

**Report of Analysis**

Client:		Date Collected:	8/10/2021 12:00:00 AM
Project:	LB116158	Date Received:	9/1/2021 12:00:00 AM
Client Sample ID:	GB6J4	SDG No.:	LB116158
Lab Sample ID:	M3635-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	1.7	U	1	7.8	10	20	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-36-0	Antimony	0.05	U	1	0.17	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-38-2	Arsenic	0.18	J	1	0.08	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-39-3	Barium	0.16	U	1	0.82	5	10	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-41-7	Beryllium	0	U	1	0.17	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-43-9	Cadmium	0.01	U	1	0.097	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-70-2	Calcium	62	U	1	77	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-47-3	Chromium	0.07	U	1	0.3	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-48-4	Cobalt	0.01	U	1	0.13	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-50-8	Copper	6.6		1	0.59	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-89-6	Iron	4.3	U	1	10	100	200	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-92-1	Lead	0.25	J	1	0.19	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-95-4	Magnesium	8.7	U	1	15.7	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-96-5	Manganese	0.71	J	1	0.27	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-02-0	Nickel	0.26	J	1	0.25	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-09-7	Potassium	69	U	1	105	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7782-49-2	Selenium	0	U	1	2	2.5	5	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-22-4	Silver	0.01	U	1	0.15	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-23-5	Sodium	160000		1	87	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-28-0	Thallium	0	U	1	0.09	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-62-2	Vanadium	0.11	U	1	0.42	2.5	5	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-66-6	Zinc	19		1	0.34	1	5	ug/L	09/03/2021	09/03/2021	SFAM_MS

**Report of Analysis**

Client:		Date Collected:	8/19/2021 12:00:00 AM
Project:	LB116158	Date Received:	9/1/2021 12:00:00 AM
Client Sample ID:	GB6J5	SDG No.:	LB116158
Lab Sample ID:	M3635-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	0	U	1	7.8	10	20	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-36-0	Antimony	0.03	U	1	0.17	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-38-2	Arsenic	1.9		1	0.08	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-39-3	Barium	120		1	0.82	5	10	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-41-7	Beryllium	0	U	1	0.17	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-43-9	Cadmium	0.11	J	1	0.097	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-70-2	Calcium	59000		1	77	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-47-3	Chromium	0.05	U	1	0.3	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-48-4	Cobalt	0.03	U	1	0.13	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-50-8	Copper	38		1	0.59	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-89-6	Iron	22	J	1	10	100	200	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-92-1	Lead	1.7		1	0.19	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-95-4	Magnesium	36000		1	15.7	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-96-5	Manganese	0.53	J	1	0.27	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-02-0	Nickel	2.3		1	0.25	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-09-7	Potassium	2400		1	105	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7782-49-2	Selenium	0	U	1	2	2.5	5	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-22-4	Silver	0.03	U	1	0.15	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-23-5	Sodium	3500		1	87	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-28-0	Thallium	0	U	1	0.09	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-62-2	Vanadium	0.01	U	1	0.42	2.5	5	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-66-6	Zinc	120		1	0.34	1	5	ug/L	09/03/2021	09/03/2021	SFAM_MS

**Report of Analysis**

Client:		Date Collected:	8/10/2021 12:00:00 AM
Project:	LB116158	Date Received:	9/1/2021 12:00:00 AM
Client Sample ID:	GB6J6	SDG No.:	LB116158
Lab Sample ID:	M3635-09	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	0	U	1	7.8	10	20	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-36-0	Antimony	0.01	U	1	0.17	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-38-2	Arsenic	0	U	1	0.08	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-39-3	Barium	0.15	U	1	0.82	5	10	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-41-7	Beryllium	0	U	1	0.17	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-43-9	Cadmium	0	U	1	0.097	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-70-2	Calcium	21	U	1	77	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-47-3	Chromium	0	U	1	0.3	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-48-4	Cobalt	0	U	1	0.13	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-50-8	Copper	0.08	U	1	0.59	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-89-6	Iron	0.91	U	1	10	100	200	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-92-1	Lead	0.23	J	1	0.19	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-95-4	Magnesium	8.7	U	1	15.7	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-96-5	Manganese	0.16	U	1	0.27	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-02-0	Nickel	0.07	U	1	0.25	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-09-7	Potassium	19	U	1	105	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7782-49-2	Selenium	0.08	U	1	2	2.5	5	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-22-4	Silver	0	U	1	0.15	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-23-5	Sodium	220	J	1	87	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-28-0	Thallium	0	U	1	0.09	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-62-2	Vanadium	0.01	U	1	0.42	2.5	5	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-66-6	Zinc	0.17	U	1	0.34	1	5	ug/L	09/03/2021	09/03/2021	SFAM_MS

**Report of Analysis**

Client:		Date Collected:	8/31/2021 12:00:00 AM
Project:	LB116158	Date Received:	9/1/2021 12:00:00 AM
Client Sample ID:	GB6J7	SDG No.:	LB116158
Lab Sample ID:	M3635-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	630		1	7.8	10	20	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-36-0	Antimony	6.1		1	0.17	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-38-2	Arsenic	3.1		1	0.08	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-39-3	Barium	31		1	0.82	5	10	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-41-7	Beryllium	12		1	0.17	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-43-9	Cadmium	0	U	1	0.097	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-70-2	Calcium	430	J	1	77	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-47-3	Chromium	10		1	0.3	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-48-4	Cobalt	4.1		1	0.13	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-50-8	Copper	9.0		1	0.59	1	2	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-89-6	Iron	780		1	10	100	200	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-92-1	Lead	2.8		1	0.19	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-95-4	Magnesium	270	J	1	15.7	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7439-96-5	Manganese	2.8		1	0.27	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-02-0	Nickel	4.1		1	0.25	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-09-7	Potassium	510		1	105	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7782-49-2	Selenium	15		1	2	2.5	5	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-22-4	Silver	5.3		1	0.15	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-23-5	Sodium	470	J	1	87	250	500	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-28-0	Thallium	5.6		1	0.09	0.5	1	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-62-2	Vanadium	7.0		1	0.42	2.5	5	ug/L	09/03/2021	09/03/2021	SFAM_MS
7440-66-6	Zinc	10		1	0.34	1	5	ug/L	09/03/2021	09/03/2021	SFAM_MS



Report of Analysis

Client:		Date Collected:	8/31/2021 12:00:00 AM
Project:	LB116158	Date Received:	9/1/2021 12:00:00 AM
Client Sample ID:	GB6J7	SDG No.:	LB116158
Lab Sample ID:	M3635-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:				

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB116158 SDG No.: LB116158

Contract: _____ Lab Code: CHEM Case No.: LB116158 SAS No.: LB116158

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV031	Aluminum	520	500	104	1	90 - 110	P	09/03/2021	13:20	LB116158
	Antimony	210	200	104	2	90 - 110	P	09/03/2021	13:20	LB116158
	Arsenic	210	200	103	2	90 - 110	P	09/03/2021	13:20	LB116158
	Barium	110	100	108	1	90 - 110	P	09/03/2021	13:20	LB116158
	Beryllium	110	100	106	1	90 - 110	P	09/03/2021	13:20	LB116158
	Cadmium	110	100	110	2	90 - 110	P	09/03/2021	13:20	LB116158
	Calcium	1900	2000	93	2	90 - 110	P	09/03/2021	13:20	LB116158
	Chromium	100	100	102	1	90 - 110	P	09/03/2021	13:20	LB116158
	Cobalt	100	100	105	1	90 - 110	P	09/03/2021	13:20	LB116158
	Copper	100	100	103	0	90 - 110	P	09/03/2021	13:20	LB116158
	Iron	2100	2000	103	2	90 - 110	P	09/03/2021	13:20	LB116158
	Lead	210	200	106	3	90 - 110	P	09/03/2021	13:20	LB116158
	Magnesium	1200	1200	104	2	90 - 110	P	09/03/2021	13:20	LB116158
	Manganese	100	100	101	2	90 - 110	P	09/03/2021	13:20	LB116158
	Nickel	100	110	94	1	90 - 110	P	09/03/2021	13:20	LB116158
	Potassium	2000	2000	98	1	90 - 110	P	09/03/2021	13:20	LB116158
	Selenium	210	200	107	3	90 - 110	P	09/03/2021	13:20	LB116158
	Silver	53	50	106	2	90 - 110	P	09/03/2021	13:20	LB116158
	Sodium	2000	2000	102	1	90 - 110	P	09/03/2021	13:20	LB116158
	Thallium	200	210	97	3	90 - 110	P	09/03/2021	13:20	LB116158
	Vanadium	99	100	99	1	90 - 110	P	09/03/2021	13:20	LB116158
	Zinc	200	200	102	0	90 - 110	P	09/03/2021	13:20	LB116158

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB116158 SDG No.: LB116158

Contract: _____ Lab Code: CHEM Case No.: LB116158 SAS No.: LB116158

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV016	Aluminum	51000	50000	101	1	90 - 110	P	09/03/2021	13:37	LB116158
	Antimony	500	500	100	3	90 - 110	P	09/03/2021	13:37	LB116158
	Arsenic	510	500	103	0	90 - 110	P	09/03/2021	13:37	LB116158
	Barium	2600	2500	104	3	90 - 110	P	09/03/2021	13:37	LB116158
	Beryllium	520	500	103	1	90 - 110	P	09/03/2021	13:37	LB116158
	Cadmium	520	500	103	3	90 - 110	P	09/03/2021	13:37	LB116158
	Calcium	240000	250000	95	1	90 - 110	P	09/03/2021	13:37	LB116158
	Chromium	500	500	100	1	90 - 110	P	09/03/2021	13:37	LB116158
	Cobalt	500	500	99	1	90 - 110	P	09/03/2021	13:37	LB116158
	Copper	5000	5000	100	1	90 - 110	P	09/03/2021	13:37	LB116158
	Iron	130000	125000	101	1	90 - 110	P	09/03/2021	13:37	LB116158
	Lead	2600	2500	104	2	90 - 110	P	09/03/2021	13:37	LB116158
	Magnesium	260000	250000	102	2	90 - 110	P	09/03/2021	13:37	LB116158
	Manganese	5200	5000	105	2	90 - 110	P	09/03/2021	13:37	LB116158
	Nickel	470	500	93	1	90 - 110	P	09/03/2021	13:37	LB116158
	Potassium	120000	125000	98	2	90 - 110	P	09/03/2021	13:37	LB116158
	Selenium	500	500	100	1	90 - 110	P	09/03/2021	13:37	LB116158
	Silver	530	500	106	3	90 - 110	P	09/03/2021	13:37	LB116158
	Sodium	260000	250000	102	1	90 - 110	P	09/03/2021	13:37	LB116158
	Thallium	510	500	102	1	90 - 110	P	09/03/2021	13:37	LB116158
	Vanadium	510	500	101	1	90 - 110	P	09/03/2021	13:37	LB116158
	Zinc	4900	5000	97	1	90 - 110	P	09/03/2021	13:37	LB116158
CCV017	Aluminum	52000	50000	103	1	90 - 110	P	09/03/2021	14:34	LB116158
	Antimony	490	500	99	2	90 - 110	P	09/03/2021	14:34	LB116158
	Arsenic	490	500	99	1	90 - 110	P	09/03/2021	14:34	LB116158
	Barium	2500	2500	100	2	90 - 110	P	09/03/2021	14:34	LB116158
	Beryllium	520	500	103	2	90 - 110	P	09/03/2021	14:34	LB116158
	Cadmium	500	500	101	1	90 - 110	P	09/03/2021	14:34	LB116158
	Calcium	230000	250000	91	1	90 - 110	P	09/03/2021	14:34	LB116158
	Chromium	500	500	100	0	90 - 110	P	09/03/2021	14:34	LB116158
	Cobalt	490	500	98	1	90 - 110	P	09/03/2021	14:34	LB116158
	Copper	4900	5000	98	3	90 - 110	P	09/03/2021	14:34	LB116158
	Iron	120000	125000	100	3	90 - 110	P	09/03/2021	14:34	LB116158
	Lead	2600	2500	103	2	90 - 110	P	09/03/2021	14:34	LB116158



Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB116158 SDG No.: LB116158
Contract: _____ Lab Code: CHEM Case No.: LB116158 SAS No.: LB116158
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV017	Magnesium	250000	250000	102	0	90 - 110	P	09/03/2021	14:34	LB116158
	Manganese	5200	5000	104	1	90 - 110	P	09/03/2021	14:34	LB116158
	Nickel	460	500	93	1	90 - 110	P	09/03/2021	14:34	LB116158
	Potassium	120000	125000	100	2	90 - 110	P	09/03/2021	14:34	LB116158
	Selenium	490	500	97	1	90 - 110	P	09/03/2021	14:34	LB116158
	Silver	500	500	100	1	90 - 110	P	09/03/2021	14:34	LB116158
	Sodium	260000	250000	102	3	90 - 110	P	09/03/2021	14:34	LB116158
	Thallium	510	500	103	3	90 - 110	P	09/03/2021	14:34	LB116158
	Vanadium	500	500	100	1	90 - 110	P	09/03/2021	14:34	LB116158
	Zinc	4900	5000	97	2	90 - 110	P	09/03/2021	14:34	LB116158



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB116158 SDG No.: LB116158
Contract: Lab Code: CHEM Case No.: LB116158 SAS No.: LB116158

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB031	Aluminum	7.8	+/-20.0	U	20.0	P	09/03/2021	13:28	LB116158
	Antimony	0.03	+/-2.0	U	2.0	P	09/03/2021	13:28	LB116158
	Arsenic	0.08	+/-1.0	U	1.0	P	09/03/2021	13:28	LB116158
	Barium	0.82	+/-10.0	U	10.0	P	09/03/2021	13:28	LB116158
	Beryllium	0.17	+/-1.0	U	1.0	P	09/03/2021	13:28	LB116158
	Cadmium	0.03	+/-1.0	U	1.0	P	09/03/2021	13:28	LB116158
	Calcium	77.0	+/-500	U	500	P	09/03/2021	13:28	LB116158
	Chromium	0.3	+/-2.0	U	2.0	P	09/03/2021	13:28	LB116158
	Cobalt	0.13	+/-1.0	U	1.0	P	09/03/2021	13:28	LB116158
	Copper	0.59	+/-2.0	U	2.0	P	09/03/2021	13:28	LB116158
	Iron	10.0	+/-200	U	200	P	09/03/2021	13:28	LB116158
	Lead	0.1	+/-1.0	U	1.0	P	09/03/2021	13:28	LB116158
	Magnesium	15.7	+/-500	U	500	P	09/03/2021	13:28	LB116158
	Manganese	0.27	+/-1.0	U	1.0	P	09/03/2021	13:28	LB116158
	Nickel	0.25	+/-1.0	U	1.0	P	09/03/2021	13:28	LB116158
	Potassium	2.1	+/-500	U	500	P	09/03/2021	13:28	LB116158
	Selenium	2.0	+/-5.0	U	5.0	P	09/03/2021	13:28	LB116158
	Silver	0.15	+/-1.0	U	1.0	P	09/03/2021	13:28	LB116158
	Sodium	7.6	+/-500	U	500	P	09/03/2021	13:28	LB116158
	Thallium	0.09	+/-1.0	U	1.0	P	09/03/2021	13:28	LB116158
	Vanadium	0.42	+/-5.0	U	5.0	P	09/03/2021	13:28	LB116158
	Zinc	0.07	+/-5.0	U	5.0	P	09/03/2021	13:28	LB116158

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB116158 SDG No.: LB116158
 Contract: _____ Lab Code: CHEM Case No.: LB116158 SAS No.: LB116158

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB016	Aluminum	7.8	+/-20.0	U	20.0	P	09/03/2021	13:44	LB116158
	Antimony	0.07	+/-2.0	U	2.0	P	09/03/2021	13:44	LB116158
	Arsenic	0.08	+/-1.0	U	1.0	P	09/03/2021	13:44	LB116158
	Barium	0.82	+/-10.0	U	10.0	P	09/03/2021	13:44	LB116158
	Beryllium	0.17	+/-1.0	U	1.0	P	09/03/2021	13:44	LB116158
	Cadmium	0.02	+/-1.0	U	1.0	P	09/03/2021	13:44	LB116158
	Calcium	0.83	+/-500	U	500	P	09/03/2021	13:44	LB116158
	Chromium	0.3	+/-2.0	U	2.0	P	09/03/2021	13:44	LB116158
	Cobalt	0.13	+/-1.0	U	1.0	P	09/03/2021	13:44	LB116158
	Copper	0.05	+/-2.0	U	2.0	P	09/03/2021	13:44	LB116158
	Iron	10.0	+/-200	U	200	P	09/03/2021	13:44	LB116158
	Lead	0.09	+/-1.0	U	1.0	P	09/03/2021	13:44	LB116158
	Magnesium	15.7	+/-500	U	500	P	09/03/2021	13:44	LB116158
	Manganese	0.27	+/-1.0	U	1.0	P	09/03/2021	13:44	LB116158
	Nickel	0.25	+/-1.0	U	1.0	P	09/03/2021	13:44	LB116158
	Potassium	9.6	+/-500	U	500	P	09/03/2021	13:44	LB116158
	Selenium	2.0	+/-5.0	U	5.0	P	09/03/2021	13:44	LB116158
	Silver	0.01	+/-1.0	U	1.0	P	09/03/2021	13:44	LB116158
	Sodium	25	+/-500	U	500	P	09/03/2021	13:44	LB116158
	Thallium	0.01	+/-1.0	U	1.0	P	09/03/2021	13:44	LB116158
	Vanadium	0.42	+/-5.0	U	5.0	P	09/03/2021	13:44	LB116158
	Zinc	0.34	+/-5.0	U	5.0	P	09/03/2021	13:44	LB116158
CCB017	Aluminum	7.8	+/-20.0	U	20.0	P	09/03/2021	14:42	LB116158
	Antimony	0.05	+/-2.0	U	2.0	P	09/03/2021	14:42	LB116158
	Arsenic	0.08	+/-1.0	U	1.0	P	09/03/2021	14:42	LB116158
	Barium	0.82	+/-10.0	U	10.0	P	09/03/2021	14:42	LB116158
	Beryllium	0.17	+/-1.0	U	1.0	P	09/03/2021	14:42	LB116158
	Cadmium	0.097	+/-1.0	U	1.0	P	09/03/2021	14:42	LB116158
	Calcium	77.0	+/-500	U	500	P	09/03/2021	14:42	LB116158
	Chromium	0.3	+/-2.0	U	2.0	P	09/03/2021	14:42	LB116158
	Cobalt	0.13	+/-1.0	U	1.0	P	09/03/2021	14:42	LB116158
	Copper	0.03	+/-2.0	U	2.0	P	09/03/2021	14:42	LB116158
	Iron	10.0	+/-200	U	200	P	09/03/2021	14:42	LB116158
	Lead	0.12	+/-1.0	U	1.0	P	09/03/2021	14:42	LB116158
	Magnesium	15.7	+/-500	U	500	P	09/03/2021	14:42	LB116158
	Manganese	0.27	+/-1.0	U	1.0	P	09/03/2021	14:42	LB116158
	Nickel	0.25	+/-1.0	U	1.0	P	09/03/2021	14:42	LB116158
	Potassium	14	+/-500	U	500	P	09/03/2021	14:42	LB116158
	Selenium	2.0	+/-5.0	U	5.0	P	09/03/2021	14:42	LB116158
	Silver	0.01	+/-1.0	U	1.0	P	09/03/2021	14:42	LB116158



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB116158 **SDG No.:** LB116158
Contract: **Lab Code:** CHEM **Case No.:** LB116158 **SAS No.:** LB116158

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB017	Sodium	35	+/-500	U	500	P	09/03/2021	14:42	LB116158
	Thallium	0.01	+/-1.0	U	1.0	P	09/03/2021	14:42	LB116158
	Vanadium	0.42	+/-5.0	U	5.0	P	09/03/2021	14:42	LB116158
	Zinc	0.34	+/-5.0	U	5.0	P	09/03/2021	14:42	LB116158



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB116158

SDG No.: LB116158

Contract: Lab Code: CHEM

Case No.: LB116158

SAS No.: LB116158

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
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Metals
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PREPARATION BLANK SUMMARY

Client: LB116158

SDG No.: LB116158

Instrument: P8

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB138932BL	WATER			Batch Number:	PB138932		Prep Date:	09/03/2021	
	Aluminum	7.8	<20	U	20	P	09/03/2021	13:50	LB116158
	Antimony	0.01	<2	U	2	P	09/03/2021	13:50	LB116158
	Arsenic	0.08	<1	U	1	P	09/03/2021	13:50	LB116158
	Barium	0.82	<10	U	10	P	09/03/2021	13:50	LB116158
	Beryllium	0.02	<1	U	1	P	09/03/2021	13:50	LB116158
	Cadmium	0.02	<1	U	1	P	09/03/2021	13:50	LB116158
	Calcium	14	<500	U	500	P	09/03/2021	13:50	LB116158
	Chromium	0.3	<2	U	2	P	09/03/2021	13:50	LB116158
	Cobalt	0.13	<1	U	1	P	09/03/2021	13:50	LB116158
	Copper	0.59	<2	U	2	P	09/03/2021	13:50	LB116158
	Iron	10	<200	U	200	P	09/03/2021	13:50	LB116158
	Lead	0.03	<1	U	1	P	09/03/2021	13:50	LB116158
	Magnesium	15.7	<500	U	500	P	09/03/2021	13:50	LB116158
	Manganese	0.27	<1	U	1	P	09/03/2021	13:50	LB116158
	Nickel	0.25	<1	U	1	P	09/03/2021	13:50	LB116158
	Potassium	9.1	<500	U	500	P	09/03/2021	13:50	LB116158
	Selenium	0.16	<5	U	5	P	09/03/2021	13:50	LB116158
	Silver	0.01	<1	U	1	P	09/03/2021	13:50	LB116158
	Sodium	17	<500	U	500	P	09/03/2021	13:50	LB116158
	Thallium	0.09	<1	U	1	P	09/03/2021	13:50	LB116158
	Vanadium	0.42	<5	U	5	P	09/03/2021	13:50	LB116158
	Zinc	0.34	<5	U	5	P	09/03/2021	13:50	LB116158

Metals
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INTERFERENCE CHECK SAMPLE

Client: LB116158 SDG No.: LB116158
Contract: _____ Lab Code: CHEM Case No.: LB116158 SAS No.: LB116158
ICS Source: _____ Instrument ID: P8

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICSA031	Aluminum	97000	100000	97	20 - 0%	09/03/2021	13:31	LB116158
	Antimony	1.2	1.5	81	-2.5 - 5.5%	09/03/2021	13:31	LB116158
	Arsenic	0.3	0.1	300	-1.9 - 2.1%	09/03/2021	13:31	LB116158
	Barium	1.4	1.2	116	-19 - 21%	09/03/2021	13:31	LB116158
	Beryllium	0.27				09/03/2021	13:31	LB116158
	Cadmium	0.5	0.7	71	-1.3 - 2.7%	09/03/2021	13:31	LB116158
	Calcium	91000	100000	91	20 - 0%	09/03/2021	13:31	LB116158
	Chromium	20	21	96	17 - 25%	09/03/2021	13:31	LB116158
	Cobalt	1.2	1	116	-1 - 3%	09/03/2021	13:31	LB116158
	Copper	7.5	8	93	4 - 12%	09/03/2021	13:31	LB116158
	Iron	100000	100000	102	20 - 0%	09/03/2021	13:31	LB116158
	Lead	4.4	4	109	2 - 6%	09/03/2021	13:31	LB116158
	Magnesium	100000	100000	100	20 - 0%	09/03/2021	13:31	LB116158
	Manganese	7.6	7	109	5 - 9%	09/03/2021	13:31	LB116158
	Nickel	5.4	6	90	4 - 8%	09/03/2021	13:31	LB116158
	Potassium	97000	100000	97	20 - 0%	09/03/2021	13:31	LB116158
	Selenium	-0.11	0.3		-9.7 - 10%	09/03/2021	13:31	LB116158
	Silver	0.05				09/03/2021	13:31	LB116158
	Sodium	100000	100000	104	20 - 0%	09/03/2021	13:31	LB116158
	Thallium	0.02				09/03/2021	13:31	LB116158
	Vanadium	0.16	0.5	32	-9.5 - 11%	09/03/2021	13:31	LB116158
	Zinc	11	11	98	1 - 21%	09/03/2021	13:31	LB116158
ICSAB031	Aluminum	97000	100000	97	20 - 0%	09/03/2021	13:34	LB116158
	Antimony	22	22	99	18 - 26%	09/03/2021	13:34	LB116158
	Arsenic	21	19	108	16 - 22%	09/03/2021	13:34	LB116158
	Barium	23	22	103	2 - 42%	09/03/2021	13:34	LB116158
	Beryllium	22	19	113	16 - 22%	09/03/2021	13:34	LB116158
	Cadmium	21	20	103	17 - 23%	09/03/2021	13:34	LB116158
	Calcium	93000	100000	93	20 - 0%	09/03/2021	13:34	LB116158
	Chromium	40	40	100	34 - 46%	09/03/2021	13:34	LB116158
	Cobalt	21	20	107	17 - 23%	09/03/2021	13:34	LB116158
	Copper	27	25	109	21 - 29%	09/03/2021	13:34	LB116158
	Iron	100000	100000	103	20 - 0%	09/03/2021	13:34	LB116158
	Lead	24	25	94	21 - 29%	09/03/2021	13:34	LB116158
	Magnesium	100000	100000	100	20 - 0%	09/03/2021	13:34	LB116158
	Manganese	27	27	101	23 - 31%	09/03/2021	13:34	LB116158
	Nickel	25	24	104	20 - 28%	09/03/2021	13:34	LB116158
	Potassium	98000	100000	98	20 - 0%	09/03/2021	13:34	LB116158
	Selenium	20	19	104	9 - 29%	09/03/2021	13:34	LB116158
	Silver	20	18	109	15 - 21%	09/03/2021	13:34	LB116158
	Sodium	100000	100000	103	20 - 0%	09/03/2021	13:34	LB116158
	Thallium	20	21	95	18 - 24%	09/03/2021	13:34	LB116158
	Vanadium	20	19	107	9 - 29%	09/03/2021	13:34	LB116158
	Zinc	30	29	103	19 - 39%	09/03/2021	13:34	LB116158



metals
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MATRIX SPIKE SUMMARY

client: LB116158 level: low sdg no.: LB116158
contract: lab code: CHEM case no.: LB116158 sas no.: LB116158
matrix: Water sample id: M3635-05 client id: GB6J4S
Percent Solids for Sample: 0 Spiked ID: M3635-07 Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L		2100		20.0	U				P
Antimony	ug/L	75 - 125	120		2.0	U	100	119		P
Arsenic	ug/L	75 - 125	44		0.18	J	40	110		P
Barium	ug/L	75 - 125	2300		10.0	U	2000	116		P
Beryllium	ug/L	75 - 125	59		1.0	U	50	118		P
Cadmium	ug/L	75 - 125	59		1.0	U	50	118		P
Calcium	ug/L		60	U	500	U				P
Chromium	ug/L	75 - 125	210		2.0	U	200	105		P
Cobalt	ug/L	75 - 125	540		1.0	U	500	109		P
Copper	ug/L	75 - 125	270		6.6		250	106		P
Iron	ug/L		1100		200	U				P
Lead	ug/L	75 - 125	22		0.25	J	20	107		P
Magnesium	ug/L		8.6	U	500	U				P
Manganese	ug/L	75 - 125	520		0.71	J	500	104		P
Nickel	ug/L	75 - 125	520		0.26	J	500	104		P
Potassium	ug/L		66	U	500	U				P
Selenium	ug/L	75 - 125	110		5.0	U	100	113		P
Silver	ug/L	75 - 125	56		1.0	U	50	112		P
Sodium	ug/L		160000		160000					P
Thallium	ug/L	75 - 125	55		1.0	U	50	109		P
Vanadium	ug/L	75 - 125	520		5.0	U	500	105		P
Zinc	ug/L	75 - 125	550		19		500	106		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB116158 **Level:** LOW **SDG No.:** LB116158
Contract: _____ **Lab Code:** CHEM **Case No.:** LB116158 **SAS No.:** LB116158
Matrix: Water **Sample ID:** M3635-05 **Client ID:** GB6J4D
Percent Solids for Sample: 0 **Duplicate ID** M3635-06 **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	20.0	U	5.1	U			P
Antimony	ug/L	20	2.0	U	0.04	U			P
Arsenic	ug/L	20	0.18	J	0.15	J	18		P
Barium	ug/L	20	10.0	U	0.11	U			P
Beryllium	ug/L	20	1.0	U	0	U			P
Cadmium	ug/L	20	1.0	U	0.02	U			P
Calcium	ug/L	20	500	U	55	U			P
Chromium	ug/L	20	2.0	U	0.07	U			P
Cobalt	ug/L	20	1.0	U	0.02	U			P
Copper	ug/L	20	6.6		6.8		3		P
Iron	ug/L	20	200	U	3.5	U			P
Lead	ug/L	20	0.25	J	0.24	J	4		P
Magnesium	ug/L	20	500	U	8.9	U			P
Manganese	ug/L	20	0.71	J	0.23	U	200.0		P
Nickel	ug/L	20	0.26	J	0.23	U	200.0		P
Potassium	ug/L	20	500	U	70	U			P
Selenium	ug/L	20	5.0	U	0.14	U			P
Silver	ug/L	20	1.0	U	0.67	J	200.0		P
Sodium	ug/L	20	160000		160000		2		P
Thallium	ug/L	20	1.0	U	0	U			P
Vanadium	ug/L	20	5.0	U	0.1	U			P
Zinc	ug/L	20	19		17		12		P



Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB116158 **SDG No.:** LB116158
Contract: **Lab Code:** CHEM **Case No.:** LB116158 **SAS No.:** LB116158

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB138932BS							
Aluminum	ug/L	40	39		98	70 - 130	P
Antimony	ug/L	4	3.9		97	70 - 130	P
Arsenic	ug/L	2	1.9		96	70 - 130	P
Barium	ug/L	20	20		99	70 - 130	P
Beryllium	ug/L	2	2.0		101	70 - 130	P
Cadmium	ug/L	2	2.2		110	70 - 130	P
Calcium	ug/L	1000	910		91	70 - 130	P
Chromium	ug/L	4	3.9		97	70 - 130	P
Cobalt	ug/L	2	2.0		100	70 - 130	P
Copper	ug/L	4	3.7		92	70 - 130	P
Iron	ug/L	400	410		102	70 - 130	P
Lead	ug/L	2	1.8		92	70 - 130	P
Magnesium	ug/L	1000	1000		103	70 - 130	P
Manganese	ug/L	2	1.9		97	70 - 130	P
Nickel	ug/L	2	2.0		99	70 - 130	P
Potassium	ug/L	1000	960		96	70 - 130	P
Selenium	ug/L	10	9.9		99	70 - 130	P
Silver	ug/L	2	2.0		98	70 - 130	P
Sodium	ug/L	1000	1000		104	70 - 130	P
Thallium	ug/L	2	1.8		90	70 - 130	P
Vanadium	ug/L	10	9.8		98	70 - 130	P
Zinc	ug/L	10	9.2		92	70 - 130	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

GB6J4L

Lab Name: Chemtech Consulting Group

Contract: _____

Lab Code: CHEM **Lb No.:** _____

Lab Sample ID : M3635-05L **SDG No.:** LB116158

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum	20.0	U	0	U			P
Antimony	2.0	U	0	U			P
Arsenic	0.18	J	0	U	100.0		P
Barium	10.0	U	0	U			P
Beryllium	1.0	U	0	U			P
Cadmium	1.0	U	0	U			P
Calcium	500	U	45	U			P
Chromium	2.0	U	0	U			P
Cobalt	1.0	U	0	U			P
Copper	6.6		6.7	J	-1		P
Iron	200	U	1.1	U			P
Lead	0.25	J	0.2	U	100.0		P
Magnesium	500	U	6.5	U			P
Manganese	0.71	J	0	U	100.0		P
Nickel	0.26	J	0.2	U	100.0		P
Potassium	500	U	89	U			P
Selenium	5.0	U	0	U			P
Silver	1.0	U	0	U			P
Sodium	160000		160000		2		P
Thallium	1.0	U	0	U			P
Vanadium	5.0	U	0.1	U			P
Zinc	19		17	J	10		P

Metals
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SAMPLE PREPARATION SUMMARY

Client:	<u>LB116158</u>	SDG No.:	<u>LB116158</u>
Contract:	<u> </u>	Lab Code:	<u>CHEM</u>
		Method:	<u> </u>
		Case No.:	<u>LB116158</u>
		SAS No.:	<u>LB116158</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB138932							
PB138932BL	PBW932	MB	WATER	09/03/2021	50.0	50.0	
PB138932BS	LCS932	LCS	WATER	09/03/2021	50.0	50.0	
M3635-09	GB6J6	SAM	WATER	09/03/2021	50.0	50.0	
M3635-10	GB6J7	SAM	WATER	09/03/2021	50.0	50.0	
M3635-05	GB6J4	SAM	WATER	09/03/2021	50.0	50.0	
M3635-06	GB6J4D	DUP	WATER	09/03/2021	50.0	50.0	
M3635-07	GB6J4S	MS	WATER	09/03/2021	50.0	50.0	
M3635-08	GB6J5	SAM	WATER	09/03/2021	50.0	50.0	

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ANALYSIS RUN LOG

Client: LB116158

Contract:

Lab Code: CHEM **Case No.:** LB116158 **SAS No.:** LB116158

SDG No.: LB116158

Instrument ID Number: _____ **Method:** _____

Run Number: LB116158

Start Date: _____ **End Date:** _____

[illegible]

FORM 14-IN

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: _____ Contract: _____

Lab Code: CHEM Case No.: LB116158 MA No.: _____ SDG No.: LB116158

Instrument ID: P6 Start Date : 09/03/2021

Run Batch: 9/3/2021 12:00:00 End Date : 09/03/2021

EPA Sample No.	Time	Internal Standard %RI For:									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
TUNE031	1217	97		102		102		100		103	
S0	1238	100		100		100		100		100	
S02	1241	102		100		101		99		101	
S03	1244	100		101		101		100		102	
S04	1247	103		101		102		101		103	
S05	1250	103		102		102		98		103	
S06	1253	102		102		103		98		103	
S07	1256	100		101		101		97		104	
S08	1259	94		99		101		89		101	
ICV031	1320	106		103		104		103		103	
ICB031	1328	103		103		101		102		102	
ICSA031	1331	99		101		101		95		102	
ICSAB031	1334	100		104		104		95		103	
CCV016	1337	100		104		103		96		104	
CCB016	1344	103		106		105		104		104	
PBW932	1350	104		106		105		104		103	
ZZZZZZ	1350										
LCS932	1353	104		104		105		104		104	
ZZZZZZ	1353										
GB6J6	1401	120		122		120		120		120	
ZZZZZZ	1401										
GB6J7	1404	105		102		103		102		102	
ZZZZZZ	1404										
GB6J4	1407	102		102		101		98		102	
ZZZZZZ	1407										
GB6J4D	1410	105		104		103		101		105	
ZZZZZZ	1410										
GB6J4L	1414	103		105		104		102		105	
ZZZZZZ	1414										
GB6J4S	1417	98		101		98		95		98	
ZZZZZZ	1417										
GB6J5	1419	108		109		107		104		108	
ZZZZZZ	1419										
CCV017	1434	101		104		103		94		103	
CCB017	1442	109		108		107		107		107	

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ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: _____ Contract: _____

Lab Code: CHEM Case No.: LB116158 MA No.: _____ SDG No.: LB116158

Instrument ID: P6 Start Date : 09/03/2021

Run Batch: 9/3/2021 12:00:00 End Date : 09/03/2021

EPA Sample No.	Time	Internal Standard %RI For:									
		Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
TUNE031	1217	101		102		102		101		102	
S0	1238	100		100		100		100		100	
S02	1241	99		98		99		97		99	
S03	1244	95		96		95		95		97	
S04	1247	97		96		96		95		96	
S05	1250	102		102		101		101		102	
S06	1253	103		102		99		102		102	
S07	1256	104		103		97		103		104	
S08	1259	107		108		92		102		103	
ICV031	1320	107		107		105		104		105	
ICB031	1328	105		104		104		103		103	
ICSA031	1331	102		100		95		100		102	
ICSAB031	1334	104		103		97		102		103	
CCV016	1337	109		107		98		105		105	
CCB016	1344	108		108		106		107		106	
PBW932	1350	107		107		106		105		105	
ZZZZZZ	1350										
LCS932	1353	107		106		106		105		104	
ZZZZZZ	1353										
GB6J6	1401	120		120		119		119		117	
ZZZZZZ	1401										
GB6J7	1404	105		105		103		103		104	
ZZZZZZ	1404										
GB6J4	1407	105		105		101		104		104	
ZZZZZZ	1407										
GB6J4D	1410	106		105		102		106		106	
ZZZZZZ	1410										
GB6J4L	1414	102		102		102		101		102	
ZZZZZZ	1414										
GB6J4S	1417	108		107		104		106		107	
ZZZZZZ	1417										
GB6J5	1419	108		110		106		107		108	
ZZZZZZ	1419										
CCV017	1434	108		108		97		104		106	
CCB017	1442	109		109		106		106		106	

FORM 14-IN

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: _____ Contract: _____

Lab Code: CHEM Case No.: LB116158 MA No.: _____ SDG No.: LB116158

Instrument ID: P6 Start Date : 09/03/2021

Run Batch: 9/3/2021 12:00:00 End Date : 09/03/2021

EPA Sample No.	Time	Internal Standard %RI For:									
		Element		Element		Element		Element		Element	
		165Ho	Q	209Bi	Q		Q		Q		Q
TUNE031	1217	101		101							
S0	1238	100		100							
S02	1241	100		99							
S03	1244	101		100							
S04	1247	101		101							
S05	1250	102		100							
S06	1253	103		99							
S07	1256	103		96							
S08	1259	101		87							
ICV031	1320	103		101							
ICB031	1328	102		102							
ICSA031	1331	101		95							
ICSAB031	1334	104		98							
CCV016	1337	104		94							
CCB016	1344	102		102							
PBW932	1350	104		103							
ZZZZZZ	1350										
LCS932	1353	104		102							
ZZZZZZ	1353										
GB6J6	1401	117		119							
ZZZZZZ	1401										
GB6J7	1404	101		102							
ZZZZZZ	1404										
GB6J4	1407	102		99							
ZZZZZZ	1407										
GB6J4D	1410	106		99							
ZZZZZZ	1410										
GB6J4L	1414	104		103							
ZZZZZZ	1414										
GB6J4S	1417	98		96							
ZZZZZZ	1417										
GB6J5	1419	106		104							
ZZZZZZ	1419										
CCV017	1434	102		91							
CCB017	1442	104		105							

FORM 14-IN

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: _____ Contract: _____

Lab Code: CHEM Case No.: LB116158 MA No.: _____ SDG No.: LB116158

Instrument ID: P6 Start Date : 09/03/2021

Run Batch: 9/3/2021 12:00:00 End Date : 09/03/2021

EPA Sample No.	Time	Internal Standard %RI For:									
		Element		Element		Element		Element		Element	
		209Bi	Q		Q		Q		Q		Q
TUNE031	1217	101									
S0	1238	100									
S02	1241	98									
S03	1244	96									
S04	1247	94									
S05	1250	98									
S06	1253	97									
S07	1256	96									
S08	1259	89									
ICV031	1320	104									
ICB031	1328	102									
ICSA031	1331	93									
ICSAB031	1334	95									
CCV016	1337	94									
CCB016	1344	105									
PBW932	1350	105									
ZZZZZZ	1350										
LCS932	1353	103									
ZZZZZZ	1353										
GB6J6	1401	118									
ZZZZZZ	1401										
GB6J7	1404	103									
ZZZZZZ	1404										
GB6J4	1407	100									
ZZZZZZ	1407										
GB6J4D	1410	102									
ZZZZZZ	1410										
GB6J4L	1414	100									
ZZZZZZ	1414										
GB6J4S	1417	101									
ZZZZZZ	1417										
GB6J5	1419	105									
ZZZZZZ	1419										
CCV017	1434	94									
CCB017	1442	105									

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB116158 Contract: _____
 Lab Code: CHEM Case No.: LB116158 MA No.: _____ SDG No.: LB116158
 Instrument ID: P8 Start Date: 09/03/2021
 Analytical Method: _____ Run Batch: LB116158.mdb
 Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0	0	0				20	19	-5
Antimony	0	0	0				2	2.0	0
Arsenic	0	0	0				1	1.1	10
Barium	0	0	0				10	10	0
Beryllium	0	0	0				1	1.0	0
Cadmium	0	0	0				1	1.1	10
Calcium	0	0	0				500	470	-6
Chromium	0	0	0				2	2.1	5
Cobalt	0	0	0				1	1.1	10
Copper	0	0	0				2	1.9	-5
Iron	0	0	0				50	55	10
Lead	0	0	0				1	0.95	-5
Magnesium	0	0	0				500	550	10
Manganese	0	0	0				1	1.0	0
Nickel	0	0	0				1	1.1	10
Potassium	0	0	0				500	500	0
Selenium	0	0	0				5	4.8	-4
Silver	0	0	0				1	0.98	-2
Sodium	0	0	0				500	550	10
Thallium	0	0	0				1	0.94	-6
Vanadium	0	0	0				5	5.2	4
Zinc	0	0	0				2	2.1	5

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB116158 Contract: _____
 Lab Code: CHEM Case No.: LB116158 MA No.: _____ SDG No.: LB116158
 Instrument ID: P8 Start Date: 09/03/2021
 Analytical Method: _____ Run Batch: LB116158.mdb
 Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	1000	1000	0	2500	2700	8	5000	5200	4
Antimony	50	51	2	125	130	4	250	260	4
Arsenic	50	51	2	125	130	4	250	250	0
Barium	250	260	4	625	660	6	1250	1300	4
Beryllium	50	53	6	125	130	4	250	260	4
Cadmium	50	52	4	125	130	4	250	260	4
Calcium	5000	4800	-4	12500	12000	-4	25000	24000	-4
Chromium	50	52	4	125	130	4	250	250	0
Cobalt	50	52	4	125	130	4	250	260	4
Copper	500	550	10	1250	1300	4	2500	2600	4
Iron	2500	2700	8	6250	6700	7	12500	13000	4
Lead	250	250	0	625	620	-1	1250	1200	-4
Magnesium	5000	5500	10	12500	14000	12	25000	27000	8
Manganese	500	520	4	1250	1300	4	2500	2600	4
Nickel	50	52	4	125	130	4	250	250	0
Potassium	2500	2600	4	6250	6500	4	12500	13000	4
Selenium	50	51	2	125	130	4	250	250	0
Silver	50	53	6	125	140	12	250	270	8
Sodium	5000	5300	6	12500	13000	4	25000	26000	4
Thallium	50	48	-4	125	120	-4	250	250	0
Vanadium	50	51	2	125	130	4	250	250	0
Zinc	500	530	6	1250	1300	4	2500	2600	4

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB116158 Contract: _____
 Lab Code: CHEM Case No.: LB116158 MA No.: _____ SDG No.: LB116158
 Instrument ID: P8 Start Date: 09/03/2021
 Analytical Method: _____ Run Batch: LB116158.mdb
 Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	10000	10000	0	20000	20000	0	100000	100000	0
Antimony	500	510	2	1000	990	-1	0	0.91	0
Arsenic	500	510	2	1000	990	-1	0	0.25	0
Barium	2500	2500	0	5000	5000	0	0	1.6	0
Beryllium	500	510	2	1000	990	-1	0	0.09	0
Cadmium	500	510	2	1000	990	-1	0	0.3	0
Calcium	50000	48000	-4	100000	96000	-4	500000	500000	0
Chromium	500	510	2	1000	1000	0	0	6.1	0
Cobalt	500	510	2	1000	990	-1	0	1.4	0
Copper	5000	5100	2	10000	9900	-1	0	3.5	0
Iron	25000	26000	4	50000	52000	4	250000	250000	0
Lead	2500	2500	0	5000	5000	0	0	2.6	0
Magnesium	50000	53000	6	100000	100000	0	500000	500000	0
Manganese	5000	5000	0	10000	9900	-1	0	9.3	0
Nickel	500	500	0	1000	1000	0	0	4.7	0
Potassium	25000	25000	0	50000	49000	-2	250000	250000	0
Selenium	500	500	0	1000	1000	0	0	0.03	0
Silver	500	540	8	1000	970	-3	0	0.31	0
Sodium	50000	51000	2	100000	100000	0	500000	500000	0
Thallium	500	500	0	1000	1000	0	0	0.19	0
Vanadium	500	500	0	1000	1000	0	0	0.15	0
Zinc	5000	5200	4	10000	9900	-1	0	29	0