

LAB CHRONICLE

OrderID:	Q3434	OrderDate:	10/22/2025 1:40:00 PM
Client:	AECOM	Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Contact:	Rob Forstner	Location:	D41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3434-02	PR132-WC2-2025102 2	Water			10/22/25			10/22/25
			Mercury	7470A		10/23/25	10/24/25	
			Metals ICP-TAL	6010D		10/23/25	10/24/25	
			Metals ICP-TAL	6010D		10/23/25	10/28/25	

Hit Summary Sheet SW-846

SDG No.: Q3434

Order ID: Q3434

Client: AECOM

Project ID: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PR132-WC2-20251022								
Q3434-02	PR132-WC2-20251022	Water	Aluminum	4210		5.67	50.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Antimony	4.71	J	3.38	25.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Arsenic	8.64	J	2.56	10.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Barium	233		7.28	50.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Cadmium	1.24	J	0.25	3.00	ug/L
Q3434-02	PR132-WC2-20251022	Water	Calcium	77900		117	1000	ug/L
Q3434-02	PR132-WC2-20251022	Water	Chromium	45.4		1.06	5.00	ug/L
Q3434-02	PR132-WC2-20251022	Water	Cobalt	3.37	J	1.13	15.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Copper	51.0		2.30	10.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Iron	11300		11.7	50.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Lead	71.0		1.15	6.00	ug/L
Q3434-02	PR132-WC2-20251022	Water	Magnesium	239000		122	1000	ug/L
Q3434-02	PR132-WC2-20251022	Water	Manganese	564		2.97	10.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Mercury	1.03		0.076	0.20	ug/L
Q3434-02	PR132-WC2-20251022	Water	Nickel	15.6	J	1.53	20.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Potassium	119000		459	1000	ug/L
Q3434-02	PR132-WC2-20251022	Water	Selenium	8.31	J	4.82	10.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Silver	2.08	J	0.81	5.00	ug/L
Q3434-02	PR132-WC2-20251022	Water	Sodium	2510000	D	2170	5000	ug/L
Q3434-02	PR132-WC2-20251022	Water	Vanadium	13.7	J	3.13	20.0	ug/L
Q3434-02	PR132-WC2-20251022	Water	Zinc	317		8.33	20.0	ug/L



SAMPLE DATA

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-WC2-20251022
Lab Sample ID: Q3434-02
Level (low/med): low

Date Collected: 10/22/25
Date Received: 10/22/25
SDG No.: Q3434
Matrix: Water
% Solid: 0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4210		1	5.67	50.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-36-0	Antimony	4.71	JN	1	3.38	25.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-38-2	Arsenic	8.64	JN	1	2.56	10.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-39-3	Barium	233		1	7.28	50.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-41-7	Beryllium	3.00	U	1	0.28	3.00	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-43-9	Cadmium	1.24	J	1	0.25	3.00	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-70-2	Calcium	77900		1	117	1000	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-47-3	Chromium	45.4		1	1.06	5.00	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-48-4	Cobalt	3.37	J	1	1.13	15.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-50-8	Copper	51.0		1	2.30	10.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7439-89-6	Iron	11300	N	1	11.7	50.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7439-92-1	Lead	71.0		1	1.15	6.00	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7439-95-4	Magnesium	239000		1	122	1000	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7439-96-5	Manganese	564		1	2.97	10.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7439-97-6	Mercury	1.03		1	0.076	0.20	ug/L	10/23/25 09:32	10/24/25 11:01	7470A	
7440-02-0	Nickel	15.6	J	1	1.53	20.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-09-7	Potassium	119000	N*	1	459	1000	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7782-49-2	Selenium	8.31	JN	1	4.82	10.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-22-4	Silver	2.08	JN	1	0.81	5.00	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-23-5	Sodium	2510000	D	5	2170	5000	ug/L	10/23/25 10:35	10/28/25 16:10	6010D	
7440-28-0	Thallium	20.0	U	1	2.19	20.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-62-2	Vanadium	13.7	J	1	3.13	20.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	
7440-66-6	Zinc	317	N	1	8.33	20.0	ug/L	10/23/25 10:35	10/24/25 15:55	6010D	

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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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
ICV86	Mercury	4.16	4.0	104	90 - 110	CV	10/24/2025	09:20	LB137632

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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
CCV83	Mercury	4.66	5.0	93	90 - 110	CV	10/24/2025	09:25	LB137632
CCV84	Mercury	5.06	5.0	101	90 - 110	CV	10/24/2025	10:09	LB137632
CCV85	Mercury	5.05	5.0	101	90 - 110	CV	10/24/2025	10:40	LB137632
CCV86	Mercury	5.01	5.0	100	90 - 110	CV	10/24/2025	11:12	LB137632
CCV87	Mercury	4.70	5.0	94	90 - 110	CV	10/24/2025	11:33	LB137632

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	7820	8000	98	90 - 110	P	10/24/2025	14:33	LB137662
	Antimony	4010	4000	100	90 - 110	P	10/24/2025	14:33	LB137662
	Arsenic	3950	4000	99	90 - 110	P	10/24/2025	14:33	LB137662
	Barium	7700	8000	96	90 - 110	P	10/24/2025	14:33	LB137662
	Beryllium	198	200	99	90 - 110	P	10/24/2025	14:33	LB137662
	Cadmium	1950	2000	98	90 - 110	P	10/24/2025	14:33	LB137662
	Calcium	19400	20000	97	90 - 110	P	10/24/2025	14:33	LB137662
	Chromium	812	800	101	90 - 110	P	10/24/2025	14:33	LB137662
	Cobalt	1960	2000	98	90 - 110	P	10/24/2025	14:33	LB137662
	Copper	1010	1000	101	90 - 110	P	10/24/2025	14:33	LB137662
	Iron	3910	4000	98	90 - 110	P	10/24/2025	14:33	LB137662
	Lead	3830	4000	96	90 - 110	P	10/24/2025	14:33	LB137662
	Magnesium	19500	20000	97	90 - 110	P	10/24/2025	14:33	LB137662
	Manganese	1920	2000	96	90 - 110	P	10/24/2025	14:33	LB137662
	Nickel	1970	2000	98	90 - 110	P	10/24/2025	14:33	LB137662
	Potassium	19100	20000	96	90 - 110	P	10/24/2025	14:33	LB137662
	Selenium	3970	4000	99	90 - 110	P	10/24/2025	14:33	LB137662
	Silver	986	1000	99	90 - 110	P	10/24/2025	14:33	LB137662
	Sodium	18600	20000	93	90 - 110	P	10/24/2025	14:33	LB137662
	Thallium	4010	4000	100	90 - 110	P	10/24/2025	14:33	LB137662
	Vanadium	1950	2000	97	90 - 110	P	10/24/2025	14:33	LB137662
	Zinc	1980	2000	99	90 - 110	P	10/24/2025	14:33	LB137662

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	108	100	108	80 - 120	P	10/24/2025	14:38	LB137662
	Antimony	52.6	50.0	105	80 - 120	P	10/24/2025	14:38	LB137662
	Arsenic	23.0	20.0	115	80 - 120	P	10/24/2025	14:38	LB137662
	Barium	100	100	100	80 - 120	P	10/24/2025	14:38	LB137662
	Beryllium	6.40	6.0	107	80 - 120	P	10/24/2025	14:38	LB137662
	Cadmium	6.05	6.0	101	80 - 120	P	10/24/2025	14:38	LB137662
	Calcium	2100	2000	105	80 - 120	P	10/24/2025	14:38	LB137662
	Chromium	10.4	10.0	104	80 - 120	P	10/24/2025	14:38	LB137662
	Cobalt	30.5	30.0	102	80 - 120	P	10/24/2025	14:38	LB137662
	Copper	22.9	20.0	114	80 - 120	P	10/24/2025	14:38	LB137662
	Iron	104	100	104	80 - 120	P	10/24/2025	14:38	LB137662
	Lead	12.9	12.0	107	80 - 120	P	10/24/2025	14:38	LB137662
	Magnesium	2170	2000	109	80 - 120	P	10/24/2025	14:38	LB137662
	Manganese	22.0	20.0	110	80 - 120	P	10/24/2025	14:38	LB137662
	Nickel	40.7	40.0	102	80 - 120	P	10/24/2025	14:38	LB137662
	Potassium	2010	2000	101	80 - 120	P	10/24/2025	14:38	LB137662
	Selenium	20.8	20.0	104	80 - 120	P	10/24/2025	14:38	LB137662
	Silver	11.2	10.0	112	80 - 120	P	10/24/2025	14:38	LB137662
	Sodium	1900	2000	95	80 - 120	P	10/24/2025	14:38	LB137662
	Thallium	45.9	40.0	115	80 - 120	P	10/24/2025	14:38	LB137662
	Vanadium	40.6	40.0	102	80 - 120	P	10/24/2025	14:38	LB137662
	Zinc	43.9	40.0	110	80 - 120	P	10/24/2025	14:38	LB137662

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM
Contract: AECO02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3434
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10100	10000	102	90 - 110	P	10/24/2025	15:12	LB137662
	Antimony	5110	5000	102	90 - 110	P	10/24/2025	15:12	LB137662
	Arsenic	5130	5000	102	90 - 110	P	10/24/2025	15:12	LB137662
	Barium	9810	10000	98	90 - 110	P	10/24/2025	15:12	LB137662
	Beryllium	253	250	101	90 - 110	P	10/24/2025	15:12	LB137662
	Cadmium	2550	2500	102	90 - 110	P	10/24/2025	15:12	LB137662
	Calcium	25100	25000	100	90 - 110	P	10/24/2025	15:12	LB137662
	Chromium	1030	1000	103	90 - 110	P	10/24/2025	15:12	LB137662
	Cobalt	2530	2500	101	90 - 110	P	10/24/2025	15:12	LB137662
	Copper	1280	1250	102	90 - 110	P	10/24/2025	15:12	LB137662
	Iron	5070	5000	102	90 - 110	P	10/24/2025	15:12	LB137662
	Lead	5060	5000	101	90 - 110	P	10/24/2025	15:12	LB137662
	Magnesium	25100	25000	100	90 - 110	P	10/24/2025	15:12	LB137662
	Manganese	2480	2500	99	90 - 110	P	10/24/2025	15:12	LB137662
	Nickel	2540	2500	102	90 - 110	P	10/24/2025	15:12	LB137662
	Potassium	24900	25000	100	90 - 110	P	10/24/2025	15:12	LB137662
	Selenium	5140	5000	103	90 - 110	P	10/24/2025	15:12	LB137662
	Silver	1270	1250	102	90 - 110	P	10/24/2025	15:12	LB137662
	Sodium	24300	25000	97	90 - 110	P	10/24/2025	15:12	LB137662
	Thallium	5220	5000	104	90 - 110	P	10/24/2025	15:12	LB137662
	Vanadium	2500	2500	100	90 - 110	P	10/24/2025	15:12	LB137662
	Zinc	2580	2500	103	90 - 110	P	10/24/2025	15:12	LB137662
CCV02	Aluminum	10300	10000	103	90 - 110	P	10/24/2025	16:32	LB137662
	Antimony	5070	5000	101	90 - 110	P	10/24/2025	16:32	LB137662
	Arsenic	5130	5000	103	90 - 110	P	10/24/2025	16:32	LB137662
	Barium	10100	10000	101	90 - 110	P	10/24/2025	16:32	LB137662
	Beryllium	268	250	107	90 - 110	P	10/24/2025	16:32	LB137662
	Cadmium	2580	2500	103	90 - 110	P	10/24/2025	16:32	LB137662
	Calcium	25700	25000	103	90 - 110	P	10/24/2025	16:32	LB137662
	Chromium	1050	1000	105	90 - 110	P	10/24/2025	16:32	LB137662
	Cobalt	2560	2500	103	90 - 110	P	10/24/2025	16:32	LB137662
	Copper	1290	1250	103	90 - 110	P	10/24/2025	16:32	LB137662
	Iron	5080	5000	102	90 - 110	P	10/24/2025	16:32	LB137662
	Lead	5110	5000	102	90 - 110	P	10/24/2025	16:32	LB137662

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

Contract: AECO02

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3434

Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	25900	25000	104	90 - 110	P	10/24/2025	16:32	LB137662
	Manganese	2560	2500	102	90 - 110	P	10/24/2025	16:32	LB137662
	Nickel	2570	2500	103	90 - 110	P	10/24/2025	16:32	LB137662
	Potassium	26000	25000	104	90 - 110	P	10/24/2025	16:32	LB137662
	Selenium	5120	5000	102	90 - 110	P	10/24/2025	16:32	LB137662
	Silver	1300	1250	104	90 - 110	P	10/24/2025	16:32	LB137662
	Sodium	27200	25000	109	90 - 110	P	10/24/2025	16:32	LB137662
	Thallium	5190	5000	104	90 - 110	P	10/24/2025	16:32	LB137662
	Vanadium	2550	2500	102	90 - 110	P	10/24/2025	16:32	LB137662
	Zinc	2610	2500	104	90 - 110	P	10/24/2025	16:32	LB137662
CCV03	Aluminum	10300	10000	103	90 - 110	P	10/24/2025	18:29	LB137662
	Antimony	4880	5000	98	90 - 110	P	10/24/2025	18:29	LB137662
	Arsenic	4980	5000	100	90 - 110	P	10/24/2025	18:29	LB137662
	Barium	10100	10000	101	90 - 110	P	10/24/2025	18:29	LB137662
	Beryllium	274	250	110	90 - 110	P	10/24/2025	18:29	LB137662
	Cadmium	2530	2500	101	90 - 110	P	10/24/2025	18:29	LB137662
	Calcium	25800	25000	103	90 - 110	P	10/24/2025	18:29	LB137662
	Chromium	1040	1000	104	90 - 110	P	10/24/2025	18:29	LB137662
	Cobalt	2500	2500	100	90 - 110	P	10/24/2025	18:29	LB137662
	Copper	1250	1250	100	90 - 110	P	10/24/2025	18:29	LB137662
	Iron	5170	5000	103	90 - 110	P	10/24/2025	18:29	LB137662
	Lead	5010	5000	100	90 - 110	P	10/24/2025	18:29	LB137662
	Magnesium	26100	25000	104	90 - 110	P	10/24/2025	18:29	LB137662
	Manganese	2560	2500	102	90 - 110	P	10/24/2025	18:29	LB137662
	Nickel	2510	2500	100	90 - 110	P	10/24/2025	18:29	LB137662
	Potassium	24500	25000	98	90 - 110	P	10/24/2025	18:29	LB137662
	Selenium	4940	5000	99	90 - 110	P	10/24/2025	18:29	LB137662
	Silver	1270	1250	102	90 - 110	P	10/24/2025	18:29	LB137662
	Sodium	24500	25000	98	90 - 110	P	10/24/2025	18:29	LB137662
	Thallium	5060	5000	101	90 - 110	P	10/24/2025	18:29	LB137662
	Vanadium	2550	2500	102	90 - 110	P	10/24/2025	18:29	LB137662
	Zinc	2490	2500	100	90 - 110	P	10/24/2025	18:29	LB137662
CCV04	Aluminum	9950	10000	100	90 - 110	P	10/24/2025	19:19	LB137662
	Antimony	4810	5000	96	90 - 110	P	10/24/2025	19:19	LB137662

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM
Contract: AECO02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3434
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4830	5000	97	90 - 110	P	10/24/2025	19:19	LB137662
	Barium	10200	10000	102	90 - 110	P	10/24/2025	19:19	LB137662
	Beryllium	265	250	106	90 - 110	P	10/24/2025	19:19	LB137662
	Cadmium	2490	2500	100	90 - 110	P	10/24/2025	19:19	LB137662
	Calcium	25200	25000	101	90 - 110	P	10/24/2025	19:19	LB137662
	Chromium	1010	1000	101	90 - 110	P	10/24/2025	19:19	LB137662
	Cobalt	2470	2500	99	90 - 110	P	10/24/2025	19:19	LB137662
	Copper	1240	1250	99	90 - 110	P	10/24/2025	19:19	LB137662
	Iron	4840	5000	97	90 - 110	P	10/24/2025	19:19	LB137662
	Lead	4940	5000	99	90 - 110	P	10/24/2025	19:19	LB137662
	Magnesium	25200	25000	101	90 - 110	P	10/24/2025	19:19	LB137662
	Manganese	2560	2500	102	90 - 110	P	10/24/2025	19:19	LB137662
	Nickel	2480	2500	99	90 - 110	P	10/24/2025	19:19	LB137662
	Potassium	23800	25000	95	90 - 110	P	10/24/2025	19:19	LB137662
	Selenium	4770	5000	95	90 - 110	P	10/24/2025	19:19	LB137662
	Silver	1230	1250	98	90 - 110	P	10/24/2025	19:19	LB137662
	Sodium	24500	25000	98	90 - 110	P	10/24/2025	19:19	LB137662
	Thallium	4750	5000	95	90 - 110	P	10/24/2025	19:19	LB137662
	Vanadium	2480	2500	99	90 - 110	P	10/24/2025	19:19	LB137662
	Zinc	2430	2500	97	90 - 110	P	10/24/2025	19:19	LB137662
CCV05	Aluminum	9880	10000	99	90 - 110	P	10/24/2025	20:06	LB137662
	Antimony	4740	5000	95	90 - 110	P	10/24/2025	20:06	LB137662
	Arsenic	4800	5000	96	90 - 110	P	10/24/2025	20:06	LB137662
	Barium	9900	10000	99	90 - 110	P	10/24/2025	20:06	LB137662
	Beryllium	265	250	106	90 - 110	P	10/24/2025	20:06	LB137662
	Cadmium	2480	2500	99	90 - 110	P	10/24/2025	20:06	LB137662
	Calcium	24900	25000	100	90 - 110	P	10/24/2025	20:06	LB137662
	Chromium	1010	1000	101	90 - 110	P	10/24/2025	20:06	LB137662
	Cobalt	2450	2500	98	90 - 110	P	10/24/2025	20:06	LB137662
	Copper	1230	1250	98	90 - 110	P	10/24/2025	20:06	LB137662
	Iron	4680	5000	94	90 - 110	P	10/24/2025	20:06	LB137662
	Lead	4890	5000	98	90 - 110	P	10/24/2025	20:06	LB137662
	Magnesium	25200	25000	101	90 - 110	P	10/24/2025	20:06	LB137662
	Manganese	2510	2500	100	90 - 110	P	10/24/2025	20:06	LB137662

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	Nickel	2460	2500	98	90 - 110	P	10/24/2025	20:06	LB137662
	Potassium	23900	25000	96	90 - 110	P	10/24/2025	20:06	LB137662
	Selenium	4730	5000	94	90 - 110	P	10/24/2025	20:06	LB137662
	Silver	1210	1250	97	90 - 110	P	10/24/2025	20:06	LB137662
	Sodium	24900	25000	100	90 - 110	P	10/24/2025	20:06	LB137662
	Thallium	4910	5000	98	90 - 110	P	10/24/2025	20:06	LB137662
	Vanadium	2450	2500	98	90 - 110	P	10/24/2025	20:06	LB137662
	Zinc	2420	2500	97	90 - 110	P	10/24/2025	20:06	LB137662

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	7290	8000	91	90 - 110	P	10/28/2025	12:30	LB137677
	Antimony	3900	4000	97	90 - 110	P	10/28/2025	12:30	LB137677
	Arsenic	3820	4000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Barium	7600	8000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Beryllium	191	200	95	90 - 110	P	10/28/2025	12:30	LB137677
	Cadmium	1900	2000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Calcium	18800	20000	94	90 - 110	P	10/28/2025	12:30	LB137677
	Chromium	783	800	98	90 - 110	P	10/28/2025	12:30	LB137677
	Cobalt	1920	2000	96	90 - 110	P	10/28/2025	12:30	LB137677
	Copper	983	1000	98	90 - 110	P	10/28/2025	12:30	LB137677
	Iron	3830	4000	96	90 - 110	P	10/28/2025	12:30	LB137677
	Lead	3730	4000	93	90 - 110	P	10/28/2025	12:30	LB137677
	Magnesium	18800	20000	94	90 - 110	P	10/28/2025	12:30	LB137677
	Manganese	1880	2000	94	90 - 110	P	10/28/2025	12:30	LB137677
	Nickel	1920	2000	96	90 - 110	P	10/28/2025	12:30	LB137677
	Potassium	19000	20000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Selenium	3820	4000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Silver	963	1000	96	90 - 110	P	10/28/2025	12:30	LB137677
	Sodium	18700	20000	94	90 - 110	P	10/28/2025	12:30	LB137677
	Thallium	3890	4000	97	90 - 110	P	10/28/2025	12:30	LB137677
	Vanadium	1880	2000	94	90 - 110	P	10/28/2025	12:30	LB137677
	Zinc	1930	2000	97	90 - 110	P	10/28/2025	12:30	LB137677

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	104	100	104	80 - 120	P	10/28/2025	12:34	LB137677
	Antimony	52.9	50.0	106	80 - 120	P	10/28/2025	12:34	LB137677
	Arsenic	20.3	20.0	102	80 - 120	P	10/28/2025	12:34	LB137677
	Barium	93.0	100	93	80 - 120	P	10/28/2025	12:34	LB137677
	Beryllium	6.41	6.0	107	80 - 120	P	10/28/2025	12:34	LB137677
	Cadmium	5.86	6.0	98	80 - 120	P	10/28/2025	12:34	LB137677
	Calcium	1990	2000	100	80 - 120	P	10/28/2025	12:34	LB137677
	Chromium	10.6	10.0	106	80 - 120	P	10/28/2025	12:34	LB137677
	Cobalt	29.8	30.0	100	80 - 120	P	10/28/2025	12:34	LB137677
	Copper	22.2	20.0	111	80 - 120	P	10/28/2025	12:34	LB137677
	Iron	98.8	100	99	80 - 120	P	10/28/2025	12:34	LB137677
	Lead	12.0	12.0	100	80 - 120	P	10/28/2025	12:34	LB137677
	Magnesium	2050	2000	103	80 - 120	P	10/28/2025	12:34	LB137677
	Manganese	20.1	20.0	101	80 - 120	P	10/28/2025	12:34	LB137677
	Nickel	39.9	40.0	100	80 - 120	P	10/28/2025	12:34	LB137677
	Potassium	1840	2000	92	80 - 120	P	10/28/2025	12:34	LB137677
	Selenium	20.7	20.0	104	80 - 120	P	10/28/2025	12:34	LB137677
	Silver	12.0	10.0	120	80 - 120	P	10/28/2025	12:34	LB137677
	Sodium	1730	2000	86	80 - 120	P	10/28/2025	12:34	LB137677
	Thallium	44.4	40.0	111	80 - 120	P	10/28/2025	12:34	LB137677
	Vanadium	37.3	40.0	93	80 - 120	P	10/28/2025	12:34	LB137677
	Zinc	42.5	40.0	106	80 - 120	P	10/28/2025	12:34	LB137677

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	10400	10000	104	90 - 110	P	10/28/2025	13:03	LB137677
	Antimony	4970	5000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Arsenic	4950	5000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Barium	10000	10000	100	90 - 110	P	10/28/2025	13:03	LB137677
	Beryllium	246	250	98	90 - 110	P	10/28/2025	13:03	LB137677
	Cadmium	2480	2500	99	90 - 110	P	10/28/2025	13:03	LB137677
	Calcium	24600	25000	98	90 - 110	P	10/28/2025	13:03	LB137677
	Chromium	989	1000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Cobalt	2490	2500	99	90 - 110	P	10/28/2025	13:03	LB137677
	Copper	1250	1250	100	90 - 110	P	10/28/2025	13:03	LB137677
	Iron	5030	5000	101	90 - 110	P	10/28/2025	13:03	LB137677
	Lead	4910	5000	98	90 - 110	P	10/28/2025	13:03	LB137677
	Magnesium	24200	25000	97	90 - 110	P	10/28/2025	13:03	LB137677
	Manganese	2480	2500	99	90 - 110	P	10/28/2025	13:03	LB137677
	Nickel	2480	2500	99	90 - 110	P	10/28/2025	13:03	LB137677
	Potassium	24700	25000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Selenium	4960	5000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Silver	1240	1250	99	90 - 110	P	10/28/2025	13:03	LB137677
	Sodium	24600	25000	98	90 - 110	P	10/28/2025	13:03	LB137677
	Thallium	5020	5000	100	90 - 110	P	10/28/2025	13:03	LB137677
	Vanadium	2460	2500	98	90 - 110	P	10/28/2025	13:03	LB137677
	Zinc	2500	2500	100	90 - 110	P	10/28/2025	13:03	LB137677
CCV02	Aluminum	11000	10000	110	90 - 110	P	10/28/2025	14:01	LB137677
	Antimony	5220	5000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Arsenic	5220	5000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Barium	10200	10000	102	90 - 110	P	10/28/2025	14:01	LB137677
	Beryllium	262	250	105	90 - 110	P	10/28/2025	14:01	LB137677
	Cadmium	2610	2500	104	90 - 110	P	10/28/2025	14:01	LB137677
	Calcium	25900	25000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Chromium	1060	1000	106	90 - 110	P	10/28/2025	14:01	LB137677
	Cobalt	2600	2500	104	90 - 110	P	10/28/2025	14:01	LB137677
	Copper	1300	1250	104	90 - 110	P	10/28/2025	14:01	LB137677
	Iron	5170	5000	103	90 - 110	P	10/28/2025	14:01	LB137677
	Lead	5150	5000	103	90 - 110	P	10/28/2025	14:01	LB137677

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	25800	25000	103	90 - 110	P	10/28/2025	14:01	LB137677
	Manganese	2560	2500	102	90 - 110	P	10/28/2025	14:01	LB137677
	Nickel	2600	2500	104	90 - 110	P	10/28/2025	14:01	LB137677
	Potassium	26100	25000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Selenium	5230	5000	105	90 - 110	P	10/28/2025	14:01	LB137677
	Silver	1290	1250	104	90 - 110	P	10/28/2025	14:01	LB137677
	Sodium	26000	25000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Thallium	5450	5000	109	90 - 110	P	10/28/2025	14:01	LB137677
	Vanadium	2590	2500	103	90 - 110	P	10/28/2025	14:01	LB137677
	Zinc	2590	2500	104	90 - 110	P	10/28/2025	14:01	LB137677
CCV03	Aluminum	10000	10000	100	90 - 110	P	10/28/2025	14:53	LB137677
	Antimony	4950	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Arsenic	4950	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Barium	10500	10000	105	90 - 110	P	10/28/2025	14:53	LB137677
	Beryllium	262	250	105	90 - 110	P	10/28/2025	14:53	LB137677
	Cadmium	2510	2500	101	90 - 110	P	10/28/2025	14:53	LB137677
	Calcium	25900	25000	104	90 - 110	P	10/28/2025	14:53	LB137677
	Chromium	1040	1000	104	90 - 110	P	10/28/2025	14:53	LB137677
	Cobalt	2520	2500	101	90 - 110	P	10/28/2025	14:53	LB137677
	Copper	1260	1250	101	90 - 110	P	10/28/2025	14:53	LB137677
	Iron	5130	5000	103	90 - 110	P	10/28/2025	14:53	LB137677
	Lead	4950	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Magnesium	25700	25000	103	90 - 110	P	10/28/2025	14:53	LB137677
	Manganese	2640	2500	106	90 - 110	P	10/28/2025	14:53	LB137677
	Nickel	2510	2500	100	90 - 110	P	10/28/2025	14:53	LB137677
	Potassium	26000	25000	104	90 - 110	P	10/28/2025	14:53	LB137677
	Selenium	4940	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Silver	1280	1250	102	90 - 110	P	10/28/2025	14:53	LB137677
	Sodium	27500	25000	110	90 - 110	P	10/28/2025	14:53	LB137677
	Thallium	5070	5000	101	90 - 110	P	10/28/2025	14:53	LB137677
CCV04	Vanadium	2570	2500	103	90 - 110	P	10/28/2025	14:53	LB137677
	Zinc	2560	2500	102	90 - 110	P	10/28/2025	14:53	LB137677
	Aluminum	9560	10000	96	90 - 110	P	10/28/2025	15:45	LB137677
	Antimony	4910	5000	98	90 - 110	P	10/28/2025	15:45	LB137677

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	Arsenic	4930	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Barium	9920	10000	99	90 - 110	P	10/28/2025	15:45	LB137677
	Beryllium	256	250	102	90 - 110	P	10/28/2025	15:45	LB137677
	Cadmium	2500	2500	100	90 - 110	P	10/28/2025	15:45	LB137677
	Calcium	24700	25000	99	90 - 110	P	10/28/2025	15:45	LB137677
	Chromium	1000	1000	100	90 - 110	P	10/28/2025	15:45	LB137677
	Cobalt	2490	2500	100	90 - 110	P	10/28/2025	15:45	LB137677
	Copper	1250	1250	100	90 - 110	P	10/28/2025	15:45	LB137677
	Iron	4890	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Lead	4920	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Magnesium	24700	25000	99	90 - 110	P	10/28/2025	15:45	LB137677
	Manganese	2500	2500	100	90 - 110	P	10/28/2025	15:45	LB137677
	Nickel	2490	2500	99	90 - 110	P	10/28/2025	15:45	LB137677
	Potassium	24800	25000	99	90 - 110	P	10/28/2025	15:45	LB137677
	Selenium	4930	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Silver	1240	1250	99	90 - 110	P	10/28/2025	15:45	LB137677
	Sodium	25700	25000	103	90 - 110	P	10/28/2025	15:45	LB137677
	Thallium	5210	5000	104	90 - 110	P	10/28/2025	15:45	LB137677
	Vanadium	2460	2500	98	90 - 110	P	10/28/2025	15:45	LB137677
	Zinc	2480	2500	99	90 - 110	P	10/28/2025	15:45	LB137677
CCV05	Aluminum	9900	10000	99	90 - 110	P	10/28/2025	16:35	LB137677
	Antimony	5120	5000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Arsenic	5100	5000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Barium	10300	10000	103	90 - 110	P	10/28/2025	16:35	LB137677
	Beryllium	262	250	105	90 - 110	P	10/28/2025	16:35	LB137677
	Cadmium	2560	2500	102	90 - 110	P	10/28/2025	16:35	LB137677
	Calcium	25500	25000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Chromium	1030	1000	103	90 - 110	P	10/28/2025	16:35	LB137677
	Cobalt	2580	2500	103	90 - 110	P	10/28/2025	16:35	LB137677
	Copper	1290	1250	103	90 - 110	P	10/28/2025	16:35	LB137677
	Iron	5070	5000	101	90 - 110	P	10/28/2025	16:35	LB137677
	Lead	5060	5000	101	90 - 110	P	10/28/2025	16:35	LB137677
	Magnesium	25400	25000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Manganese	2590	2500	104	90 - 110	P	10/28/2025	16:35	LB137677

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	Nickel	2560	2500	102	90 - 110	P	10/28/2025	16:35	LB137677
	Potassium	25500	25000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Selenium	5090	5000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Silver	1280	1250	102	90 - 110	P	10/28/2025	16:35	LB137677
	Sodium	26400	25000	106	90 - 110	P	10/28/2025	16:35	LB137677
	Thallium	5040	5000	101	90 - 110	P	10/28/2025	16:35	LB137677
	Vanadium	2540	2500	102	90 - 110	P	10/28/2025	16:35	LB137677
	Zinc	2560	2500	102	90 - 110	P	10/28/2025	16:35	LB137677
CCV06	Aluminum	9680	10000	97	90 - 110	P	10/28/2025	17:27	LB137677
	Antimony	4940	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Arsenic	4960	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Barium	10000	10000	100	90 - 110	P	10/28/2025	17:27	LB137677
	Beryllium	264	250	106	90 - 110	P	10/28/2025	17:27	LB137677
	Cadmium	2520	2500	101	90 - 110	P	10/28/2025	17:27	LB137677
	Calcium	25000	25000	100	90 - 110	P	10/28/2025	17:27	LB137677
	Chromium	1010	1000	101	90 - 110	P	10/28/2025	17:27	LB137677
	Cobalt	2520	2500	101	90 - 110	P	10/28/2025	17:27	LB137677
	Copper	1260	1250	101	90 - 110	P	10/28/2025	17:27	LB137677
	Iron	4880	5000	98	90 - 110	P	10/28/2025	17:27	LB137677
	Lead	4960	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Magnesium	25000	25000	100	90 - 110	P	10/28/2025	17:27	LB137677
	Manganese	2540	2500	102	90 - 110	P	10/28/2025	17:27	LB137677
	Nickel	2510	2500	100	90 - 110	P	10/28/2025	17:27	LB137677
	Potassium	24500	25000	98	90 - 110	P	10/28/2025	17:27	LB137677
	Selenium	4970	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Silver	1260	1250	101	90 - 110	P	10/28/2025	17:27	LB137677
	Sodium	25300	25000	101	90 - 110	P	10/28/2025	17:27	LB137677
	Thallium	4770	5000	96	90 - 110	P	10/28/2025	17:27	LB137677
	Vanadium	2480	2500	99	90 - 110	P	10/28/2025	17:27	LB137677
	Zinc	2520	2500	101	90 - 110	P	10/28/2025	17:27	LB137677
CCV07	Aluminum	9740	10000	97	90 - 110	P	10/28/2025	18:17	LB137677
	Antimony	4970	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Arsenic	4970	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Barium	10200	10000	102	90 - 110	P	10/28/2025	18:17	LB137677

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM
Contract: AECO02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3434
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	258	250	103	90 - 110	P	10/28/2025	18:17	LB137677
	Cadmium	2520	2500	101	90 - 110	P	10/28/2025	18:17	LB137677
	Calcium	25200	25000	101	90 - 110	P	10/28/2025	18:17	LB137677
	Chromium	1010	1000	101	90 - 110	P	10/28/2025	18:17	LB137677
	Cobalt	2530	2500	101	90 - 110	P	10/28/2025	18:17	LB137677
	Copper	1270	1250	101	90 - 110	P	10/28/2025	18:17	LB137677
	Iron	4990	5000	100	90 - 110	P	10/28/2025	18:17	LB137677
	Lead	4950	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Magnesium	25100	25000	100	90 - 110	P	10/28/2025	18:17	LB137677
	Manganese	2570	2500	103	90 - 110	P	10/28/2025	18:17	LB137677
	Nickel	2530	2500	101	90 - 110	P	10/28/2025	18:17	LB137677
	Potassium	24500	25000	98	90 - 110	P	10/28/2025	18:17	LB137677
	Selenium	4970	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Silver	1260	1250	101	90 - 110	P	10/28/2025	18:17	LB137677
	Sodium	25200	25000	101	90 - 110	P	10/28/2025	18:17	LB137677
	Thallium	4740	5000	95	90 - 110	P	10/28/2025	18:17	LB137677
	Vanadium	2490	2500	100	90 - 110	P	10/28/2025	18:17	LB137677
	Zinc	2520	2500	101	90 - 110	P	10/28/2025	18:17	LB137677
CCV08	Aluminum	10800	10000	108	90 - 110	P	10/28/2025	19:06	LB137677
	Antimony	5100	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Arsenic	5110	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Barium	10500	10000	105	90 - 110	P	10/28/2025	19:06	LB137677
	Beryllium	269	250	108	90 - 110	P	10/28/2025	19:06	LB137677
	Cadmium	2600	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
	Calcium	26100	25000	104	90 - 110	P	10/28/2025	19:06	LB137677
	Chromium	1030	1000	103	90 - 110	P	10/28/2025	19:06	LB137677
	Cobalt	2610	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
	Copper	1300	1250	104	90 - 110	P	10/28/2025	19:06	LB137677
	Iron	5140	5000	103	90 - 110	P	10/28/2025	19:06	LB137677
	Lead	5090	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Magnesium	25900	25000	104	90 - 110	P	10/28/2025	19:06	LB137677
	Manganese	2670	2500	107	90 - 110	P	10/28/2025	19:06	LB137677
	Nickel	2600	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
	Potassium	25200	25000	101	90 - 110	P	10/28/2025	19:06	LB137677

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

Contract: AECO02

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3434

Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	5120	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Silver	1290	1250	104	90 - 110	P	10/28/2025	19:06	LB137677
	Sodium	26400	25000	106	90 - 110	P	10/28/2025	19:06	LB137677
	Thallium	4880	5000	98	90 - 110	P	10/28/2025	19:06	LB137677
	Vanadium	2590	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
	Zinc	2590	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
CCV09	Aluminum	9840	10000	98	90 - 110	P	10/28/2025	19:58	LB137677
	Antimony	4980	5000	100	90 - 110	P	10/28/2025	19:58	LB137677
	Arsenic	4990	5000	100	90 - 110	P	10/28/2025	19:58	LB137677
	Barium	10300	10000	104	90 - 110	P	10/28/2025	19:58	LB137677
	Beryllium	262	250	105	90 - 110	P	10/28/2025	19:58	LB137677
	Cadmium	2530	2500	101	90 - 110	P	10/28/2025	19:58	LB137677
	Calcium	25500	25000	102	90 - 110	P	10/28/2025	19:58	LB137677
	Chromium	1010	1000	101	90 - 110	P	10/28/2025	19:58	LB137677
	Cobalt	2540	2500	102	90 - 110	P	10/28/2025	19:58	LB137677
	Copper	1270	1250	102	90 - 110	P	10/28/2025	19:58	LB137677
	Iron	5120	5000	102	90 - 110	P	10/28/2025	19:58	LB137677
	Lead	4960	5000	99	90 - 110	P	10/28/2025	19:58	LB137677
	Magnesium	25300	25000	101	90 - 110	P	10/28/2025	19:58	LB137677
	Manganese	2620	2500	105	90 - 110	P	10/28/2025	19:58	LB137677
	Nickel	2530	2500	101	90 - 110	P	10/28/2025	19:58	LB137677
	Potassium	25600	25000	102	90 - 110	P	10/28/2025	19:58	LB137677
	Selenium	5000	5000	100	90 - 110	P	10/28/2025	19:58	LB137677
	Silver	1280	1250	102	90 - 110	P	10/28/2025	19:58	LB137677
	Sodium	27900	25000	112	90 - 110	P	10/28/2025	19:58	LB137677
	Thallium	4670	5000	93	90 - 110	P	10/28/2025	19:58	LB137677
	Vanadium	2520	2500	101	90 - 110	P	10/28/2025	19:58	LB137677
	Zinc	2560	2500	103	90 - 110	P	10/28/2025	19:58	LB137677
CCV10	Aluminum	9480	10000	95	90 - 110	P	10/28/2025	20:49	LB137677
	Antimony	4890	5000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Arsenic	4880	5000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Barium	10100	10000	101	90 - 110	P	10/28/2025	20:49	LB137677
	Beryllium	251	250	100	90 - 110	P	10/28/2025	20:49	LB137677
	Cadmium	2480	2500	99	90 - 110	P	10/28/2025	20:49	LB137677

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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
CCV10	Calcium	24800	25000	99	90 - 110	P	10/28/2025	20:49	LB137677
	Chromium	987	1000	99	90 - 110	P	10/28/2025	20:49	LB137677
	Cobalt	2490	2500	100	90 - 110	P	10/28/2025	20:49	LB137677
	Copper	1250	1250	100	90 - 110	P	10/28/2025	20:49	LB137677
	Iron	4970	5000	99	90 - 110	P	10/28/2025	20:49	LB137677
	Lead	4850	5000	97	90 - 110	P	10/28/2025	20:49	LB137677
	Magnesium	24400	25000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Manganese	2550	2500	102	90 - 110	P	10/28/2025	20:49	LB137677
	Nickel	2480	2500	99	90 - 110	P	10/28/2025	20:49	LB137677
	Potassium	24600	25000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Selenium	4880	5000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Silver	1230	1250	99	90 - 110	P	10/28/2025	20:49	LB137677
	Sodium	25800	25000	103	90 - 110	P	10/28/2025	20:49	LB137677
	Thallium	4470	5000	90	90 - 110	P	10/28/2025	20:49	LB137677
	Vanadium	2450	2500	98	90 - 110	P	10/28/2025	20:49	LB137677
	Zinc	2450	2500	98	90 - 110	P	10/28/2025	20:49	LB137677

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	7260	8000	91	90 - 110	P	10/29/2025	14:01	LB137697
	Antimony	3850	4000	96	90 - 110	P	10/29/2025	14:01	LB137697
	Arsenic	3760	4000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Barium	7490	8000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Beryllium	188	200	94	90 - 110	P	10/29/2025	14:01	LB137697
	Cadmium	1860	2000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Calcium	18700	20000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Chromium	770	800	96	90 - 110	P	10/29/2025	14:01	LB137697
	Cobalt	1880	2000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Copper	961	1000	96	90 - 110	P	10/29/2025	14:01	LB137697
	Iron	3790	4000	95	90 - 110	P	10/29/2025	14:01	LB137697
	Lead	3650	4000	91	90 - 110	P	10/29/2025	14:01	LB137697
	Magnesium	18700	20000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Manganese	1870	2000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Nickel	1880	2000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Potassium	18700	20000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Selenium	3780	4000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Silver	969	1000	97	90 - 110	P	10/29/2025	14:01	LB137697
	Sodium	18800	20000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Thallium	3970	4000	99	90 - 110	P	10/29/2025	14:01	LB137697
	Vanadium	1860	2000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Zinc	1900	2000	95	90 - 110	P	10/29/2025	14:01	LB137697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	103	100	103	80 - 120	P	10/29/2025	14:07	LB137697
	Antimony	51.5	50.0	103	80 - 120	P	10/29/2025	14:07	LB137697
	Arsenic	21.1	20.0	105	80 - 120	P	10/29/2025	14:07	LB137697
	Barium	105	100	105	80 - 120	P	10/29/2025	14:07	LB137697
	Beryllium	6.45	6.0	108	80 - 120	P	10/29/2025	14:07	LB137697
	Cadmium	5.83	6.0	97	80 - 120	P	10/29/2025	14:07	LB137697
	Calcium	2080	2000	104	80 - 120	P	10/29/2025	14:07	LB137697
	Chromium	10.3	10.0	102	80 - 120	P	10/29/2025	14:07	LB137697
	Cobalt	30.0	30.0	100	80 - 120	P	10/29/2025	14:07	LB137697
	Copper	22.0	20.0	110	80 - 120	P	10/29/2025	14:07	LB137697
	Iron	107	100	107	80 - 120	P	10/29/2025	14:07	LB137697
	Lead	11.7	12.0	98	80 - 120	P	10/29/2025	14:07	LB137697
	Magnesium	2160	2000	108	80 - 120	P	10/29/2025	14:07	LB137697
	Manganese	21.1	20.0	105	80 - 120	P	10/29/2025	14:07	LB137697
	Nickel	40.4	40.0	101	80 - 120	P	10/29/2025	14:07	LB137697
	Potassium	1880	2000	94	80 - 120	P	10/29/2025	14:07	LB137697
	Selenium	23.1	20.0	115	80 - 120	P	10/29/2025	14:07	LB137697
	Silver	10.6	10.0	106	80 - 120	P	10/29/2025	14:07	LB137697
	Sodium	2010	2000	100	80 - 120	P	10/29/2025	14:07	LB137697
	Thallium	46.3	40.0	116	80 - 120	P	10/29/2025	14:07	LB137697
	Vanadium	41.0	40.0	103	80 - 120	P	10/29/2025	14:07	LB137697
	Zinc	43.3	40.0	108	80 - 120	P	10/29/2025	14:07	LB137697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM
Contract: AECO02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3434
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9780	10000	98	90 - 110	P	10/29/2025	14:37	LB137697
	Antimony	4970	5000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Arsenic	4960	5000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Barium	9730	10000	97	90 - 110	P	10/29/2025	14:37	LB137697
	Beryllium	250	250	100	90 - 110	P	10/29/2025	14:37	LB137697
	Cadmium	2460	2500	99	90 - 110	P	10/29/2025	14:37	LB137697
	Calcium	24800	25000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Chromium	1010	1000	100	90 - 110	P	10/29/2025	14:37	LB137697
	Cobalt	2460	2500	98	90 - 110	P	10/29/2025	14:37	LB137697
	Copper	1240	1250	99	90 - 110	P	10/29/2025	14:37	LB137697
	Iron	4870	5000	97	90 - 110	P	10/29/2025	14:37	LB137697
	Lead	4900	5000	98	90 - 110	P	10/29/2025	14:37	LB137697
	Magnesium	24800	25000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Manganese	2460	2500	98	90 - 110	P	10/29/2025	14:37	LB137697
	Nickel	2460	2500	98	90 - 110	P	10/29/2025	14:37	LB137697
	Potassium	24100	25000	97	90 - 110	P	10/29/2025	14:37	LB137697
	Selenium	4930	5000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Silver	1240	1250	99	90 - 110	P	10/29/2025	14:37	LB137697
	Sodium	24400	25000	98	90 - 110	P	10/29/2025	14:37	LB137697
	Thallium	5060	5000	101	90 - 110	P	10/29/2025	14:37	LB137697
	Vanadium	2470	2500	99	90 - 110	P	10/29/2025	14:37	LB137697
	Zinc	2490	2500	100	90 - 110	P	10/29/2025	14:37	LB137697
CCV02	Aluminum	9400	10000	94	90 - 110	P	10/29/2025	15:43	LB137697
	Antimony	4870	5000	97	90 - 110	P	10/29/2025	15:43	LB137697
	Arsenic	4840	5000	97	90 - 110	P	10/29/2025	15:43	LB137697
	Barium	9610	10000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Beryllium	243	250	97	90 - 110	P	10/29/2025	15:43	LB137697
	Cadmium	2420	2500	97	90 - 110	P	10/29/2025	15:43	LB137697
	Calcium	24100	25000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Chromium	988	1000	99	90 - 110	P	10/29/2025	15:43	LB137697
	Cobalt	2420	2500	97	90 - 110	P	10/29/2025	15:43	LB137697
	Copper	1220	1250	98	90 - 110	P	10/29/2025	15:43	LB137697
	Iron	4870	5000	98	90 - 110	P	10/29/2025	15:43	LB137697
	Lead	4820	5000	96	90 - 110	P	10/29/2025	15:43	LB137697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM
Contract: AECO02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3434
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24200	25000	97	90 - 110	P	10/29/2025	15:43	LB137697
	Manganese	2390	2500	96	90 - 110	P	10/29/2025	15:43	LB137697
	Nickel	2430	2500	97	90 - 110	P	10/29/2025	15:43	LB137697
	Potassium	24000	25000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Selenium	4790	5000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Silver	1230	1250	98	90 - 110	P	10/29/2025	15:43	LB137697
	Sodium	23900	25000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Thallium	4740	5000	95	90 - 110	P	10/29/2025	15:43	LB137697
	Vanadium	2400	2500	96	90 - 110	P	10/29/2025	15:43	LB137697
	Zinc	2440	2500	98	90 - 110	P	10/29/2025	15:43	LB137697
CCV03	Aluminum	9730	10000	97	90 - 110	P	10/29/2025	16:37	LB137697
	Antimony	5120	5000	102	90 - 110	P	10/29/2025	16:37	LB137697
	Arsenic	5080	5000	102	90 - 110	P	10/29/2025	16:37	LB137697
	Barium	9730	10000	97	90 - 110	P	10/29/2025	16:37	LB137697
	Beryllium	249	250	100	90 - 110	P	10/29/2025	16:37	LB137697
	Cadmium	2510	2500	100	90 - 110	P	10/29/2025	16:37	LB137697
	Calcium	25000	25000	100	90 - 110	P	10/29/2025	16:37	LB137697
	Chromium	1030	1000	103	90 - 110	P	10/29/2025	16:37	LB137697
	Cobalt	2520	2500	101	90 - 110	P	10/29/2025	16:37	LB137697
	Copper	1270	1250	102	90 - 110	P	10/29/2025	16:37	LB137697
	Iron	5080	5000	102	90 - 110	P	10/29/2025	16:37	LB137697
	Lead	5020	5000	100	90 - 110	P	10/29/2025	16:37	LB137697
	Magnesium	25000	25000	100	90 - 110	P	10/29/2025	16:37	LB137697
	Manganese	2470	2500	99	90 - 110	P	10/29/2025	16:37	LB137697
	Nickel	2510	2500	101	90 - 110	P	10/29/2025	16:37	LB137697
	Potassium	25200	25000	101	90 - 110	P	10/29/2025	16:37	LB137697
	Selenium	5070	5000	101	90 - 110	P	10/29/2025	16:37	LB137697
	Silver	1280	1250	102	90 - 110	P	10/29/2025	16:37	LB137697
	Sodium	25300	25000	101	90 - 110	P	10/29/2025	16:37	LB137697
	Thallium	4740	5000	95	90 - 110	P	10/29/2025	16:37	LB137697
	Vanadium	2500	2500	100	90 - 110	P	10/29/2025	16:37	LB137697
	Zinc	2560	2500	102	90 - 110	P	10/29/2025	16:37	LB137697
CCV04	Aluminum	9640	10000	96	90 - 110	P	10/29/2025	17:27	LB137697
	Antimony	4930	5000	99	90 - 110	P	10/29/2025	17:27	LB137697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	Arsenic	4980	5000	100	90 - 110	P	10/29/2025	17:27	LB137697
	Barium	9640	10000	96	90 - 110	P	10/29/2025	17:27	LB137697
	Beryllium	262	250	105	90 - 110	P	10/29/2025	17:27	LB137697
	Cadmium	2500	2500	100	90 - 110	P	10/29/2025	17:27	LB137697
	Calcium	24600	25000	98	90 - 110	P	10/29/2025	17:27	LB137697
	Chromium	1020	1000	102	90 - 110	P	10/29/2025	17:27	LB137697
	Cobalt	2480	2500	99	90 - 110	P	10/29/2025	17:27	LB137697
	Copper	1250	1250	100	90 - 110	P	10/29/2025	17:27	LB137697
	Iron	4700	5000	94	90 - 110	P	10/29/2025	17:27	LB137697
	Lead	4950	5000	99	90 - 110	P	10/29/2025	17:27	LB137697
	Magnesium	25100	25000	101	90 - 110	P	10/29/2025	17:27	LB137697
	Manganese	2460	2500	99	90 - 110	P	10/29/2025	17:27	LB137697
	Nickel	2490	2500	100	90 - 110	P	10/29/2025	17:27	LB137697
	Potassium	23500	25000	94	90 - 110	P	10/29/2025	17:27	LB137697
	Selenium	4940	5000	99	90 - 110	P	10/29/2025	17:27	LB137697
	Silver	1250	1250	100	90 - 110	P	10/29/2025	17:27	LB137697
	Sodium	23700	25000	95	90 - 110	P	10/29/2025	17:27	LB137697
	Thallium	5310	5000	106	90 - 110	P	10/29/2025	17:27	LB137697
	Vanadium	2460	2500	98	90 - 110	P	10/29/2025	17:27	LB137697
	Zinc	2490	2500	100	90 - 110	P	10/29/2025	17:27	LB137697
CCV05	Aluminum	9470	10000	95	90 - 110	P	10/29/2025	18:03	LB137697
	Antimony	4830	5000	97	90 - 110	P	10/29/2025	18:03	LB137697
	Arsenic	4850	5000	97	90 - 110	P	10/29/2025	18:03	LB137697
	Barium	9570	10000	96	90 - 110	P	10/29/2025	18:03	LB137697
	Beryllium	252	250	101	90 - 110	P	10/29/2025	18:03	LB137697
	Cadmium	2440	2500	98	90 - 110	P	10/29/2025	18:03	LB137697
	Calcium	24400	25000	98	90 - 110	P	10/29/2025	18:03	LB137697
	Chromium	998	1000	100	90 - 110	P	10/29/2025	18:03	LB137697
	Cobalt	2430	2500	97	90 - 110	P	10/29/2025	18:03	LB137697
	Copper	1220	1250	98	90 - 110	P	10/29/2025	18:03	LB137697
	Iron	4780	5000	96	90 - 110	P	10/29/2025	18:03	LB137697
	Lead	4840	5000	97	90 - 110	P	10/29/2025	18:03	LB137697
	Magnesium	24700	25000	99	90 - 110	P	10/29/2025	18:03	LB137697
	Manganese	2440	2500	98	90 - 110	P	10/29/2025	18:03	LB137697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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	Nickel	2430	2500	97	90 - 110	P	10/29/2025	18:03	LB137697
	Potassium	23100	25000	92	90 - 110	P	10/29/2025	18:03	LB137697
	Selenium	4830	5000	96	90 - 110	P	10/29/2025	18:03	LB137697
	Silver	1220	1250	98	90 - 110	P	10/29/2025	18:03	LB137697
	Sodium	23200	25000	93	90 - 110	P	10/29/2025	18:03	LB137697
	Thallium	5070	5000	102	90 - 110	P	10/29/2025	18:03	LB137697
	Vanadium	2430	2500	97	90 - 110	P	10/29/2025	18:03	LB137697
	Zinc	2450	2500	98	90 - 110	P	10/29/2025	18:03	LB137697
CCV06	Aluminum	9450	10000	94	90 - 110	P	10/29/2025	18:55	LB137697
	Antimony	4740	5000	95	90 - 110	P	10/29/2025	18:55	LB137697
	Arsenic	4790	5000	96	90 - 110	P	10/29/2025	18:55	LB137697
	Barium	9690	10000	97	90 - 110	P	10/29/2025	18:55	LB137697
	Beryllium	253	250	101	90 - 110	P	10/29/2025	18:55	LB137697
	Cadmium	2470	2500	99	90 - 110	P	10/29/2025	18:55	LB137697
	Calcium	24500	25000	98	90 - 110	P	10/29/2025	18:55	LB137697
	Chromium	1010	1000	101	90 - 110	P	10/29/2025	18:55	LB137697
	Cobalt	2460	2500	98	90 - 110	P	10/29/2025	18:55	LB137697
	Copper	1190	1250	95	90 - 110	P	10/29/2025	18:55	LB137697
	Iron	4860	5000	97	90 - 110	P	10/29/2025	18:55	LB137697
	Lead	4920	5000	98	90 - 110	P	10/29/2025	18:55	LB137697
	Magnesium	24800	25000	99	90 - 110	P	10/29/2025	18:55	LB137697
	Manganese	2460	2500	98	90 - 110	P	10/29/2025	18:55	LB137697
	Nickel	2470	2500	99	90 - 110	P	10/29/2025	18:55	LB137697
	Potassium	26000	25000	104	90 - 110	P	10/29/2025	18:55	LB137697
	Selenium	4770	5000	95	90 - 110	P	10/29/2025	18:55	LB137697
	Silver	1240	1250	99	90 - 110	P	10/29/2025	18:55	LB137697
	Sodium	26300	25000	105	90 - 110	P	10/29/2025	18:55	LB137697
	Thallium	5490	5000	110	90 - 110	P	10/29/2025	18:55	LB137697
	Vanadium	2450	2500	98	90 - 110	P	10/29/2025	18:55	LB137697
	Zinc	2250	2500	90	90 - 110	P	10/29/2025	18:55	LB137697

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: AECOM SDG No.: Q3434
Contract: AECO02 Lab Code: ACE
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	0.17	0.2	83	70 - 130	CV	10/24/2025	09:32	LB137632
CRI01	Aluminum	97.3	100	97	65 - 135	P	10/24/2025	14:48	LB137662
	Antimony	54.2	50.0	108	65 - 135	P	10/24/2025	14:48	LB137662
	Arsenic	22.7	20.0	114	65 - 135	P	10/24/2025	14:48	LB137662
	Barium	101	100	102	65 - 135	P	10/24/2025	14:48	LB137662
	Beryllium	6.57	6.0	110	65 - 135	P	10/24/2025	14:48	LB137662
	Cadmium	5.93	6.0	99	65 - 135	P	10/24/2025	14:48	LB137662
	Calcium	2130	2000	106	65 - 135	P	10/24/2025	14:48	LB137662
	Chromium	10.6	10.0	106	65 - 135	P	10/24/2025	14:48	LB137662
	Cobalt	30.6	30.0	102	65 - 135	P	10/24/2025	14:48	LB137662
	Copper	23.2	20.0	116	65 - 135	P	10/24/2025	14:48	LB137662
	Iron	112	100	112	65 - 135	P	10/24/2025	14:48	LB137662
	Lead	12.1	12.0	101	65 - 135	P	10/24/2025	14:48	LB137662
	Magnesium	2130	2000	107	65 - 135	P	10/24/2025	14:48	LB137662
	Manganese	22.3	20.0	112	65 - 135	P	10/24/2025	14:48	LB137662
	Nickel	40.8	40.0	102	65 - 135	P	10/24/2025	14:48	LB137662
	Potassium	2020	2000	101	65 - 135	P	10/24/2025	14:48	LB137662
	Selenium	21.3	20.0	107	65 - 135	P	10/24/2025	14:48	LB137662
	Silver	11.4	10.0	114	65 - 135	P	10/24/2025	14:48	LB137662
	Sodium	1940	2000	97	65 - 135	P	10/24/2025	14:48	LB137662
	Thallium	46.2	40.0	116	65 - 135	P	10/24/2025	14:48	LB137662
	Vanadium	41.4	40.0	103	65 - 135	P	10/24/2025	14:48	LB137662
	Zinc	44.5	40.0	111	65 - 135	P	10/24/2025	14:48	LB137662
CRI01	Aluminum	112	100	112	65 - 135	P	10/28/2025	12:42	LB137677
	Antimony	52.2	50.0	104	65 - 135	P	10/28/2025	12:42	LB137677
	Arsenic	19.5	20.0	97	65 - 135	P	10/28/2025	12:42	LB137677
	Barium	103	100	103	65 - 135	P	10/28/2025	12:42	LB137677
	Beryllium	6.40	6.0	107	65 - 135	P	10/28/2025	12:42	LB137677
	Cadmium	5.75	6.0	96	65 - 135	P	10/28/2025	12:42	LB137677
	Calcium	2060	2000	103	65 - 135	P	10/28/2025	12:42	LB137677
	Chromium	10.4	10.0	104	65 - 135	P	10/28/2025	12:42	LB137677
	Cobalt	29.6	30.0	99	65 - 135	P	10/28/2025	12:42	LB137677
	Copper	22.0	20.0	110	65 - 135	P	10/28/2025	12:42	LB137677
	Iron	99.8	100	100	65 - 135	P	10/28/2025	12:42	LB137677
	Lead	11.5	12.0	96	65 - 135	P	10/28/2025	12:42	LB137677

Metals
- 2b -
CRDL STANDARD FOR AA & ICP

Client: <u>AECOM</u>	SDG No.: <u>Q3434</u>
Contract: <u>AECO02</u>	Lab Code: <u>ACE</u>
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	Magnesium	2100	2000	105	65 - 135	P	10/28/2025	12:42	LB137677
	Manganese	21.2	20.0	106	65 - 135	P	10/28/2025	12:42	LB137677
	Nickel	39.4	40.0	98	65 - 135	P	10/28/2025	12:42	LB137677
	Potassium	1920	2000	96	65 - 135	P	10/28/2025	12:42	LB137677
	Selenium	20.5	20.0	102	65 - 135	P	10/28/2025	12:42	LB137677
	Silver	10.6	10.0	106	65 - 135	P	10/28/2025	12:42	LB137677
	Sodium	1990	2000	99	65 - 135	P	10/28/2025	12:42	LB137677
	Thallium	39.4	40.0	98	65 - 135	P	10/28/2025	12:42	LB137677
	Vanadium	37.9	40.0	95	65 - 135	P	10/28/2025	12:42	LB137677
	Zinc	42.4	40.0	106	65 - 135	P	10/28/2025	12:42	LB137677
CRI01	Aluminum	97.1	100	97	65 - 135	P	10/29/2025	14:16	LB137697
	Antimony	49.9	50.0	100	65 - 135	P	10/29/2025	14:16	LB137697
	Arsenic	19.9	20.0	99	65 - 135	P	10/29/2025	14:16	LB137697
	Barium	102	100	102	65 - 135	P	10/29/2025	14:16	LB137697
	Beryllium	6.41	6.0	107	65 - 135	P	10/29/2025	14:16	LB137697
	Cadmium	5.84	6.0	97	65 - 135	P	10/29/2025	14:16	LB137697
	Calcium	2050	2000	103	65 - 135	P	10/29/2025	14:16	LB137697
	Chromium	10.3	10.0	103	65 - 135	P	10/29/2025	14:16	LB137697
	Cobalt	29.6	30.0	99	65 - 135	P	10/29/2025	14:16	LB137697
	Copper	21.6	20.0	108	65 - 135	P	10/29/2025	14:16	LB137697
	Iron	98.0	100	98	65 - 135	P	10/29/2025	14:16	LB137697
	Lead	11.6	12.0	97	65 - 135	P	10/29/2025	14:16	LB137697
	Magnesium	2120	2000	106	65 - 135	P	10/29/2025	14:16	LB137697
	Manganese	22.0	20.0	110	65 - 135	P	10/29/2025	14:16	LB137697
	Nickel	40.3	40.0	101	65 - 135	P	10/29/2025	14:16	LB137697
	Potassium	1850	2000	92	65 - 135	P	10/29/2025	14:16	LB137697
	Selenium	23.0	20.0	115	65 - 135	P	10/29/2025	14:16	LB137697
	Silver	11.0	10.0	110	65 - 135	P	10/29/2025	14:16	LB137697
	Sodium	1940	2000	97	65 - 135	P	10/29/2025	14:16	LB137697
	Thallium	44.2	40.0	111	65 - 135	P	10/29/2025	14:16	LB137697
	Vanadium	43.2	40.0	108	65 - 135	P	10/29/2025	14:16	LB137697
	Zinc	42.4	40.0	106	65 - 135	P	10/29/2025	14:16	LB137697



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB86	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	09:23	LB137632

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB83	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	09:30	LB137632
CCB84	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	10:11	LB137632
CCB85	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	10:43	LB137632
CCB86	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	11:14	LB137632
CCB87	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	11:38	LB137632

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	10/24/2025	14:43	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	14:43	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	14:43	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	14:43	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	14:43	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	14:43	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	14:43	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	14:43	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	14:43	LB137662
	Copper	4.60	+/-10	U	20.0	P	10/24/2025	14:43	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	14:43	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	14:43	LB137662
	Magnesium	244	+/-1000	U	2000	P	10/24/2025	14:43	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	14:43	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	14:43	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	14:43	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	14:43	LB137662
	Silver	1.62	+/-5	U	10.0	P	10/24/2025	14:43	LB137662
	Sodium	868	+/-1000	U	2000	P	10/24/2025	14:43	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	14:43	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	14:43	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	14:43	LB137662

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	16.3	+/-50	J	100	P	10/24/2025	15:16	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	15:16	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	15:16	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	15:16	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	15:16	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	15:16	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	15:16	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	15:16	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	15:16	LB137662
	Copper	4.60	+/-10	U	20.0	P	10/24/2025	15:16	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	15:16	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	15:16	LB137662
	Magnesium	244	+/-1000	U	2000	P	10/24/2025	15:16	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	15:16	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	15:16	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	15:16	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	15:16	LB137662
	Silver	1.62	+/-5	U	10.0	P	10/24/2025	15:16	LB137662
	Sodium	868	+/-1000	U	2000	P	10/24/2025	15:16	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	15:16	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	15:16	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	15:16	LB137662
CCB02	Aluminum	11.3	+/-50	U	100	P	10/24/2025	16:47	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	16:47	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	16:47	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	16:47	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	16:47	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	16:47	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	16:47	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	16:47	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	16:47	LB137662
	Copper	4.60	+/-10	U	20.0	P	10/24/2025	16:47	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	16:47	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	16:47	LB137662
	Magnesium	244	+/-1000	U	2000	P	10/24/2025	16:47	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	16:47	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	16:47	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	16:47	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	16:47	LB137662

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	10/24/2025	16:47	LB137662
	Sodium	868	+/-1000	U	2000	P	10/24/2025	16:47	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	16:47	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	16:47	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	16:47	LB137662
CCB03	Aluminum	11.3	+/-50	U	100	P	10/24/2025	18:33	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	18:33	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	18:33	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	18:33	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	18:33	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	18:33	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	18:33	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	18:33	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	18:33	LB137662
	Copper	4.60	+/-10	U	20.0	P	10/24/2025	18:33	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	18:33	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	18:33	LB137662
	Magnesium	244	+/-1000	U	2000	P	10/24/2025	18:33	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	18:33	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	18:33	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	18:33	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	18:33	LB137662
	Silver	1.62	+/-5	U	10.0	P	10/24/2025	18:33	LB137662
	Sodium	868	+/-1000	U	2000	P	10/24/2025	18:33	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	18:33	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	18:33	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	18:33	LB137662
CCB04	Aluminum	11.3	+/-50	U	100	P	10/24/2025	19:23	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	19:23	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	19:23	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	19:23	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	19:23	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	19:23	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	19:23	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	19:23	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	19:23	LB137662
	Copper	4.60	+/-10	U	20.0	P	10/24/2025	19:23	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	19:23	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	19:23	LB137662

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	10/24/2025	19:23	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	19:23	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	19:23	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	19:23	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	19:23	LB137662
	Silver	1.62	+/-5	U	10.0	P	10/24/2025	19:23	LB137662
	Sodium	999	+/-1000	J	2000	P	10/24/2025	19:23	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	19:23	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	19:23	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	19:23	LB137662
CCB05	Aluminum	11.3	+/-50	U	100	P	10/24/2025	20:10	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	20:10	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	20:10	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	20:10	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	20:10	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	20:10	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	20:10	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	20:10	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	20:10	LB137662
	Copper	4.82	+/-10	J	20.0	P	10/24/2025	20:10	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	20:10	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	20:10	LB137662
	Magnesium	244	+/-1000	U	2000	P	10/24/2025	20:10	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	20:10	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	20:10	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	20:10	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	20:10	LB137662
	Silver	1.62	+/-5	U	10.0	P	10/24/2025	20:10	LB137662
	Sodium	1260	+/-1000	J*	2000	P	10/24/2025	20:10	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	20:10	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	20:10	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	20:10	LB137662

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	10/28/2025	12:38	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	12:38	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	12:38	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	12:38	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	12:38	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	12:38	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	12:38	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	12:38	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	12:38	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	12:38	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	12:38	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	12:38	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	12:38	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	12:38	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	12:38	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	12:38	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	12:38	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	12:38	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	12:38	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	12:38	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	12:38	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	12:38	LB137677

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	23.5	+/-50	J	100	P	10/28/2025	13:08	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	13:08	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	13:08	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	13:08	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	13:08	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	13:08	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	13:08	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	13:08	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	13:08	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	13:08	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	13:08	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	13:08	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	13:08	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	13:08	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	13:08	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	13:08	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	13:08	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	13:08	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	13:08	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	13:08	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	13:08	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	13:08	LB137677
CCB02	Aluminum	14.8	+/-50	J	100	P	10/28/2025	14:05	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	14:05	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	14:05	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	14:05	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	14:05	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	14:05	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	14:05	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	14:05	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	14:05	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	14:05	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	14:05	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	14:05	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	14:05	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	14:05	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	14:05	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	14:05	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	14:05	LB137677

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	10/28/2025	14:05	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	14:05	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	14:05	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	14:05	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	14:05	LB137677
CCB03	Aluminum	11.3	+/-50	U	100	P	10/28/2025	14:57	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	14:57	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	14:57	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	14:57	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	14:57	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	14:57	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	14:57	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	14:57	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	14:57	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	14:57	LB137677
	Iron	30.0	+/-50	J	100	P	10/28/2025	14:57	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	14:57	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	14:57	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	14:57	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	14:57	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	14:57	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	14:57	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	14:57	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	14:57	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	14:57	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	14:57	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	14:57	LB137677
CCB04	Aluminum	11.3	+/-50	U	100	P	10/28/2025	15:49	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	15:49	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	15:49	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	15:49	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	15:49	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	15:49	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	15:49	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	15:49	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	15:49	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	15:49	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	15:49	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	15:49	LB137677

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	10/28/2025	15:49	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	15:49	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	15:49	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	15:49	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	15:49	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	15:49	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	15:49	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	15:49	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	15:49	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	15:49	LB137677
CCB05	Aluminum	11.3	+/-50	U	100	P	10/28/2025	16:39	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	16:39	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	16:39	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	16:39	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	16:39	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	16:39	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	16:39	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	16:39	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	16:39	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	16:39	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	16:39	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	16:39	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	16:39	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	16:39	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	16:39	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	16:39	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	16:39	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	16:39	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	16:39	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	16:39	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	16:39	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	16:39	LB137677
CCB06	Aluminum	11.3	+/-50	U	100	P	10/28/2025	17:32	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	17:32	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	17:32	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	17:32	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	17:32	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	17:32	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	17:32	LB137677

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	17:32	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	17:32	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	17:32	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	17:32	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	17:32	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	17:32	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	17:32	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	17:32	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	17:32	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	17:32	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	17:32	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	17:32	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	17:32	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	17:32	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	17:32	LB137677
CCB07	Aluminum	11.3	+/-50	U	100	P	10/28/2025	18:21	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	18:21	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	18:21	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	18:21	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	18:21	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	18:21	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	18:21	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	18:21	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	18:21	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	18:21	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	18:21	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	18:21	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	18:21	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	18:21	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	18:21	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	18:21	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	18:21	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	18:21	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	18:21	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	18:21	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	18:21	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	18:21	LB137677
CCB08	Aluminum	11.3	+/-50	U	100	P	10/28/2025	19:10	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	19:10	LB137677

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	19:10	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	19:10	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	19:10	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	19:10	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	19:10	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	19:10	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	19:10	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	19:10	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	19:10	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	19:10	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	19:10	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	19:10	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	19:10	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	19:10	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	19:10	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	19:10	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	19:10	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	19:10	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	19:10	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	19:10	LB137677
CCB09	Aluminum	11.3	+/-50	U	100	P	10/28/2025	20:02	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	20:02	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	20:02	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	20:02	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	20:02	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	20:02	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	20:02	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	20:02	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	20:02	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	20:02	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	20:02	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	20:02	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	20:02	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	20:02	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	20:02	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	20:02	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	20:02	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	20:02	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	20:02	LB137677

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	20:02	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	20:02	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	20:02	LB137677
CCB10	Aluminum	14.4	+/-50	J	100	P	10/28/2025	20:54	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	20:54	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	20:54	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	20:54	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	20:54	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	20:54	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	20:54	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	20:54	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	20:54	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	20:54	LB137677
	Iron	70.4	+/-50	J*	100	P	10/28/2025	20:54	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	20:54	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	20:54	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	20:54	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	20:54	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	20:54	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	20:54	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	20:54	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	20:54	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	20:54	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	20:54	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	20:54	LB137677

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	10/29/2025	14:12	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	14:12	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	14:12	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	14:12	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	14:12	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	14:12	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	14:12	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	14:12	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	14:12	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	14:12	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	14:12	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	14:12	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	14:12	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	14:12	LB137697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	10/29/2025	14:41	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	14:41	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	14:41	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	14:41	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	14:41	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	14:41	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	14:41	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	14:41	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	14:41	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	14:41	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
CCB02	Aluminum	11.3	+/-50	U	100	P	10/29/2025	15:48	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	15:48	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	15:48	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	15:48	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	15:48	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	15:48	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	15:48	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	15:48	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	15:48	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	15:48	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	15:48	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	15:48	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	15:48	LB137697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	10/29/2025	15:48	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
CCB03	Aluminum	11.3	+/-50	U	100	P	10/29/2025	16:41	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	16:41	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	16:41	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	16:41	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	16:41	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	16:41	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	16:41	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Iron	29.0	+/-50	J	100	P	10/29/2025	16:41	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	16:41	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	16:41	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
CCB04	Aluminum	11.3	+/-50	U	100	P	10/29/2025	17:31	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	17:31	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	17:31	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	17:31	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	17:31	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	17:31	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	17:31	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	17:31	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	17:31	LB137697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	17:31	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
CCB05	Aluminum	12.2	+/-50	J	100	P	10/29/2025	18:07	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	18:07	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	18:07	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	18:07	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	18:07	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	18:07	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	18:07	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	18:07	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	18:07	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	18:07	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
CCB06	Aluminum	11.3	+/-50	U	100	P	10/29/2025	19:04	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	19:04	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	19:04	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	19:04	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	19:04	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	19:04	LB137697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	19:04	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	19:04	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	19:04	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	19:04	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	19:04	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	19:04	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	19:04	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	19:04	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	19:04	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	19:04	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	19:04	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	19:04	LB137697

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3434

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170232BL		WATER		Batch Number:	PB170232		Prep Date:	10/23/2025	
	Mercury	0.076	<0.2	U	0.20	CV	10/24/2025	10:50	LB137632

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3434

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170225BL	WATER			Batch Number:	PB170225		Prep Date:	10/23/2025	
	Aluminum	5.67	<25	U	50.0	P	10/24/2025	15:20	LB137662
	Antimony	3.38	<12.5	U	25.0	P	10/24/2025	15:20	LB137662
	Arsenic	2.56	<5	U	10.0	P	10/24/2025	15:20	LB137662
	Barium	7.28	<25	U	50.0	P	10/24/2025	15:20	LB137662
	Beryllium	0.28	<1.5	U	3.00	P	10/24/2025	15:20	LB137662
	Cadmium	0.25	<1.5	U	3.00	P	10/24/2025	15:20	LB137662
	Calcium	117	<500	U	1000	P	10/24/2025	15:20	LB137662
	Chromium	1.06	<2.5	U	5.00	P	10/24/2025	15:20	LB137662
	Cobalt	1.13	<7.5	U	15.0	P	10/24/2025	15:20	LB137662
	Copper	2.30	<5	U	10.0	P	10/24/2025	15:20	LB137662
	Iron	11.7	<25	U	50.0	P	10/24/2025	15:20	LB137662
	Lead	1.15	<3	U	6.00	P	10/24/2025	15:20	LB137662
	Magnesium	122	<500	U	1000	P	10/24/2025	15:20	LB137662
	Manganese	2.97	<5	U	10.0	P	10/24/2025	15:20	LB137662
	Nickel	1.53	<10	U	20.0	P	10/24/2025	15:20	LB137662
	Potassium	459	<500	U	1000	P	10/24/2025	15:20	LB137662
	Selenium	4.82	<5	U	10.0	P	10/24/2025	15:20	LB137662
	Silver	0.81	<2.5	U	5.00	P	10/24/2025	15:20	LB137662
	Sodium	434	<500	U	1000	P	10/24/2025	15:20	LB137662
	Thallium	2.19	<10	U	20.0	P	10/24/2025	15:20	LB137662
	Vanadium	3.13	<10	U	20.0	P	10/24/2025	15:20	LB137662
	Zinc	8.33	<10	U	20.0	P	10/24/2025	15:20	LB137662

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>AECOM</u>	SDG No.: <u>Q3434</u>
Contract: <u>AECO02</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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	250000	255000	98	216000	294000	10/24/2025	14:52	LB137662
	Antimony	-3.33			-50	50	10/24/2025	14:52	LB137662
	Arsenic	8.44			-20	20	10/24/2025	14:52	LB137662
	Barium	-0.70	6.0	12	-94	106	10/24/2025	14:52	LB137662
	Beryllium	1.60			-6	6	10/24/2025	14:52	LB137662
	Cadmium	2.28	1.0	228	-5	7	10/24/2025	14:52	LB137662
	Calcium	237000	245000	97	208000	282000	10/24/2025	14:52	LB137662
	Chromium	50.0	52.0	96	42	62	10/24/2025	14:52	LB137662
	Cobalt	2.04			-30	30	10/24/2025	14:52	LB137662
	Copper	9.81	2.0	490	-18	22	10/24/2025	14:52	LB137662
	Iron	99200	101000	98	85600	116500	10/24/2025	14:52	LB137662
	Lead	3.20			-12	12	10/24/2025	14:52	LB137662
	Magnesium	251000	255000	98	216000	294000	10/24/2025	14:52	LB137662
	Manganese	7.87	7.0	112	-13	27	10/24/2025	14:52	LB137662
	Nickel	4.35	2.0	218	-38	42	10/24/2025	14:52	LB137662
	Potassium	111			0	0	10/24/2025	14:52	LB137662
	Selenium	7.23			-20	20	10/24/2025	14:52	LB137662
	Silver	2.11			-10	10	10/24/2025	14:52	LB137662
	Sodium	118			0	0	10/24/2025	14:52	LB137662
	Thallium	15.3			-40	40	10/24/2025	14:52	LB137662
	Vanadium	3.29			-40	40	10/24/2025	14:52	LB137662
	Zinc	4.78			-40	40	10/24/2025	14:52	LB137662
ICSAB01	Aluminum	257000	247000	104	209000	285000	10/24/2025	14:56	LB137662
	Antimony	610	618	99	525	711	10/24/2025	14:56	LB137662
	Arsenic	110	104	106	88.4	120	10/24/2025	14:56	LB137662
	Barium	506	537	94	437	637	10/24/2025	14:56	LB137662
	Beryllium	525	495	106	420	570	10/24/2025	14:56	LB137662
	Cadmium	1030	972	106	826	1120	10/24/2025	14:56	LB137662
	Calcium	243000	235000	103	199000	271000	10/24/2025	14:56	LB137662
	Chromium	566	542	104	460	624	10/24/2025	14:56	LB137662
	Cobalt	517	476	109	404	548	10/24/2025	14:56	LB137662
	Copper	499	511	98	434	588	10/24/2025	14:56	LB137662
	Iron	101000	99300	102	84400	114500	10/24/2025	14:56	LB137662
	Lead	51.7	49.0	106	37	61	10/24/2025	14:56	LB137662
	Magnesium	258000	248000	104	210000	286000	10/24/2025	14:56	LB137662
	Manganese	507	507	100	430	584	10/24/2025	14:56	LB137662
	Nickel	1030	954	108	810	1100	10/24/2025	14:56	LB137662
	Potassium	46.1			0	0	10/24/2025	14:56	LB137662
	Selenium	54.0	46.0	117	26	66	10/24/2025	14:56	LB137662
	Silver	213	201	106	170	232	10/24/2025	14:56	LB137662
	Sodium	89.3			0	0	10/24/2025	14:56	LB137662
	Thallium	129	108	119	68	148	10/24/2025	14:56	LB137662

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>AECOM</u>	SDG No.: <u>Q3434</u>
Contract: <u>AECO02</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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	Vanadium	499	491	102	417	565	10/24/2025	14:56	LB137662
	Zinc	1050	952	110	809	1095	10/24/2025	14:56	LB137662
ICSA01	Aluminum	230000	255000	90	216000	294000	10/28/2025	12:47	LB137677
	Antimony	-1.12			-50	50	10/28/2025	12:47	LB137677
	Arsenic	5.71			-20	20	10/28/2025	12:47	LB137677
	Barium	0.81	6.0	14	-94	106	10/28/2025	12:47	LB137677
	Beryllium	1.34			-6	6	10/28/2025	12:47	LB137677
	Cadmium	2.04	1.0	204	-5	7	10/28/2025	12:47	LB137677
	Calcium	225000	245000	92	208000	282000	10/28/2025	12:47	LB137677
	Chromium	48.4	52.0	93	42	62	10/28/2025	12:47	LB137677
	Cobalt	1.65			-30	30	10/28/2025	12:47	LB137677
	Copper	12.6	2.0	630	-18	22	10/28/2025	12:47	LB137677
	Iron	95500	101000	95	85600	116500	10/28/2025	12:47	LB137677
	Lead	4.98			-12	12	10/28/2025	12:47	LB137677
	Magnesium	236000	255000	92	216000	294000	10/28/2025	12:47	LB137677
	Manganese	-0.32	7.0	4	-13	27	10/28/2025	12:47	LB137677
	Nickel	6.84	2.0	342	-38	42	10/28/2025	12:47	LB137677
	Potassium	78.1			0	0	10/28/2025	12:47	LB137677
	Selenium	1.71			-20	20	10/28/2025	12:47	LB137677
	Silver	1.71			-10	10	10/28/2025	12:47	LB137677
	Sodium	154			0	0	10/28/2025	12:47	LB137677
	Thallium	5.36			-40	40	10/28/2025	12:47	LB137677
	Vanadium	4.12			-40	40	10/28/2025	12:47	LB137677
	Zinc	3.63			-40	40	10/28/2025	12:47	LB137677
ICSAB01	Aluminum	229000	247000	93	209000	285000	10/28/2025	12:51	LB137677
	Antimony	577	618	93	525	711	10/28/2025	12:51	LB137677
	Arsenic	104	104	100	88.4	120	10/28/2025	12:51	LB137677
	Barium	472	537	88	437	637	10/28/2025	12:51	LB137677
	Beryllium	489	495	99	420	570	10/28/2025	12:51	LB137677
	Cadmium	966	972	99	826	1120	10/28/2025	12:51	LB137677
	Calcium	223000	235000	95	199000	271000	10/28/2025	12:51	LB137677
	Chromium	530	542	98	460	624	10/28/2025	12:51	LB137677
	Cobalt	488	476	102	404	548	10/28/2025	12:51	LB137677
	Copper	473	511	93	434	588	10/28/2025	12:51	LB137677
	Iron	95900	99300	97	84400	114500	10/28/2025	12:51	LB137677
	Lead	52.4	49.0	107	37	61	10/28/2025	12:51	LB137677
	Magnesium	235000	248000	95	210000	286000	10/28/2025	12:51	LB137677
	Manganese	463	507	91	430	584	10/28/2025	12:51	LB137677
	Nickel	968	954	102	810	1100	10/28/2025	12:51	LB137677
	Potassium	18.5			0	0	10/28/2025	12:51	LB137677
	Selenium	46.1	46.0	100	26	66	10/28/2025	12:51	LB137677
	Silver	203	201	101	170	232	10/28/2025	12:51	LB137677

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>AECOM</u>	SDG No.: <u>Q3434</u>
Contract: <u>AECO02</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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	Sodium	129			0	0	10/28/2025	12:51	LB137677
	Thallium	102	108	94	68	148	10/28/2025	12:51	LB137677
	Vanadium	461	491	94	417	565	10/28/2025	12:51	LB137677
	Zinc	1000	952	105	809	1095	10/28/2025	12:51	LB137677
ICSA01	Aluminum	238000	255000	93	216000	294000	10/29/2025	14:21	LB137697
	Antimony	-3.02			-50	50	10/29/2025	14:21	LB137697
	Arsenic	4.77			-20	20	10/29/2025	14:21	LB137697
	Barium	5.72	6.0	95	-94	106	10/29/2025	14:21	LB137697
	Beryllium	1.70			-6	6	10/29/2025	14:21	LB137697
	Cadmium	0.66	1.0	66	-5	7	10/29/2025	14:21	LB137697
	Calcium	231000	245000	94	208000	282000	10/29/2025	14:21	LB137697
	Chromium	48.9	52.0	94	42	62	10/29/2025	14:21	LB137697
	Cobalt	1.62			-30	30	10/29/2025	14:21	LB137697
	Copper	14.1	2.0	705	-18	22	10/29/2025	14:21	LB137697
	Iron	95000	101000	94	85600	116500	10/29/2025	14:21	LB137697
	Lead	0.038			-12	12	10/29/2025	14:21	LB137697
	Magnesium	246000	255000	96	216000	294000	10/29/2025	14:21	LB137697
	Manganese	7.78	7.0	111	-13	27	10/29/2025	14:21	LB137697
	Nickel	4.85	2.0	242	-38	42	10/29/2025	14:21	LB137697
	Potassium	22.1			0	0	10/29/2025	14:21	LB137697
	Selenium	1.76			-20	20	10/29/2025	14:21	LB137697
	Silver	0.89			-10	10	10/29/2025	14:21	LB137697
	Sodium	125			0	0	10/29/2025	14:21	LB137697
	Thallium	10.3			-40	40	10/29/2025	14:21	LB137697
	Vanadium	4.98			-40	40	10/29/2025	14:21	LB137697
	Zinc	3.72			-40	40	10/29/2025	14:21	LB137697
ICSAB01	Aluminum	236000	247000	96	209000	285000	10/29/2025	14:25	LB137697
	Antimony	580	618	94	525	711	10/29/2025	14:25	LB137697
	Arsenic	105	104	101	88.4	120	10/29/2025	14:25	LB137697
	Barium	478	537	89	437	637	10/29/2025	14:25	LB137697
	Beryllium	501	495	101	420	570	10/29/2025	14:25	LB137697
	Cadmium	963	972	99	826	1120	10/29/2025	14:25	LB137697
	Calcium	229000	235000	97	199000	271000	10/29/2025	14:25	LB137697
	Chromium	538	542	99	460	624	10/29/2025	14:25	LB137697
	Cobalt	486	476	102	404	548	10/29/2025	14:25	LB137697
	Copper	474	511	93	434	588	10/29/2025	14:25	LB137697
	Iron	94700	99300	95	84400	114500	10/29/2025	14:25	LB137697
	Lead	47.4	49.0	97	37	61	10/29/2025	14:25	LB137697
	Magnesium	244000	248000	98	210000	286000	10/29/2025	14:25	LB137697
	Manganese	479	507	94	430	584	10/29/2025	14:25	LB137697
	Nickel	968	954	102	810	1100	10/29/2025	14:25	LB137697
	Potassium	-81.1			0	0	10/29/2025	14:25	LB137697

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>AECOM</u>	SDG No.: <u>Q3434</u>
Contract: <u>AECO02</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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	Selenium	51.1	46.0	111	26	66	10/29/2025	14:25	LB137697
	Silver	202	201	100	170	232	10/29/2025	14:25	LB137697
	Sodium	95.8			0	0	10/29/2025	14:25	LB137697
	Thallium	105	108	97	68	148	10/29/2025	14:25	LB137697
	Vanadium	469	491	96	417	565	10/29/2025	14:25	LB137697
	Zinc	999	952	105	809	1095	10/29/2025	14:25	LB137697



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>AECOM</u>	level: <u>low</u>	sdg no.: <u>Q3434</u>
contract: <u>AECO02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3420-05</u>	client id: <u>COMPOSITEMS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3420-05MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	2560		1360		1000	120		P
Antimony	ug/L	75 - 125	507		25.0	U	400	127	N	P
Arsenic	ug/L	75 - 125	563		51.5		400	128	N	P
Barium	ug/L	75 - 125	111		50.0	U	100	111		P
Beryllium	ug/L	75 - 125	96.0		3.00	U	100	96		P
Cadmium	ug/L	75 - 125	108		3.00	U	100	108		P
Calcium	ug/L	75 - 125	1360		809	J	500	110		P
Chromium	ug/L	75 - 125	221		15.9		200	103		P
Cobalt	ug/L	75 - 125	108		15.0	U	100	108		P
Copper	ug/L	75 - 125	149		7.37	J	150	94		P
Iron	ug/L	75 - 125	2550		473		1500	138	N	P
Lead	ug/L	75 - 125	492		1.84	J	500	98		P
Magnesium	ug/L	75 - 125	1640		642	J	1000	100		P
Manganese	ug/L	75 - 125	112		10.1		100	102		P
Nickel	ug/L	75 - 125	282		15.0	J	250	107		P
Potassium	ug/L	75 - 125	30200		11400		5000	378	N	P
Selenium	ug/L	75 - 125	1880		492		1000	139	N	P
Silver	ug/L	75 - 125	55.1		5.00	U	37.5	147	N	P
Sodium	ug/L	75 - 125	5870000	D	6230000	D	1500	-24427		P
Thallium	ug/L	75 - 125	1020		20.0	U	1000	102		P
Vanadium	ug/L	75 - 125	161		20.0	U	150	107		P
Zinc	ug/L	75 - 125	413		266		100	146	N	P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>AECOM</u>	level: <u>low</u>	sdg no.: <u>Q3434</u>
contract: <u>AECO02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3420-05</u>	client id: <u>COMPOSITEMSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3420-05MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	2410		1360		1000	105		P
Antimony	ug/L	75 - 125	460		25.0	U	400	115		P
Arsenic	ug/L	75 - 125	513		51.5		400	115		P
Barium	ug/L	75 - 125	99.6		50.0	U	100	100		P
Beryllium	ug/L	75 - 125	81.9		3.00	U	100	82		P
Cadmium	ug/L	75 - 125	97.2		3.00	U	100	97		P
Calcium	ug/L	75 - 125	1300		809	J	500	97		P
Chromium	ug/L	75 - 125	200		15.9		200	92		P
Cobalt	ug/L	75 - 125	97.6		15.0	U	100	98		P
Copper	ug/L	75 - 125	135		7.37	J	150	85		P
Iron	ug/L	75 - 125	2420		473		1500	130	N	P
Lead	ug/L	75 - 125	441		1.84	J	500	88		P
Magnesium	ug/L	75 - 125	1500		642	J	1000	86		P
Manganese	ug/L	75 - 125	101		10.1		100	91		P
Nickel	ug/L	75 - 125	255		15.0	J	250	96		P
Potassium	ug/L	75 - 125	32500		11400		5000	422	N	P
Selenium	ug/L	75 - 125	1760		492		1000	127	N	P
Silver	ug/L	75 - 125	49.9		5.00	U	37.5	133	N	P
Sodium	ug/L	75 - 125	5840000	D	6230000	D	1500	-26205		P
Thallium	ug/L	75 - 125	931		20.0	U	1000	93		P
Vanadium	ug/L	75 - 125	144		20.0	U	150	96		P
Zinc	ug/L	75 - 125	401		266		100	134	N	P



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

metals
- 5a -
MATRIX SPIKE SUMMARY

client: AECOM

contract: AECO02

matrix: Water

Percent Solids for Sample: NA

level: low

sample id: Q3434-02

Spiked ID: Q3434-02MS

sdg no.: Q3434

lab code: ACE

client id: PR132-WC2-20251022MS

Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.65		1.03		4.0	91		CV



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

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: AECOM

contract: AECO02

matrix: Water

Percent Solids for Sample: NA

level: low

sample id: Q3434-02

Spiked ID: Q3434-02MSD

sdg no.: Q3434

lab code: ACE

client id: PR132-WC2-20251022MSD

Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.62		1.03		4.0	90		CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: <u>AECOM</u>	SDG No.: <u>Q3434</u>	
Contract: <u>AECO02</u>	Lab Code: <u>ACE</u>	
Matrix: <u>Water</u>	Level: <u>LOW</u>	Client ID: <u>COMPOSITEA</u>
Sample ID: <u>Q3420-05</u>	Spiked ID: <u>Q3420-05A</u>	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	452		25.0	U	400	113		P
Arsenic	ug/L	75 - 125	505		51.5		400	113		P
Iron	ug/L	75 - 125	2360		473		1500	126	N	P
Potassium	ug/L	75 - 125	31000		11400		5000	393	N	P
Selenium	ug/L	75 - 125	1690		492		1000	120		P
Silver	ug/L	75 - 125	48.8		5.00	U	37.5	130	N	P
Zinc	ug/L	75 - 125	376		266		100	110		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE
Matrix: Water **Sample ID:** Q3420-05 **Client ID:** COMPOSITEDUP
Percent Solids for Sample: NA **Duplicate ID** Q3420-05DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1360		1400		3		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	51.5		52.1		1		P
Barium	ug/L	20	50.0	U	50.0	U			P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	809	J	816	J	1		P
Chromium	ug/L	20	15.9		16.1		1		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	7.37	J	7.41	J	1		P
Iron	ug/L	20	473		470		1		P
Lead	ug/L	20	1.84	J	2.17	J	16		P
Magnesium	ug/L	20	642	J	652	J	2		P
Manganese	ug/L	20	10.1		10.1		0		P
Nickel	ug/L	20	15.0	J	14.8	J	1		P
Potassium	ug/L	20	11400		18000		45	*	P
Selenium	ug/L	20	492		491		0		P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	6230000	D	5950000	D	5		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	4.20	J	200.0		P
Zinc	ug/L	20	266		271		2		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q3434
Contract: AECO02 **Lab Code:** ACE
Matrix: Water **Sample ID:** Q3420-05MS **Client ID:** COMPOSITEMSD
Percent Solids for Sample: NA **Duplicate ID** Q3420-05MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	2560		2410		6		P
Antimony	ug/L	20	507		460		10		P
Arsenic	ug/L	20	563		513		9		P
Barium	ug/L	20	111		99.6		11		P
Beryllium	ug/L	20	96.0		81.9		16		P
Cadmium	ug/L	20	108		97.2		11		P
Calcium	ug/L	20	1360		1300		5		P
Chromium	ug/L	20	221		200		10		P
Cobalt	ug/L	20	108		97.6		10		P
Copper	ug/L	20	149		135		10		P
Iron	ug/L	20	2550		2420		5		P
Lead	ug/L	20	492		441		11		P
Magnesium	ug/L	20	1640		1500		9		P
Manganese	ug/L	20	112		101		10		P
Nickel	ug/L	20	282		255		10		P
Potassium	ug/L	20	30200		32500		7		P
Selenium	ug/L	20	1880		1760		7		P
Silver	ug/L	20	55.1		49.9		10		P
Sodium	ug/L	20	5870000	D	5840000	D	1		P
Thallium	ug/L	20	1020		931		9		P
Vanadium	ug/L	20	161		144		11		P
Zinc	ug/L	20	413		401		3		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>AECOM</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3434</u>
Contract:	<u>AECO02</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3434-02</u>	Client ID:	<u>PR132-WC2-20251022DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3434-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	1.03		1.04		1		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>AECOM</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3434</u>
Contract:	<u>AECO02</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3434-02MS</u>	Client ID:	<u>PR132-WC2-20251022MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3434-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	4.65		4.62		1		CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>AECOM</u>	SDG No.:	<u>Q3434</u>
Contract:	<u>AECO02</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170225BS							
Aluminum	ug/L	1000	1000		100	80 - 120	P
Antimony	ug/L	400	411		103	80 - 120	P
Arsenic	ug/L	400	393		98	80 - 120	P
Barium	ug/L	100	102		102	80 - 120	P
Beryllium	ug/L	100	103		103	80 - 120	P
Cadmium	ug/L	100	95.9		96	80 - 120	P
Calcium	ug/L	500	517	J	103	80 - 120	P
Chromium	ug/L	200	202		101	80 - 120	P
Cobalt	ug/L	100	98.6		99	80 - 120	P
Copper	ug/L	150	159		106	80 - 120	P
Iron	ug/L	1500	1520		101	80 - 120	P
Lead	ug/L	500	481		96	80 - 120	P
Magnesium	ug/L	1000	1010		101	80 - 120	P
Manganese	ug/L	100	105		105	80 - 120	P
Nickel	ug/L	250	248		99	80 - 120	P
Potassium	ug/L	5000	4850		97	80 - 120	P
Selenium	ug/L	1000	997		100	80 - 120	P
Silver	ug/L	37.5	38.5		103	80 - 120	P
Sodium	ug/L	1500	1390		93	80 - 120	P
Thallium	ug/L	1000	981		98	80 - 120	P
Vanadium	ug/L	150	152		101	80 - 120	P
Zinc	ug/L	100	104		104	80 - 120	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170232BS Mercury	ug/L	4.0	3.75		94	80 - 120	CV

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

COMPOSITEL

Lab Name: Alliance **Contract:** AECO02
Lab Code: ACE **Lb No.:** lb137697 **Lab Sample ID :** Q3420-05L **SDG No.:** Q3434
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
Aluminum	1360		1520		12		P
Antimony	25.0	U	125	U			P
Arsenic	51.5		55.6		8		P
Barium	50.0	U	250	U			P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	809	J	976	J	21		P
Chromium	15.9		19.1	J	20		P
Cobalt	15.0	U	75.0	U			P
Copper	7.37	J	50.0	U	100.0		P
Iron	473		476		1		P
Lead	1.84	J	30.0	U	100.0		P
Magnesium	642	J	761	J	19		P
Manganese	10.1		50.0	U	100.0		P
Nickel	15.0	J	17.2	J	15		P
Potassium	11400		34800		207		P
Selenium	492		468		5		P
Silver	5.00	U	25.0	U			P
Sodium	6230000	D	6360000	D	2		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	266		272		2		P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

PR132-WC2-20251022L

Lab Name: Alliance

Contract: AECO02

Lab Code: ACE

Lb No.: lb137632

Lab Sample ID : Q3434-02L

SDG No.: Q3434

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	1.03	0.78 J	24		CV



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement 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

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

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

- 13 -

SAMPLE PREPARATION SUMMARY

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170225							
PB170225BL	PB170225BL	MB	WATER	10/23/2025	50.0	25.0	
PB170225BS	PB170225BS	LCS	WATER	10/23/2025	50.0	25.0	
Q3420-05DUP	COMPOSITEDUP	DUP	WATER	10/23/2025	50.0	25.0	
Q3420-05MS	COMPOSITEMS	MS	WATER	10/23/2025	50.0	25.0	
Q3420-05MSD	COMPOSITEMSD	MSD	WATER	10/23/2025	50.0	25.0	
Q3434-02	PR132-WC2-20251022	SAM	WATER	10/23/2025	50.0	25.0	

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: AECOM

SDG No.: Q3434

Contract: AECO02

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170232							
PB170232BL	PB170232BL	MB	WATER	10/23/2025	30.0	30.0	
PB170232BS	PB170232BS	LCS	WATER	10/23/2025	30.0	30.0	
Q3434-02	PR132-WC2-20251022	SAM	WATER	10/23/2025	30.0	30.0	
Q3434-02DUP	PR132-WC2-20251022DUP	DUP	WATER	10/23/2025	30.0	30.0	
Q3434-02MS	PR132-WC2-20251022MS	MS	WATER	10/23/2025	30.0	30.0	
Q3434-02MSD	PR132-WC2-20251022MSD	MSD	WATER	10/23/2025	30.0	30.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: AECOM

Contract: AECO02

Lab code: ACE

Sdg no.: Q3434

Instrument id number: _____

Method: _____

Run number: LB137632

Start date: 10/24/2025

End date: 10/24/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0858	HG
S0.2	S0.2	1	0901	HG
S2.5	S2.5	1	0903	HG
S5	S5	1	0905	HG
S7.5	S7.5	1	0908	HG
S10	S10	1	0910	HG
ICV86	ICV86	1	0920	HG
ICB86	ICB86	1	0923	HG
CCV83	CCV83	1	0925	HG
CCB83	CCB83	1	0930	HG
CRA	CRA	1	0932	HG
CCV84	CCV84	1	1009	HG
CCB84	CCB84	1	1011	HG
CCV85	CCV85	1	1040	HG
CCB85	CCB85	1	1043	HG
PB170232BL	PB170232BL	1	1050	HG
PB170232BS	PB170232BS	1	1052	HG
Q3434-02	PR132-WC2-20251022	1	1101	HG
Q3434-02DUP	PR132-WC2-20251022DUP	1	1104	HG
Q3434-02MS	PR132-WC2-20251022MS	1	1106	HG
CCV86	CCV86	1	1112	HG
CCB86	CCB86	1	1114	HG
Q3434-02MSD	PR132-WC2-20251022MSD	1	1117	HG
Q3434-02L	PR132-WC2-20251022L	5	1129	HG
CCV87	CCV87	1	1133	HG
CCB87	CCB87	1	1138	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: AECOM

Contract: AECO02

Lab code: ACE

Sdg no.: Q3434

Instrument id number: _____

Method: _____

Run number: LB137662

Start date: 10/24/2025

End date: 10/24/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1407	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	1412	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	1416	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	1420	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	1424	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	1429	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	1433	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	1438	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	1443	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	1448	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	1452	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	1456	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	1512	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	1516	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170225BL	PB170225BL	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170225BS	PB170225BS	1	1524	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3434-02	PR132-WC2-20251022	1	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1632	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	1647	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1829	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1833	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1919	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1923	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	2006	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2010	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
- 14 -
ANALYSIS RUN LOG

Client: AECOM

Contract: AECO02

Lab code: ACE

Sdg no.: Q3434

Instrument id number: _____

Method: _____

Run number: LB137677

Start date: 10/28/2025

End date: 10/28/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1152	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	1156	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	1201	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	1205	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	1209	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	1213	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	1230	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	1234	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	1238	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	1242	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	1247	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	1251	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	1303	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	1308	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1401	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	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1453	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1457	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1545	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1549	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3434-02	PR132-WC2-20251022	5	1610	Na
CCV05	CCV05	1	1635	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05DUP	COMPOSITEDUP	10	1710	Na
Q3420-05L	COMPOSITEL	50	1715	Na
Q3420-05MS	COMPOSITEMS	10	1719	Na
Q3420-05MSD	COMPOSITEMSD	10	1723	Na
CCV06	CCV06	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1732	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1817	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1821	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1906	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1910	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	1958	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2002	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2049	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2054	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
- 14 -
ANALYSIS RUN LOG

Client: AECOM

Contract: AECO02

Lab code: ACE

Sdg no.: Q3434

Instrument id number: _____

Method: _____

Run number: LB137697

Start date: 10/29/2025

End date: 10/29/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1336	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	1340	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	1344	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	1349	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	1353	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	1357	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	1401	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	1407	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	1412	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	1416	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	1421	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	1425	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	1437	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	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1543	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	1548	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1637	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1641	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1731	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1803	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1807	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05DUP	COMPOSITEDUP	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05L	COMPOSITEL	5	1820	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05MS	COMPOSITEMS	1	1825	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05MSD	COMPOSITEMSD	1	1829	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05A	COMPOSITEA	1	1833	Ag,As,Fe,K,Sb,Se,Zn
CCV06	CCV06	1	1855	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1904	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn