	1.78	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Potassium	8040		25.5	88.9	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Selenium	164		0.29	0.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Silicon	430		3.64	17.8	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Silver	29.2		0.046	0.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Sulfur	409		0.30	1.78	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Sodium	8990		32.1	88.9	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Strontium	231		0.22	8.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Lithium	629	D	0.17	4.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Thallium	175		0.39	1.78	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Tin	73.7		0.15	1.78	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Titanium	350	D	0.98	8.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Vanadium	213		0.24	1.78	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Zinc	267		0.098	1.78	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-MET-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-10	Matrix:	SOIL
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	10700		1	2.14	4.44	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-36-0	Antimony	50.3		1	0.13	2.22	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-38-2	Arsenic	83.2		1	0.26	0.89	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-39-3	Barium	265		1	0.57	4.44	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-41-7	Beryllium	139	D	10	0.11	2.67	mg/Kg	11/26/24 12:45	12/04/24 14:33	SW6010	SW3050
7440-42-8	Boron	308		1	0.70	4.44	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-43-9	Cadmium	73.5		1	0.014	0.27	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-70-2	Calcium	5000		1	2.49	88.9	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-47-3	Chromium	283	D	5	0.24	2.22	mg/Kg	11/26/24 12:45	11/27/24 15:07	SW6010	SW3050
7440-48-4	Cobalt	101		1	0.052	1.33	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-50-8	Copper	229		1	0.42	0.89	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7439-89-6	Iron	10400		1	2.39	4.44	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7439-92-1	Lead	181		1	0.13	0.53	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7439-93-2	Lithium	629	D	5	0.17	4.44	mg/Kg	11/26/24 12:45	11/27/24 15:07	SW6010	SW3050
7439-95-4	Magnesium	6900		1	3.05	88.9	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7439-96-5	Manganese	896		1	0.063	0.89	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7439-97-6	Mercury	21.8	D	50	0.29	0.65	mg/Kg	10/30/24 16:50	10/31/24 12:00	SW7471B	
7440-02-0	Nickel	95.8		1	0.080	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-09-7	Potassium	8040		1	25.5	88.9	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7782-49-2	Selenium	164		1	0.29	0.89	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-21-3	Silicon	430		1	3.64	17.8	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-22-4	Silver	29.2		1	0.046	0.44	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-23-5	Sodium	8990		1	32.1	88.9	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-24-6	Strontium	231		1	0.22	8.89	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7704-34-9	Sulfur	409		1	0.30	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-28-0	Thallium	175		1	0.39	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-31-5	Tin	73.7		1	0.15	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-32-6	Titanium	350	D	5	0.98	8.89	mg/Kg	11/26/24 12:45	11/27/24 15:07	SW6010	SW3050
7440-62-2	Vanadium	213		1	0.24	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-66-6	Zinc	267		1	0.098	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	Mercury			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits



METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
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
ICV61	Mercury	3.77	4.0	94	90 - 110	CV	10/31/2024	10:21	LB133227

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
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	Mercury	4.88	5.0	98	90 - 110	CV	10/31/2024	10:25	LB133227
CCV05	Mercury	4.92	5.0	98	90 - 110	CV	10/31/2024	10:56	LB133227
CCV06	Mercury	4.95	5.0	99	90 - 110	CV	10/31/2024	11:26	LB133227
CCV07	Mercury	4.93	5.0	99	90 - 110	CV	10/31/2024	12:02	LB133227

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	2690	2500	108	90 - 110	P	11/27/2024	12:25	LB133669
	Antimony	1030	1000	103	90 - 110	P	11/27/2024	12:25	LB133669
	Arsenic	1040	1000	104	90 - 110	P	11/27/2024	12:25	LB133669
	Barium	546	520	105	90 - 110	P	11/27/2024	12:25	LB133669
	Beryllium	516	510	101	90 - 110	P	11/27/2024	12:25	LB133669
	Boron	2510	2500	100	90 - 110	P	11/27/2024	12:25	LB133669
	Cadmium	514	510	101	90 - 110	P	11/27/2024	12:25	LB133669
	Calcium	10400	10000	104	90 - 110	P	11/27/2024	12:25	LB133669
	Chromium	528	520	102	90 - 110	P	11/27/2024	12:25	LB133669
	Cobalt	518	520	100	90 - 110	P	11/27/2024	12:25	LB133669
	Copper	532	510	104	90 - 110	P	11/27/2024	12:25	LB133669
	Iron	9930	10000	99	90 - 110	P	11/27/2024	12:25	LB133669
	Lead	1020	1000	102	90 - 110	P	11/27/2024	12:25	LB133669
	Lithium	2380	2500	95	90 - 110	P	11/27/2024	12:25	LB133669
	Magnesium	6080	6000	101	90 - 110	P	11/27/2024	12:25	LB133669
	Manganese	533	520	103	90 - 110	P	11/27/2024	12:25	LB133669
	Nickel	520	530	98	90 - 110	P	11/27/2024	12:25	LB133669
	Potassium	10100	9900	102	90 - 110	P	11/27/2024	12:25	LB133669
	Selenium	1080	1000	108	90 - 110	P	11/27/2024	12:25	LB133669
	Silicon	2460	2500	98	90 - 110	P	11/27/2024	12:25	LB133669
	Silver	255	250	102	90 - 110	P	11/27/2024	12:25	LB133669
	Sodium	9690	10000	97	90 - 110	P	11/27/2024	12:25	LB133669
	Strontium	2440	2500	98	90 - 110	P	11/27/2024	12:25	LB133669
	Sulfur	2340	2500	93	90 - 110	P	11/27/2024	12:25	LB133669
	Thallium	1080	1000	108	90 - 110	P	11/27/2024	12:25	LB133669
	Tin	2490	2500	100	90 - 110	P	11/27/2024	12:25	LB133669
	Titanium	2610	2500	104	90 - 110	P	11/27/2024	12:25	LB133669
	Vanadium	522	500	104	90 - 110	P	11/27/2024	12:25	LB133669
	Zinc	1060	1000	106	90 - 110	P	11/27/2024	12:25	LB133669

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	106	100	106	80 - 120	P	11/27/2024	12:38	LB133669
	Antimony	51.0	50.0	102	80 - 120	P	11/27/2024	12:38	LB133669
	Arsenic	21.9	20.0	109	80 - 120	P	11/27/2024	12:38	LB133669
	Barium	99.6	100	100	80 - 120	P	11/27/2024	12:38	LB133669
	Beryllium	5.87	6.0	98	80 - 120	P	11/27/2024	12:38	LB133669
	Boron	104	100	104	80 - 120	P	11/27/2024	12:38	LB133669
	Cadmium	5.82	6.0	97	80 - 120	P	11/27/2024	12:38	LB133669
	Calcium	2010	2000	100	80 - 120	P	11/27/2024	12:38	LB133669
	Chromium	10.4	10.0	104	80 - 120	P	11/27/2024	12:38	LB133669
	Cobalt	29.5	30.0	98	80 - 120	P	11/27/2024	12:38	LB133669
	Copper	22.1	20.0	111	80 - 120	P	11/27/2024	12:38	LB133669
	Iron	98.4	100	98	80 - 120	P	11/27/2024	12:38	LB133669
	Lead	11.9	12.0	99	80 - 120	P	11/27/2024	12:38	LB133669
	Lithium	18.8	20.0	94	80 - 120	P	11/27/2024	12:38	LB133669
	Magnesium	2070	2000	103	80 - 120	P	11/27/2024	12:38	LB133669
	Manganese	20.3	20.0	102	80 - 120	P	11/27/2024	12:38	LB133669
	Nickel	39.1	40.0	98	80 - 120	P	11/27/2024	12:38	LB133669
	Potassium	1890	2000	94	80 - 120	P	11/27/2024	12:38	LB133669
	Selenium	19.7	20.0	98	80 - 120	P	11/27/2024	12:38	LB133669
	Silicon	338	400	84	80 - 120	P	11/27/2024	12:38	LB133669
	Silver	10.4	10.0	104	80 - 120	P	11/27/2024	12:38	LB133669
	Sodium	1760	2000	88	80 - 120	P	11/27/2024	12:38	LB133669
	Strontium	20.7	20.0	104	80 - 120	P	11/27/2024	12:38	LB133669
	Sulfur	18.4	20.0	92	80 - 120	P	11/27/2024	12:38	LB133669
	Thallium	42.2	40.0	106	80 - 120	P	11/27/2024	12:38	LB133669
	Tin	38.5	40.0	96	80 - 120	P	11/27/2024	12:38	LB133669
	Titanium	40.1	40.0	100	80 - 120	P	11/27/2024	12:38	LB133669
	Vanadium	39.9	40.0	100	80 - 120	P	11/27/2024	12:38	LB133669
	Zinc	47.3	40.0	118	80 - 120	P	11/27/2024	12:38	LB133669

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	10600	10000	106	90 - 110	P	11/27/2024	14:08	LB133669
	Antimony	5250	5000	105	90 - 110	P	11/27/2024	14:08	LB133669
	Arsenic	5220	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Barium	10600	10000	106	90 - 110	P	11/27/2024	14:08	LB133669
	Beryllium	264	250	105	90 - 110	P	11/27/2024	14:08	LB133669
	Boron	5250	5000	105	90 - 110	P	11/27/2024	14:08	LB133669
	Cadmium	2590	2500	104	90 - 110	P	11/27/2024	14:08	LB133669
	Calcium	26100	25000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Chromium	1060	1000	106	90 - 110	P	11/27/2024	14:08	LB133669
	Cobalt	2590	2500	104	90 - 110	P	11/27/2024	14:08	LB133669
	Copper	1320	1250	106	90 - 110	P	11/27/2024	14:08	LB133669
	Iron	5210	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Lead	5190	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Lithium	5300	5000	106	90 - 110	P	11/27/2024	14:08	LB133669
	Magnesium	26000	25000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Manganese	2600	2500	104	90 - 110	P	11/27/2024	14:08	LB133669
	Nickel	2590	2500	104	90 - 110	P	11/27/2024	14:08	LB133669
	Potassium	26400	25000	106	90 - 110	P	11/27/2024	14:08	LB133669
	Selenium	5220	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Silicon	5210	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Silver	1310	1250	105	90 - 110	P	11/27/2024	14:08	LB133669
	Sodium	27000	25000	108	90 - 110	P	11/27/2024	14:08	LB133669
	Strontium	5360	5000	107	90 - 110	P	11/27/2024	14:08	LB133669
	Sulfur	5080	5000	102	90 - 110	P	11/27/2024	14:08	LB133669
	Thallium	4830	5000	97	90 - 110	P	11/27/2024	14:08	LB133669
	Tin	5180	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Titanium	5260	5000	105	90 - 110	P	11/27/2024	14:08	LB133669
	Vanadium	2640	2500	106	90 - 110	P	11/27/2024	14:08	LB133669
	Zinc	2660	2500	106	90 - 110	P	11/27/2024	14:08	LB133669
CCV02	Aluminum	9850	10000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Antimony	4830	5000	97	90 - 110	P	11/27/2024	15:50	LB133669
	Arsenic	4810	5000	96	90 - 110	P	11/27/2024	15:50	LB133669
	Barium	10100	10000	101	90 - 110	P	11/27/2024	15:50	LB133669
	Beryllium	255	250	102	90 - 110	P	11/27/2024	15:50	LB133669

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	Boron	5080	5000	102	90 - 110	P	11/27/2024	15:50	LB133669
	Cadmium	2430	2500	97	90 - 110	P	11/27/2024	15:50	LB133669
	Calcium	25000	25000	100	90 - 110	P	11/27/2024	15:50	LB133669
	Chromium	978	1000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Cobalt	2420	2500	97	90 - 110	P	11/27/2024	15:50	LB133669
	Copper	1210	1250	97	90 - 110	P	11/27/2024	15:50	LB133669
	Iron	4830	5000	97	90 - 110	P	11/27/2024	15:50	LB133669
	Lead	4880	5000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Lithium	4900	5000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Magnesium	24600	25000	99	90 - 110	P	11/27/2024	15:50	LB133669
	Manganese	2510	2500	101	90 - 110	P	11/27/2024	15:50	LB133669
	Nickel	2420	2500	97	90 - 110	P	11/27/2024	15:50	LB133669
	Potassium	23800	25000	95	90 - 110	P	11/27/2024	15:50	LB133669
	Selenium	4840	5000	97	90 - 110	P	11/27/2024	15:50	LB133669
	Silicon	4720	5000	94	90 - 110	P	11/27/2024	15:50	LB133669
	Silver	1220	1250	98	90 - 110	P	11/27/2024	15:50	LB133669
	Sodium	24400	25000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Strontium	5120	5000	102	90 - 110	P	11/27/2024	15:50	LB133669
	Sulfur	4850	5000	97	90 - 110	P	11/27/2024	15:50	LB133669
	Thallium	4980	5000	100	90 - 110	P	11/27/2024	15:50	LB133669
	Tin	4880	5000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Titanium	5000	5000	100	90 - 110	P	11/27/2024	15:50	LB133669
	Vanadium	2500	2500	100	90 - 110	P	11/27/2024	15:50	LB133669
	Zinc	2460	2500	99	90 - 110	P	11/27/2024	15:50	LB133669
CCV03	Aluminum	10600	10000	106	90 - 110	P	11/27/2024	16:03	LB133669
	Antimony	5230	5000	104	90 - 110	P	11/27/2024	16:03	LB133669
	Arsenic	5230	5000	104	90 - 110	P	11/27/2024	16:03	LB133669
	Barium	10700	10000	108	90 - 110	P	11/27/2024	16:03	LB133669
	Beryllium	272	250	109	90 - 110	P	11/27/2024	16:03	LB133669
	Boron	5400	5000	108	90 - 110	P	11/27/2024	16:03	LB133669
	Cadmium	2660	2500	106	90 - 110	P	11/27/2024	16:03	LB133669
	Calcium	26900	25000	108	90 - 110	P	11/27/2024	16:03	LB133669
	Chromium	1060	1000	106	90 - 110	P	11/27/2024	16:03	LB133669
	Cobalt	2650	2500	106	90 - 110	P	11/27/2024	16:03	LB133669

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	Copper	1320	1250	105	90 - 110	P	11/27/2024	16:03	LB133669
	Iron	5160	5000	103	90 - 110	P	11/27/2024	16:03	LB133669
	Lead	5310	5000	106	90 - 110	P	11/27/2024	16:03	LB133669
	Lithium	5230	5000	105	90 - 110	P	11/27/2024	16:03	LB133669
	Magnesium	26700	25000	107	90 - 110	P	11/27/2024	16:03	LB133669
	Manganese	2690	2500	108	90 - 110	P	11/27/2024	16:03	LB133669
	Nickel	2650	2500	106	90 - 110	P	11/27/2024	16:03	LB133669
	Potassium	25400	25000	101	90 - 110	P	11/27/2024	16:03	LB133669
	Selenium	5240	5000	105	90 - 110	P	11/27/2024	16:03	LB133669
	Silicon	5070	5000	101	90 - 110	P	11/27/2024	16:03	LB133669
	Silver	1300	1250	104	90 - 110	P	11/27/2024	16:03	LB133669
	Sodium	25800	25000	103	90 - 110	P	11/27/2024	16:03	LB133669
	Strontium	5470	5000	109	90 - 110	P	11/27/2024	16:03	LB133669
	Sulfur	5300	5000	106	90 - 110	P	11/27/2024	16:03	LB133669
	Thallium	5420	5000	108	90 - 110	P	11/27/2024	16:03	LB133669
	Tin	5360	5000	107	90 - 110	P	11/27/2024	16:03	LB133669
	Titanium	5370	5000	107	90 - 110	P	11/27/2024	16:03	LB133669
	Vanadium	2700	2500	108	90 - 110	P	11/27/2024	16:03	LB133669
	Zinc	2630	2500	105	90 - 110	P	11/27/2024	16:03	LB133669
CCV04	Aluminum	10600	10000	106	90 - 110	P	11/27/2024	16:39	LB133669
	Antimony	5250	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Arsenic	5240	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Barium	10700	10000	107	90 - 110	P	11/27/2024	16:39	LB133669
	Beryllium	263	250	105	90 - 110	P	11/27/2024	16:39	LB133669
	Boron	5250	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Cadmium	2610	2500	104	90 - 110	P	11/27/2024	16:39	LB133669
	Calcium	26300	25000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Chromium	1050	1000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Cobalt	2610	2500	104	90 - 110	P	11/27/2024	16:39	LB133669
	Copper	1310	1250	105	90 - 110	P	11/27/2024	16:39	LB133669
	Iron	5210	5000	104	90 - 110	P	11/27/2024	16:39	LB133669
	Lead	5230	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Lithium	5220	5000	104	90 - 110	P	11/27/2024	16:39	LB133669
	Magnesium	26200	25000	105	90 - 110	P	11/27/2024	16:39	LB133669

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	Manganese	2630	2500	105	90 - 110	P	11/27/2024	16:39	LB133669
	Nickel	2610	2500	104	90 - 110	P	11/27/2024	16:39	LB133669
	Potassium	26000	25000	104	90 - 110	P	11/27/2024	16:39	LB133669
	Selenium	5260	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Silicon	5170	5000	103	90 - 110	P	11/27/2024	16:39	LB133669
	Silver	1300	1250	104	90 - 110	P	11/27/2024	16:39	LB133669
	Sodium	26000	25000	104	90 - 110	P	11/27/2024	16:39	LB133669
	Strontium	5440	5000	109	90 - 110	P	11/27/2024	16:39	LB133669
	Sulfur	5160	5000	103	90 - 110	P	11/27/2024	16:39	LB133669
	Thallium	5290	5000	106	90 - 110	P	11/27/2024	16:39	LB133669
	Tin	5260	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Titanium	5300	5000	106	90 - 110	P	11/27/2024	16:39	LB133669
	Vanadium	2670	2500	107	90 - 110	P	11/27/2024	16:39	LB133669
	Zinc	2640	2500	106	90 - 110	P	11/27/2024	16:39	LB133669
CCV05	Aluminum	10600	10000	106	90 - 110	P	11/27/2024	17:34	LB133669
	Antimony	5170	5000	103	90 - 110	P	11/27/2024	17:34	LB133669
	Arsenic	5120	5000	102	90 - 110	P	11/27/2024	17:34	LB133669
	Barium	10600	10000	106	90 - 110	P	11/27/2024	17:34	LB133669
	Beryllium	264	250	106	90 - 110	P	11/27/2024	17:34	LB133669
	Boron	5280	5000	106	90 - 110	P	11/27/2024	17:34	LB133669
	Cadmium	2570	2500	103	90 - 110	P	11/27/2024	17:34	LB133669
	Calcium	26200	25000	105	90 - 110	P	11/27/2024	17:34	LB133669
	Chromium	1030	1000	104	90 - 110	P	11/27/2024	17:34	LB133669
	Cobalt	2570	2500	103	90 - 110	P	11/27/2024	17:34	LB133669
	Copper	1290	1250	103	90 - 110	P	11/27/2024	17:34	LB133669
	Iron	5180	5000	104	90 - 110	P	11/27/2024	17:34	LB133669
	Lead	5150	5000	103	90 - 110	P	11/27/2024	17:34	LB133669
	Lithium	5220	5000	104	90 - 110	P	11/27/2024	17:34	LB133669
	Magnesium	26000	25000	104	90 - 110	P	11/27/2024	17:34	LB133669
	Manganese	2640	2500	106	90 - 110	P	11/27/2024	17:34	LB133669
	Nickel	2570	2500	103	90 - 110	P	11/27/2024	17:34	LB133669
	Potassium	25500	25000	102	90 - 110	P	11/27/2024	17:34	LB133669
	Selenium	5130	5000	103	90 - 110	P	11/27/2024	17:34	LB133669
	Silicon	5000	5000	100	90 - 110	P	11/27/2024	17:34	LB133669

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** P4495

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

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
CCV05	Silver	1280	1250	102	90 - 110	P	11/27/2024	17:34	LB133669
	Sodium	26300	25000	105	90 - 110	P	11/27/2024	17:34	LB133669
	Strontium	5400	5000	108	90 - 110	P	11/27/2024	17:34	LB133669
	Sulfur	5070	5000	101	90 - 110	P	11/27/2024	17:34	LB133669
	Thallium	5060	5000	101	90 - 110	P	11/27/2024	17:34	LB133669
	Tin	5150	5000	103	90 - 110	P	11/27/2024	17:34	LB133669
	Titanium	5280	5000	106	90 - 110	P	11/27/2024	17:34	LB133669
	Vanadium	2640	2500	106	90 - 110	P	11/27/2024	17:34	LB133669
	Zinc	2560	2500	103	90 - 110	P	11/27/2024	17:34	LB133669

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	2510	2500	100	90 - 110	P	12/04/2024	13:22	LB133739
	Antimony	984	1000	98	90 - 110	P	12/04/2024	13:22	LB133739
	Arsenic	977	1000	98	90 - 110	P	12/04/2024	13:22	LB133739
	Barium	508	520	98	90 - 110	P	12/04/2024	13:22	LB133739
	Beryllium	498	510	98	90 - 110	P	12/04/2024	13:22	LB133739
	Cadmium	497	510	98	90 - 110	P	12/04/2024	13:22	LB133739
	Calcium	9770	10000	98	90 - 110	P	12/04/2024	13:22	LB133739
	Chromium	511	520	98	90 - 110	P	12/04/2024	13:22	LB133739
	Cobalt	498	520	96	90 - 110	P	12/04/2024	13:22	LB133739
	Copper	509	510	100	90 - 110	P	12/04/2024	13:22	LB133739
	Iron	9610	10000	96	90 - 110	P	12/04/2024	13:22	LB133739
	Lead	983	1000	98	90 - 110	P	12/04/2024	13:22	LB133739
	Magnesium	5740	6000	96	90 - 110	P	12/04/2024	13:22	LB133739
	Manganese	505	520	97	90 - 110	P	12/04/2024	13:22	LB133739
	Nickel	500	530	94	90 - 110	P	12/04/2024	13:22	LB133739
	Potassium	9630	9900	97	90 - 110	P	12/04/2024	13:22	LB133739
	Selenium	1010	1000	100	90 - 110	P	12/04/2024	13:22	LB133739
	Silver	246	250	98	90 - 110	P	12/04/2024	13:22	LB133739
	Sodium	9770	10000	98	90 - 110	P	12/04/2024	13:22	LB133739
	Thallium	1020	1000	102	90 - 110	P	12/04/2024	13:22	LB133739
	Vanadium	499	500	100	90 - 110	P	12/04/2024	13:22	LB133739
	Zinc	1020	1000	102	90 - 110	P	12/04/2024	13:22	LB133739

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	109	100	109	80 - 120	P	12/04/2024	13:34	LB133739
	Antimony	48.7	50.0	98	80 - 120	P	12/04/2024	13:34	LB133739
	Arsenic	18.8	20.0	94	80 - 120	P	12/04/2024	13:34	LB133739
	Barium	98.9	100	99	80 - 120	P	12/04/2024	13:34	LB133739
	Beryllium	6.05	6.0	101	80 - 120	P	12/04/2024	13:34	LB133739
	Cadmium	5.97	6.0	100	80 - 120	P	12/04/2024	13:34	LB133739
	Calcium	2010	2000	101	80 - 120	P	12/04/2024	13:34	LB133739
	Chromium	10.4	10.0	104	80 - 120	P	12/04/2024	13:34	LB133739
	Cobalt	29.4	30.0	98	80 - 120	P	12/04/2024	13:34	LB133739
	Copper	22.2	20.0	111	80 - 120	P	12/04/2024	13:34	LB133739
	Iron	99.8	100	100	80 - 120	P	12/04/2024	13:34	LB133739
	Lead	11.0	12.0	92	80 - 120	P	12/04/2024	13:34	LB133739
	Magnesium	2130	2000	106	80 - 120	P	12/04/2024	13:34	LB133739
	Manganese	21.1	20.0	105	80 - 120	P	12/04/2024	13:34	LB133739
	Nickel	39.4	40.0	98	80 - 120	P	12/04/2024	13:34	LB133739
	Potassium	1940	2000	97	80 - 120	P	12/04/2024	13:34	LB133739
	Selenium	21.4	20.0	107	80 - 120	P	12/04/2024	13:34	LB133739
	Silver	10.8	10.0	108	80 - 120	P	12/04/2024	13:34	LB133739
	Sodium	2040	2000	102	80 - 120	P	12/04/2024	13:34	LB133739
	Thallium	43.5	40.0	109	80 - 120	P	12/04/2024	13:34	LB133739
	Vanadium	40.7	40.0	102	80 - 120	P	12/04/2024	13:34	LB133739
	Zinc	43.2	40.0	108	80 - 120	P	12/04/2024	13:34	LB133739

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	9930	10000	99	90 - 110	P	12/04/2024	14:20	LB133739
	Antimony	5140	5000	103	90 - 110	P	12/04/2024	14:20	LB133739
	Arsenic	5050	5000	101	90 - 110	P	12/04/2024	14:20	LB133739
	Barium	9600	10000	96	90 - 110	P	12/04/2024	14:20	LB133739
	Beryllium	229	250	92	90 - 110	P	12/04/2024	14:20	LB133739
	Cadmium	2350	2500	94	90 - 110	P	12/04/2024	14:20	LB133739
	Calcium	23000	25000	92	90 - 110	P	12/04/2024	14:20	LB133739
	Chromium	971	1000	97	90 - 110	P	12/04/2024	14:20	LB133739
	Cobalt	2360	2500	94	90 - 110	P	12/04/2024	14:20	LB133739
	Copper	1270	1250	102	90 - 110	P	12/04/2024	14:20	LB133739
	Iron	4790	5000	96	90 - 110	P	12/04/2024	14:20	LB133739
	Lead	4780	5000	96	90 - 110	P	12/04/2024	14:20	LB133739
	Magnesium	23600	25000	94	90 - 110	P	12/04/2024	14:20	LB133739
	Manganese	2290	2500	92	90 - 110	P	12/04/2024	14:20	LB133739
	Nickel	2370	2500	95	90 - 110	P	12/04/2024	14:20	LB133739
	Potassium	25600	25000	102	90 - 110	P	12/04/2024	14:20	LB133739
	Selenium	5090	5000	102	90 - 110	P	12/04/2024	14:20	LB133739
	Silver	1210	1250	97	90 - 110	P	12/04/2024	14:20	LB133739
	Sodium	26900	25000	108	90 - 110	P	12/04/2024	14:20	LB133739
	Thallium	4870	5000	97	90 - 110	P	12/04/2024	14:20	LB133739
	Vanadium	2390	2500	96	90 - 110	P	12/04/2024	14:20	LB133739
	Zinc	2520	2500	101	90 - 110	P	12/04/2024	14:20	LB133739
CCV02	Aluminum	9920	10000	99	90 - 110	P	12/04/2024	14:37	LB133739
	Antimony	5170	5000	103	90 - 110	P	12/04/2024	14:37	LB133739
	Arsenic	5090	5000	102	90 - 110	P	12/04/2024	14:37	LB133739
	Barium	9840	10000	98	90 - 110	P	12/04/2024	14:37	LB133739
	Beryllium	229	250	92	90 - 110	P	12/04/2024	14:37	LB133739
	Cadmium	2370	2500	95	90 - 110	P	12/04/2024	14:37	LB133739
	Calcium	23200	25000	93	90 - 110	P	12/04/2024	14:37	LB133739
	Chromium	969	1000	97	90 - 110	P	12/04/2024	14:37	LB133739
	Cobalt	2380	2500	95	90 - 110	P	12/04/2024	14:37	LB133739
	Copper	1280	1250	103	90 - 110	P	12/04/2024	14:37	LB133739
	Iron	4860	5000	97	90 - 110	P	12/04/2024	14:37	LB133739
	Lead	4820	5000	96	90 - 110	P	12/04/2024	14:37	LB133739

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** P4495

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

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	Magnesium	23800	25000	95	90 - 110	P	12/04/2024	14:37	LB133739
	Manganese	2320	2500	93	90 - 110	P	12/04/2024	14:37	LB133739
	Nickel	2390	2500	96	90 - 110	P	12/04/2024	14:37	LB133739
	Potassium	26000	25000	104	90 - 110	P	12/04/2024	14:37	LB133739
	Selenium	5150	5000	103	90 - 110	P	12/04/2024	14:37	LB133739
	Silver	1220	1250	97	90 - 110	P	12/04/2024	14:37	LB133739
	Sodium	27000	25000	108	90 - 110	P	12/04/2024	14:37	LB133739
	Thallium	4960	5000	99	90 - 110	P	12/04/2024	14:37	LB133739
	Vanadium	2410	2500	96	90 - 110	P	12/04/2024	14:37	LB133739
	Zinc	2550	2500	102	90 - 110	P	12/04/2024	14:37	LB133739

Metals

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CRDL STANDARD FOR AA & ICP

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.23	0.2	114	40 - 160	CV	10/31/2024	10:30	LB133227
CRI01	Aluminum	111	100	111	40 - 160	P	11/27/2024	12:47	LB133669
	Antimony	49.4	50.0	99	40 - 160	P	11/27/2024	12:47	LB133669
	Arsenic	22.6	20.0	113	40 - 160	P	11/27/2024	12:47	LB133669
	Barium	105	100	105	40 - 160	P	11/27/2024	12:47	LB133669
	Beryllium	6.16	6.0	103	40 - 160	P	11/27/2024	12:47	LB133669
	Boron	108	100	108	40 - 160	P	11/27/2024	12:47	LB133669
	Cadmium	5.94	6.0	99	40 - 160	P	11/27/2024	12:47	LB133669
	Calcium	2120	2000	106	40 - 160	P	11/27/2024	12:47	LB133669
	Chromium	9.62	10.0	96	40 - 160	P	11/27/2024	12:47	LB133669
	Cobalt	29.6	30.0	98	40 - 160	P	11/27/2024	12:47	LB133669
	Copper	22.2	20.0	111	40 - 160	P	11/27/2024	12:47	LB133669
	Iron	98.1	100	98	40 - 160	P	11/27/2024	12:47	LB133669
	Lead	11.4	12.0	95	40 - 160	P	11/27/2024	12:47	LB133669
	Lithium	20.2	20.0	101	40 - 160	P	11/27/2024	12:47	LB133669
	Magnesium	2200	2000	110	40 - 160	P	11/27/2024	12:47	LB133669
	Manganese	21.6	20.0	108	40 - 160	P	11/27/2024	12:47	LB133669
	Nickel	39.4	40.0	98	40 - 160	P	11/27/2024	12:47	LB133669
	Potassium	1920	2000	96	40 - 160	P	11/27/2024	12:47	LB133669
	Selenium	20.3	20.0	102	40 - 160	P	11/27/2024	12:47	LB133669
	Silicon	341	400	85	40 - 160	P	11/27/2024	12:47	LB133669
	Silver	10.0	10.0	100	40 - 160	P	11/27/2024	12:47	LB133669
	Sodium	1740	2000	87	40 - 160	P	11/27/2024	12:47	LB133669
	Strontium	22.0	20.0	110	40 - 160	P	11/27/2024	12:47	LB133669
	Sulfur	17.2	20.0	86	40 - 160	P	11/27/2024	12:47	LB133669
	Thallium	41.9	40.0	105	40 - 160	P	11/27/2024	12:47	LB133669
	Tin	38.2	40.0	96	40 - 160	P	11/27/2024	12:47	LB133669
	Titanium	42.7	40.0	107	40 - 160	P	11/27/2024	12:47	LB133669
	Vanadium	41.9	40.0	105	40 - 160	P	11/27/2024	12:47	LB133669
	Zinc	44.2	40.0	110	40 - 160	P	11/27/2024	12:47	LB133669
CRI01	Aluminum	107	100	107	40 - 160	P	12/04/2024	13:52	LB133739
	Antimony	49.5	50.0	99	40 - 160	P	12/04/2024	13:52	LB133739
	Arsenic	20.4	20.0	102	40 - 160	P	12/04/2024	13:52	LB133739
	Barium	96.1	100	96	40 - 160	P	12/04/2024	13:52	LB133739
	Beryllium	6.11	6.0	102	40 - 160	P	12/04/2024	13:52	LB133739

Metals

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CRDL STANDARD FOR AA & ICP

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Cadmium	6.04	6.0	101	40 - 160	P	12/04/2024	13:52	LB133739
	Calcium	2040	2000	102	40 - 160	P	12/04/2024	13:52	LB133739
	Chromium	10.6	10.0	106	40 - 160	P	12/04/2024	13:52	LB133739
	Cobalt	29.9	30.0	100	40 - 160	P	12/04/2024	13:52	LB133739
	Copper	22.1	20.0	110	40 - 160	P	12/04/2024	13:52	LB133739
	Iron	99.7	100	100	40 - 160	P	12/04/2024	13:52	LB133739
	Lead	11.2	12.0	94	40 - 160	P	12/04/2024	13:52	LB133739
	Magnesium	2160	2000	108	40 - 160	P	12/04/2024	13:52	LB133739
	Manganese	20.7	20.0	104	40 - 160	P	12/04/2024	13:52	LB133739
	Nickel	40.0	40.0	100	40 - 160	P	12/04/2024	13:52	LB133739
	Potassium	1920	2000	96	40 - 160	P	12/04/2024	13:52	LB133739
	Selenium	20.6	20.0	103	40 - 160	P	12/04/2024	13:52	LB133739
	Silver	10.6	10.0	106	40 - 160	P	12/04/2024	13:52	LB133739
	Sodium	2040	2000	102	40 - 160	P	12/04/2024	13:52	LB133739
	Thallium	42.4	40.0	106	40 - 160	P	12/04/2024	13:52	LB133739
	Vanadium	41.9	40.0	105	40 - 160	P	12/04/2024	13:52	LB133739
	Zinc	43.5	40.0	109	40 - 160	P	12/04/2024	13:52	LB133739



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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

Chemtech Consulting Group

SDG No.:

P4495

Contract:

CHEM02

Lab Code:

CHEM

Case No.:

P4495

SAS No.:

P4495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB61	Mercury	0.20	+/-0.20	U	0.20	CV	10/31/2024	10:23	LB133227

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Mercury	0.20	+/-0.20	U	0.20	CV	10/31/2024	10:27	LB133227
CCB05	Mercury	0.20	+/-0.20	U	0.20	CV	10/31/2024	11:01	LB133227
CCB06	Mercury	0.20	+/-0.20	U	0.20	CV	10/31/2024	11:31	LB133227
CCB07	Mercury	0.20	+/-0.20	U	0.20	CV	10/31/2024	12:05	LB133227

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	11/27/2024	12:43	LB133669
	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	12:43	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	12:43	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	12:43	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	12:43	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	12:43	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	12:43	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	12:43	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	12:43	LB133669
	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	12:43	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	12:43	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	12:43	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	12:43	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	12:43	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	12:43	LB133669
	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	12:43	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group		SDG No.: P4495							
Contract: CHEM02	Lab Code: CHEM	Case No.: P4495	SAS No.: P4495						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	11/27/2024	14:48	LB133669
	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	14:48	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	14:48	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	14:48	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	14:48	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	14:48	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	14:48	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	14:48	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	14:48	LB133669
	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	14:48	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	14:48	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	14:48	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	14:48	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	14:48	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	14:48	LB133669
	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	14:48	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
CCB02	Aluminum	100	+/-100	U	100	P	11/27/2024	15:54	LB133669
	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	15:54	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	15:54	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	15:54	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	15:54	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	15:54	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	15:54	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	15:54	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	15:54	LB133669

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group		SDG No.: P4495							
Contract: CHEM02	Lab Code: CHEM	Case No.: P4495	SAS No.: P4495						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	15:54	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	15:54	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	15:54	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	15:54	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	15:54	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	15:54	LB133669
	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	15:54	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
CCB03	Aluminum	100	+/-100	U	100	P	11/27/2024	16:07	LB133669
	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	16:07	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	16:07	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	16:07	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	16:07	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	16:07	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	16:07	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	16:07	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	16:07	LB133669
	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	16:07	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	16:07	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	16:07	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	16:07	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	16:07	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	16:07	LB133669

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group		SDG No.: P4495							
Contract: CHEM02	Lab Code: CHEM	Case No.: P4495	SAS No.: P4495						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB03	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	16:07	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
CCB04	Aluminum	100	+/-100	U	100	P	11/27/2024	16:43	LB133669
	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	16:43	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	16:43	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	16:43	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	16:43	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	16:43	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	16:43	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	16:43	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	16:43	LB133669
	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	16:43	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	16:43	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	16:43	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	16:43	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	16:43	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	16:43	LB133669
	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	16:43	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
CCB05	Aluminum	100	+/-100	U	100	P	11/27/2024	17:46	LB133669

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group		SDG No.: P4495							
Contract: CHEM02	Lab Code: CHEM	Case No.: P4495	SAS No.: P4495						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB05	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	17:46	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	17:46	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	17:46	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	17:46	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	17:46	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	17:46	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	17:46	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	17:46	LB133669
	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	17:46	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	17:46	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	17:46	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	17:46	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	17:46	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	17:46	LB133669
	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	17:46	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	12/04/2024	13:43	LB133739
	Antimony	50.0	+/-50.0	U	50.0	P	12/04/2024	13:43	LB133739
	Arsenic	20.0	+/-20.0	U	20.0	P	12/04/2024	13:43	LB133739
	Barium	100	+/-100	U	100	P	12/04/2024	13:43	LB133739
	Beryllium	6.00	+/-6.00	U	6.00	P	12/04/2024	13:43	LB133739
	Cadmium	6.00	+/-6.00	U	6.00	P	12/04/2024	13:43	LB133739
	Calcium	2000	+/-2000	U	2000	P	12/04/2024	13:43	LB133739
	Chromium	10.0	+/-10.0	U	10.0	P	12/04/2024	13:43	LB133739
	Cobalt	30.0	+/-30.0	U	30.0	P	12/04/2024	13:43	LB133739
	Copper	20.0	+/-20.0	U	20.0	P	12/04/2024	13:43	LB133739
	Iron	100	+/-100	U	100	P	12/04/2024	13:43	LB133739
	Lead	12.0	+/-12.0	U	12.0	P	12/04/2024	13:43	LB133739
	Magnesium	2000	+/-2000	U	2000	P	12/04/2024	13:43	LB133739
	Manganese	20.0	+/-20.0	U	20.0	P	12/04/2024	13:43	LB133739
	Nickel	40.0	+/-40.0	U	40.0	P	12/04/2024	13:43	LB133739
	Potassium	2000	+/-2000	U	2000	P	12/04/2024	13:43	LB133739
	Selenium	20.0	+/-20.0	U	20.0	P	12/04/2024	13:43	LB133739
	Silver	10.0	+/-10.0	U	10.0	P	12/04/2024	13:43	LB133739
	Sodium	2000	+/-2000	U	2000	P	12/04/2024	13:43	LB133739
	Thallium	40.0	+/-40.0	U	40.0	P	12/04/2024	13:43	LB133739
	Vanadium	40.0	+/-40.0	U	40.0	P	12/04/2024	13:43	LB133739
	Zinc	40.0	+/-40.0	U	40.0	P	12/04/2024	13:43	LB133739

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group		SDG No.: P4495							
Contract: CHEM02	Lab Code: CHEM	Case No.: P4495	SAS No.: P4495						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	12/04/2024	14:29	LB133739
	Antimony	50.0	+/-50.0	U	50.0	P	12/04/2024	14:29	LB133739
	Arsenic	20.0	+/-20.0	U	20.0	P	12/04/2024	14:29	LB133739
	Barium	100	+/-100	U	100	P	12/04/2024	14:29	LB133739
	Beryllium	6.00	+/-6.00	U	6.00	P	12/04/2024	14:29	LB133739
	Cadmium	6.00	+/-6.00	U	6.00	P	12/04/2024	14:29	LB133739
	Calcium	2000	+/-2000	U	2000	P	12/04/2024	14:29	LB133739
	Chromium	10.0	+/-10.0	U	10.0	P	12/04/2024	14:29	LB133739
	Cobalt	30.0	+/-30.0	U	30.0	P	12/04/2024	14:29	LB133739
	Copper	20.0	+/-20.0	U	20.0	P	12/04/2024	14:29	LB133739
	Iron	100	+/-100	U	100	P	12/04/2024	14:29	LB133739
	Lead	12.0	+/-12.0	U	12.0	P	12/04/2024	14:29	LB133739
	Magnesium	2000	+/-2000	U	2000	P	12/04/2024	14:29	LB133739
	Manganese	20.0	+/-20.0	U	20.0	P	12/04/2024	14:29	LB133739
	Nickel	40.0	+/-40.0	U	40.0	P	12/04/2024	14:29	LB133739
	Potassium	2000	+/-2000	U	2000	P	12/04/2024	14:29	LB133739
	Selenium	20.0	+/-20.0	U	20.0	P	12/04/2024	14:29	LB133739
	Silver	10.0	+/-10.0	U	10.0	P	12/04/2024	14:29	LB133739
	Sodium	2000	+/-2000	U	2000	P	12/04/2024	14:29	LB133739
	Thallium	40.0	+/-40.0	U	40.0	P	12/04/2024	14:29	LB133739
	Vanadium	40.0	+/-40.0	U	40.0	P	12/04/2024	14:29	LB133739
	Zinc	40.0	+/-40.0	U	40.0	P	12/04/2024	14:29	LB133739
CCB02	Aluminum	100	+/-100	U	100	P	12/04/2024	14:41	LB133739
	Antimony	50.0	+/-50.0	U	50.0	P	12/04/2024	14:41	LB133739
	Arsenic	20.0	+/-20.0	U	20.0	P	12/04/2024	14:41	LB133739
	Barium	100	+/-100	U	100	P	12/04/2024	14:41	LB133739
	Beryllium	6.00	+/-6.00	U	6.00	P	12/04/2024	14:41	LB133739
	Cadmium	6.00	+/-6.00	U	6.00	P	12/04/2024	14:41	LB133739
	Calcium	2000	+/-2000	U	2000	P	12/04/2024	14:41	LB133739
	Chromium	10.0	+/-10.0	U	10.0	P	12/04/2024	14:41	LB133739
	Cobalt	30.0	+/-30.0	U	30.0	P	12/04/2024	14:41	LB133739
	Copper	20.0	+/-20.0	U	20.0	P	12/04/2024	14:41	LB133739
	Iron	100	+/-100	U	100	P	12/04/2024	14:41	LB133739
	Lead	12.0	+/-12.0	U	12.0	P	12/04/2024	14:41	LB133739
	Magnesium	2000	+/-2000	U	2000	P	12/04/2024	14:41	LB133739
	Manganese	20.0	+/-20.0	U	20.0	P	12/04/2024	14:41	LB133739
	Nickel	40.0	+/-40.0	U	40.0	P	12/04/2024	14:41	LB133739
	Potassium	2000	+/-2000	U	2000	P	12/04/2024	14:41	LB133739
	Selenium	20.0	+/-20.0	U	20.0	P	12/04/2024	14:41	LB133739

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	12/04/2024	14:41	LB133739
	Sodium	2000	+/-2000	U	2000	P	12/04/2024	14:41	LB133739
	Thallium	40.0	+/-40.0	U	40.0	P	12/04/2024	14:41	LB133739
	Vanadium	40.0	+/-40.0	U	40.0	P	12/04/2024	14:41	LB133739
	Zinc	40.0	+/-40.0	U	40.0	P	12/04/2024	14:41	LB133739

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Chemtech Consulting Group

SDG No.: P4495

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164552BL		SOLID		Batch Number:	PB164552		Prep Date:	10/30/2024	
	Mercury	0.013	<0.013	U	0.013	CV	10/31/2024	10:36	LB133227

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Chemtech Consulting Group

SDG No.: P4495

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165242BL	SOLID			Batch Number:	PB165242		Prep Date:	11/26/2024	
	Aluminum	5.00	<5.00	U	5.00	P	11/27/2024	15:11	LB133669
	Antimony	2.50	<2.50	U	2.50	P	11/27/2024	15:11	LB133669
	Arsenic	1.00	<1.00	U	1.00	P	11/27/2024	15:11	LB133669
	Barium	5.00	<5.00	U	5.00	P	11/27/2024	15:11	LB133669
	Beryllium	0.30	<0.30	U	0.30	P	11/27/2024	15:11	LB133669
	Boron	5.00	<5.00	U	5.00	P	11/27/2024	15:11	LB133669
	Cadmium	0.30	<0.30	U	0.30	P	11/27/2024	15:11	LB133669
	Calcium	100	<100	U	100	P	11/27/2024	15:11	LB133669
	Chromium	0.50	<0.50	U	0.50	P	11/27/2024	15:11	LB133669
	Cobalt	1.50	<1.50	U	1.50	P	11/27/2024	15:11	LB133669
	Copper	1.00	<1.00	U	1.00	P	11/27/2024	15:11	LB133669
	Iron	5.00	<5.00	U	5.00	P	11/27/2024	15:11	LB133669
	Lead	0.60	<0.60	U	0.60	P	11/27/2024	15:11	LB133669
	Magnesium	100	<100	U	100	P	11/27/2024	15:11	LB133669
	Manganese	1.00	<1.00	U	1.00	P	11/27/2024	15:11	LB133669
	Nickel	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Potassium	100	<100	U	100	P	11/27/2024	15:11	LB133669
	Selenium	1.00	<1.00	U	1.00	P	11/27/2024	15:11	LB133669
	Silicon	20.0	<20.0	U	20.0	P	11/27/2024	15:11	LB133669
	Silver	0.50	<0.50	U	0.50	P	11/27/2024	15:11	LB133669
	Sulfur	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Sodium	100	<100	U	100	P	11/27/2024	15:11	LB133669
	Strontium	10.0	<10.0	U	10.0	P	11/27/2024	15:11	LB133669
	Lithium	1.00	<1.00	U	1.00	P	11/27/2024	15:11	LB133669
	Thallium	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Tin	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Titanium	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Vanadium	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Zinc	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669

Metals
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INTERFERENCE CHECK SAMPLE

Client: Chemtech Consulting Group	SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM	Case No.: P4495 SAS No.: P4495
ICS Source: EPA	Instrument ID: P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	267000	255000	105	216000	294000	11/27/2024	13:25	LB133669
	Antimony	-3.00			-50	50	11/27/2024	13:25	LB133669
	Arsenic	5.12			-20	20	11/27/2024	13:25	LB133669
	Barium	4.09	6.0	68	-94	106	11/27/2024	13:25	LB133669
	Beryllium	1.38			-6	6	11/27/2024	13:25	LB133669
	Boron	31.1	1000	3	-100	100	11/27/2024	13:25	LB133669
	Cadmium	6.81	1.0	681	-5	7	11/27/2024	13:25	LB133669
	Calcium	249000	245000	102	208000	282000	11/27/2024	13:25	LB133669
	Chromium	58.0	52.0	112	42	62	11/27/2024	13:25	LB133669
	Cobalt	2.31			-30	30	11/27/2024	13:25	LB133669
	Copper	21.8	2.0	1090	-18	22	11/27/2024	13:25	LB133669
	Iron	102000	101000	101	85600	116500	11/27/2024	13:25	LB133669
	Lead	9.71			-12	12	11/27/2024	13:25	LB133669
	Magnesium	273000	255000	107	216000	294000	11/27/2024	13:25	LB133669
	Manganese	4.30	7.0	61	-13	27	11/27/2024	13:25	LB133669
	Nickel	2.60	2.0	130	-38	42	11/27/2024	13:25	LB133669
	Potassium	-57.5			0	0	11/27/2024	13:25	LB133669
	Selenium	-19.4			-20	20	11/27/2024	13:25	LB133669
	Silicon	17.3			0	0	11/27/2024	13:25	LB133669
	Silver	-7.66			-10	10	11/27/2024	13:25	LB133669
	Sulfur	-8.87			0	0	11/27/2024	13:25	LB133669
	Sodium	25.1			0	0	11/27/2024	13:25	LB133669
	Strontium	4.50			0	0	11/27/2024	13:25	LB133669
	Lithium	-13.0	1000	1	-20	20	11/27/2024	13:25	LB133669
	Thallium	12.7			-40	40	11/27/2024	13:25	LB133669
	Tin	-4.01	1000		-40	40	11/27/2024	13:25	LB133669
	Titanium	-0.71			0	0	11/27/2024	13:25	LB133669
	Vanadium	6.75			-40	40	11/27/2024	13:25	LB133669
	Zinc	7.62			-40	40	11/27/2024	13:25	LB133669
ICSAB01	Aluminum	270000	247000	109	209000	285000	11/27/2024	14:03	LB133669
	Antimony	620	618	100	525	711	11/27/2024	14:03	LB133669
	Arsenic	113	104	109	88.4	120	11/27/2024	14:03	LB133669
	Barium	538	537	100	437	637	11/27/2024	14:03	LB133669
	Beryllium	524	495	106	420	570	11/27/2024	14:03	LB133669
	Boron	989	1000	99	850	1150	11/27/2024	14:03	LB133669
	Cadmium	1020	972	105	826	1120	11/27/2024	14:03	LB133669
	Calcium	253000	235000	108	199000	271000	11/27/2024	14:03	LB133669
	Chromium	554	542	102	460	624	11/27/2024	14:03	LB133669
	Cobalt	509	476	107	404	548	11/27/2024	14:03	LB133669
	Copper	501	511	98	434	588	11/27/2024	14:03	LB133669
	Iron	99000	99300	100	84400	114500	11/27/2024	14:03	LB133669
	Lead	56.4	49.0	115	37	61	11/27/2024	14:03	LB133669

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Magnesium	276000	248000	111	210000	286000	11/27/2024	14:03	LB133669
	Manganese	514	507	101	430	584	11/27/2024	14:03	LB133669
	Nickel	1000	954	105	810	1100	11/27/2024	14:03	LB133669
	Potassium	-88.0			0	0	11/27/2024	14:03	LB133669
	Selenium	36.1	46.0	78	26	66	11/27/2024	14:03	LB133669
	Silicon	1120			0	0	11/27/2024	14:03	LB133669
	Silver	190	201	94	170	232	11/27/2024	14:03	LB133669
	Sulfur	976			0	0	11/27/2024	14:03	LB133669
	Sodium	-8.70			0	0	11/27/2024	14:03	LB133669
	Strontium	1010			0	0	11/27/2024	14:03	LB133669
	Lithium	966	1000	97	850	1150	11/27/2024	14:03	LB133669
	Thallium	104	108	96	68	148	11/27/2024	14:03	LB133669
	Tin	979	1000	98	850	1150	11/27/2024	14:03	LB133669
	Titanium	1000			0	0	11/27/2024	14:03	LB133669
	Vanadium	511	491	104	417	565	11/27/2024	14:03	LB133669
	Zinc	1080	952	113	809	1095	11/27/2024	14:03	LB133669
ICSA01	Aluminum	263000	255000	103	216000	294000	12/04/2024	13:57	LB133739
	Antimony	-1.94			-50	50	12/04/2024	13:57	LB133739
	Arsenic	1.57			-20	20	12/04/2024	13:57	LB133739
	Barium	-0.17	6.0	3	-94	106	12/04/2024	13:57	LB133739
	Beryllium	1.23			-6	6	12/04/2024	13:57	LB133739
	Cadmium	8.30	1.0	830	-5	7	12/04/2024	13:57	LB133739
	Calcium	244000	245000	100	208000	282000	12/04/2024	13:57	LB133739
	Chromium	56.0	52.0	108	42	62	12/04/2024	13:57	LB133739
	Cobalt	2.84			-30	30	12/04/2024	13:57	LB133739
	Copper	-8.89	2.0	444	-18	22	12/04/2024	13:57	LB133739
	Iron	97500	101000	96	85600	116500	12/04/2024	13:57	LB133739
	Lead	7.22			-12	12	12/04/2024	13:57	LB133739
	Magnesium	267000	255000	105	216000	294000	12/04/2024	13:57	LB133739
	Manganese	5.09	7.0	73	-13	27	12/04/2024	13:57	LB133739
	Nickel	2.40	2.0	120	-38	42	12/04/2024	13:57	LB133739
	Potassium	47.8			0	0	12/04/2024	13:57	LB133739
	Selenium	-10.7			-20	20	12/04/2024	13:57	LB133739
	Silver	-5.06			-10	10	12/04/2024	13:57	LB133739
	Sodium	100			0	0	12/04/2024	13:57	LB133739
	Thallium	11.5			-40	40	12/04/2024	13:57	LB133739
	Vanadium	6.74			-40	40	12/04/2024	13:57	LB133739
	Zinc	8.15			-40	40	12/04/2024	13:57	LB133739
ICSAB01	Aluminum	261000	247000	106	209000	285000	12/04/2024	14:15	LB133739
	Antimony	629	618	102	525	711	12/04/2024	14:15	LB133739
	Arsenic	110	104	106	88.4	120	12/04/2024	14:15	LB133739
	Barium	500	537	93	437	637	12/04/2024	14:15	LB133739

Metals
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INTERFERENCE CHECK SAMPLE

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Beryllium	505	495	102	420	570	12/04/2024	14:15	LB133739
	Cadmium	1010	972	104	826	1120	12/04/2024	14:15	LB133739
	Calcium	239000	235000	102	199000	271000	12/04/2024	14:15	LB133739
	Chromium	561	542	104	460	624	12/04/2024	14:15	LB133739
	Cobalt	503	476	106	404	548	12/04/2024	14:15	LB133739
	Copper	474	511	93	434	588	12/04/2024	14:15	LB133739
	Iron	96000	99300	97	84400	114500	12/04/2024	14:15	LB133739
	Lead	52.7	49.0	108	37	61	12/04/2024	14:15	LB133739
	Magnesium	264000	248000	106	210000	286000	12/04/2024	14:15	LB133739
	Manganese	482	507	95	430	584	12/04/2024	14:15	LB133739
	Nickel	987	954	104	810	1100	12/04/2024	14:15	LB133739
	Potassium	-30.8			0	0	12/04/2024	14:15	LB133739
	Selenium	34.2	46.0	74	26	66	12/04/2024	14:15	LB133739
	Silver	193	201	96	170	232	12/04/2024	14:15	LB133739
	Sodium	114			0	0	12/04/2024	14:15	LB133739
	Thallium	94.7	108	88	68	148	12/04/2024	14:15	LB133739
	Vanadium	496	491	101	417	565	12/04/2024	14:15	LB133739
	Zinc	1100	952	116	809	1095	12/04/2024	14:15	LB133739



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Chemtech Consulting Group	level: low	sdg no.: P4495
contract: CHEM02	lab code: CHEM	case no.: P4495 sas no.: P4495
matrix: Solid	sample id: P4618-01	client id: HR-01-102924MS
Percent Solids for Sample: 95.4	Spiked ID: P4618-01MS	Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.25		0.030		0.25	89		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Chemtech Consulting Group	level: low	sdg no.: P4495
contract: CHEM02	lab code: CHEM	case no.: P4495 sas no.: P4495
matrix: Solid	sample id: P4618-01	client id: HR-01-102924MSD
Percent Solids for Sample: 95.4	Spiked ID: P4618-01MSD	Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.030		0.25	97		CV

Metals
- 5b -

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

Matrix:

Level: LOW

Client ID:

Sample ID:

Spiked ID:

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
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A
B
C
D
E
F
G
H

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Chemtech Consulting Group</u>	Level:	<u>LOW</u>	SDG No.:	<u>P4495</u>
Contract:	<u>CHEM02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P4495</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>P4618-01</u>	Client ID:	<u>HR-01-102924DUP</u>
Percent Solids for Sample:	95.4	Duplicate ID	P4618-01DUP	Percent Solids for Spike Sample:	95.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.030		0.032		6		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Chemtech Consulting Group</u>	Level:	<u>LOW</u>	SDG No.:	<u>P4495</u>
Contract:	<u>CHEM02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P4495</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>P4618-01MS</u>	Client ID:	<u>HR-01-102924MSD</u>
Percent Solids for Sample:	95.4	Duplicate ID	P4618-01MSD	Percent Solids for Spike Sample:	95.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.25		0.27		7		CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164552BS Mercury	mg/Kg	0.25	0.23		92	80 - 120	CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165242BS							
Aluminum	mg/Kg	100	95.4		95	80 - 120	P
Antimony	mg/Kg	40.0	36.3		91	80 - 120	P
Arsenic	mg/Kg	40.0	36.7		92	80 - 120	P
Barium	mg/Kg	10.0	9.77		98	80 - 120	P
Beryllium	mg/Kg	10.0	9.97		100	80 - 120	P
Boron	mg/Kg	15.0	14.7		98	80 - 120	P
Cadmium	mg/Kg	10.0	9.25		92	80 - 120	P
Calcium	mg/Kg	50.0	51.7	J	103	80 - 120	P
Chromium	mg/Kg	20.0	19.2		96	80 - 120	P
Cobalt	mg/Kg	10.0	9.32		93	80 - 120	P
Copper	mg/Kg	15.0	14.5		97	80 - 120	P
Iron	mg/Kg	150	139		93	80 - 120	P
Lead	mg/Kg	50.0	46.4		93	80 - 120	P
Magnesium	mg/Kg	100	95.9	J	96	80 - 120	P
Manganese	mg/Kg	10.0	10.0		100	80 - 120	P
Nickel	mg/Kg	25.0	23.4		94	80 - 120	P
Potassium	mg/Kg	500	443		89	80 - 120	P
Selenium	mg/Kg	100	92.1		92	80 - 120	P
Silicon	mg/Kg	46.7	38.2		82	80 - 120	P
Silver	mg/Kg	3.8	3.57		94	80 - 120	P
Sulfur	mg/Kg	500	427		85	80 - 120	P
Sodium	mg/Kg	150	123		82	80 - 120	P
Strontium	mg/Kg	10.0	10.1		101	80 - 120	P
Lithium	mg/Kg	10.0	9.89		99	80 - 120	P
Thallium	mg/Kg	100	98.2		98	80 - 120	P
Tin	mg/Kg	35.0	31.7		91	80 - 120	P
Titanium	mg/Kg	10.0	9.74		97	80 - 120	P
Vanadium	mg/Kg	15.0	14.8		99	80 - 120	P
Zinc	mg/Kg	10.0	9.87		99	80 - 120	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

HR-01-102924L

Lab Name: Chemtech Consulting Group **Contract:** CHEM02
Lab Code: CHEM **Lb No.:** lb133227 **Lab Sample ID :** P4618-01L **SDG No.:** P4495
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.030	0.071 U	100.0		CV



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>Chemtech Consulting Group</u>	SDG No.:	<u>P4495</u>
Contract:	<u>CHEM02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>P4495</u>
		SAS No.:	<u>P4495</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB164552							
P4495-10	PT-MET-SOIL	SAM	SOLID	10/30/2024	0.54	35.0	100.00
P4618-01DUP	HR-01-102924DUP	DUP	SOLID	10/30/2024	0.56	35.0	95.40
P4618-01MS	HR-01-102924MS	MS	SOLID	10/30/2024	0.58	35.0	95.40
P4618-01MSD	HR-01-102924MSD	MSD	SOLID	10/30/2024	0.59	35.0	95.40
PB164552BL	PB164552BL	MB	SOLID	10/30/2024	0.55	35.0	100.00
PB164552BS	PB164552BS	LCS	SOLID	10/30/2024	0.56	35.0	100.00

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>Chemtech Consulting Group</u>	SDG No.:	<u>P4495</u>
Contract:	<u>CHEM02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>P4495</u>
		SAS No.:	<u>P4495</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165242							
P4495-10	PT-MET-SOIL	SAM	SOLID	11/26/2024	2.25	100.0	100.00
PB165242BL	PB165242BL	MB	SOLID	11/26/2024	2.00	100.0	100.00
PB165242BS	PB165242BS	LCS	SOLID	11/26/2024	2.00	100.0	100.00

metals
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ANALYSIS RUN LOG

Client: Chemtech Consulting Group

Contract: CHEM02

Lab code: CHEM **Case no.:** P4495 **Sas no.:** P4495

Sdg no.: P4495

Instrument id number: **Method:**

Run number: LB133227

Start date: 10/31/2024 **End date:** 10/31/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1001	HG
S0.2	S0.2	1	1003	HG
S2.5	S2.5	1	1005	HG
S5	S5	1	1008	HG
S7.5	S7.5	1	1010	HG
S10	S10	1	1018	HG
ICV61	ICV61	1	1021	HG
ICB61	ICB61	1	1023	HG
CCV04	CCV04	1	1025	HG
CCB04	CCB04	1	1027	HG
CRA	CRA	1	1030	HG
PB164552BL	PB164552BL	1	1036	HG
PB164552BS	PB164552BS	1	1039	HG
CCV05	CCV05	1	1056	HG
CCB05	CCB05	1	1101	HG
P4618-01DUP	HR-01-102924DUP	1	1110	HG
P4618-01MS	HR-01-102924MS	1	1112	HG
P4618-01MSD	HR-01-102924MSD	1	1114	HG
CCV06	CCV06	1	1126	HG
CCB06	CCB06	1	1131	HG
P4618-01L	HR-01-102924L	5	1143	HG
P4495-10	PT-MET-SOIL	50	1200	HG
CCV07	CCV07	1	1202	HG
CCB07	CCB07	1	1205	HG

metals
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ANALYSIS RUN LOG

Client: Chemtech Consulting Group **Contract:** CHEM02

Lab code: CHEM **Case no.:** P4495 **Sas no.:** P4495 **Sdg no.:** P4495

Instrument id number: **Method:** **Run number:** LB133669

Start date: 11/27/2024 **End date:** 11/27/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1006	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
S1	S1	1	1011	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
S2	S2	1	1015	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
S3	S3	1	1019	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
S4	S4	1	1024	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
S5	S5	1	1028	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
ICV01	ICV01	1	1225	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
LLICV01	LLICV01	1	1238	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
ICB01	ICB01	1	1243	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CRI01	CRI01	1	1247	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
ICSA01	ICSA01	1	1325	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
ICSAB01	ICSAB01	1	1403	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCV01	CCV01	1	1408	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCB01	CCB01	1	1448	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
P4495-10	PT-MET-SOIL	1	1452	Ag,Al,As,B,Ba,Ca,Cd,Co,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti,V,Zn
P4495-10	PT-MET-SOIL	5	1507	Cr,Li,Ti
PB165242BL	PB165242BL	1	1511	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
PB165242BS	PB165242BS	1	1540	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCV02	CCV02	1	1550	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCB02	CCB02	1	1554	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCV03	CCV03	1	1603	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCB03	CCB03	1	1607	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCV04	CCV04	1	1639	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCB04	CCB04	1	1643	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCV05	CCV05	1	1734	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCB05	CCB05	1	1746	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti

metals
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ANALYSIS RUN LOG

Client: Chemtech Consulting Group **Contract:** CHEM02

Lab code: CHEM **Case no.:** P4495 **Sas no.:** P4495 **Sdg no.:** P4495

Instrument id number: **Method:** **Run number:** LB133739

Start date: 12/04/2024 **End date:** 12/04/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1257	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1301	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1305	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1310	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1314	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1318	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1343	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1352	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1357	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1420	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1429	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4495-10	PT-MET-SOIL	10	1433	Be
CCV02	CCV02	1	1437	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn