

LAB CHRONICLE

OrderID:	Q3376	OrderDate:	10/17/2025 10:34:00 AM
Client:	AECOM	Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC -
Contact:	Rob Forstner	Location:	60993705-1719208 Soil, VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3376-01	PR132-S05-057082-2 0251016	SOIL			10/16/25			10/16/25
			Mercury	7471B		10/20/25	10/22/25	
			Metals ICP-TAL	6020B		10/20/25	10/22/25	
Q3376-02	PR132-DP01-2025101 6	SOIL			10/16/25			10/16/25
			Mercury	7471B		10/20/25	10/22/25	
			Metals ICP-TAL	6020B		10/20/25	10/22/25	
Q3376-03	PR132-COMP2-20251 016	SOIL			10/16/25			10/16/25
			Mercury	7471B		10/20/25	10/22/25	
			Metals ICP-TAL	6020B		10/20/25	10/22/25	
Q3376-04	PR132-S12-047072-2 0251016	SOIL			10/16/25			10/16/25
			Mercury	7471B		10/20/25	10/22/25	
			Metals ICP-TAL	6020B		10/20/25	10/22/25	
Q3376-05	PR132-S12-020047-2 0251016	SOIL			10/16/25			10/16/25
			Mercury	7471B		10/20/25	10/22/25	
			Metals ICP-TAL	6020B		10/20/25	10/22/25	
Q3376-07	PR132-FB01-2025101 6	Water			10/16/25			10/16/25
			Mercury	7470A		10/20/25	10/20/25	
			Metals ICP-TAL	6010D		10/21/25	10/21/25	

Hit Summary Sheet
SW-846

SDG No.: Q3376 **Order ID:** Q3376
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-S05-057082-20251016								
Q3376-01	PR132-S05-057082-20251016	SOIL	Aluminum	10100		0.56	3.12	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Antimony	0.28	J	0.070	0.31	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Arsenic	42.0		0.019	0.16	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Barium	282		0.051	1.56	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Beryllium	0.77		0.050	0.16	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Cadmium	8.61		0.028	0.16	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Calcium	5060		7.46	77.9	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Chromium	351	D	0.20	1.56	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Cobalt	9.69		0.014	0.16	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Copper	371		0.10	0.31	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Iron	28400		1.43	7.79	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Lead	456		0.050	0.16	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Magnesium	6320		3.01	77.9	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Manganese	250		0.053	0.16	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Nickel	52.6		0.067	0.16	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Mercury	6.30	D	0.13	0.23	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Potassium	2250		5.98	77.9	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Selenium	2.46		0.44	0.78	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Silver	6.19		0.040	0.16	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Sodium	5870		10.9	77.9	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Thallium	0.41		0.022	0.16	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Vanadium	41.3		0.017	0.78	mg/Kg
Q3376-01	PR132-S05-057082-20251016	SOIL	Zinc	535		0.14	0.78	mg/Kg
Client ID : PR132-DP01-20251016								
Q3376-02	PR132-DP01-20251016	SOIL	Aluminum	10700		0.60	3.33	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Antimony	0.28	J	0.075	0.33	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Arsenic	34.6		0.020	0.17	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Barium	270		0.055	1.67	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Beryllium	0.84		0.053	0.17	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Cadmium	7.63		0.030	0.17	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Calcium	3690		7.98	83.3	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Chromium	320	D	0.22	1.67	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Cobalt	9.61		0.015	0.17	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Copper	347		0.11	0.33	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Iron	27700		1.53	8.33	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Lead	499		0.053	0.17	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Magnesium	6360		3.21	83.3	mg/Kg

Hit Summary Sheet
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SDG No.:	Q3376	Order ID:	Q3376
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
Q3376-02	PR132-DP01-20251016	SOIL	Manganese	252		0.057	0.17	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Nickel	52.2		0.072	0.17	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Mercury	25.8	D	0.56	1.00	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Potassium	2370		6.40	83.3	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Selenium	2.56		0.47	0.83	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Silver	6.61		0.043	0.17	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Sodium	6390		11.7	83.3	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Thallium	0.41		0.023	0.17	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Vanadium	41.8		0.018	0.83	mg/Kg
Q3376-02	PR132-DP01-20251016	SOIL	Zinc	551		0.15	0.83	mg/Kg

Client ID : PR132-COMP2-20251016

Q3376-03	PR132-COMP2-20251016	SOIL	Aluminum	14100		0.59	3.27	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Antimony	0.25	J	0.074	0.33	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Arsenic	66.5		0.020	0.16	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Barium	459		0.054	1.64	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Beryllium	1.14		0.052	0.16	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Cadmium	12.8		0.029	0.16	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Calcium	6460		7.84	81.8	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Chromium	341	D	0.21	1.64	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Cobalt	12.6		0.015	0.16	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Copper	422		0.11	0.33	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Iron	35800		1.50	8.18	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Lead	474		0.052	0.16	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Magnesium	7840		3.16	81.8	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Manganese	402		0.056	0.16	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Nickel	53.6		0.070	0.16	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Mercury	4.61	D	0.13	0.23	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Potassium	3110		6.28	81.8	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Selenium	3.31		0.46	0.82	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Silver	5.76		0.043	0.16	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Sodium	7470		11.5	81.8	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Thallium	0.50		0.023	0.16	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Vanadium	51.8		0.018	0.82	mg/Kg
Q3376-03	PR132-COMP2-20251016	SOIL	Zinc	576		0.15	0.82	mg/Kg

Client ID : PR132-S12-047072-20251016

Q3376-04	PR132-S12-047072-20251016	SOIL	Aluminum	13700		0.60	3.30	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Antimony	0.43		0.074	0.33	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Arsenic	45.0		0.020	0.17	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Barium	271		0.055	1.65	mg/Kg

Hit Summary Sheet
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SDG No.:	Q3376	Order ID:	Q3376
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
Q3376-04	PR132-S12-047072-20251016	SOIL	Beryllium	1.12		0.053	0.17	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Cadmium	15.3		0.030	0.17	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Calcium	8480		7.91	82.6	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Chromium	532	D	0.22	1.65	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Cobalt	13.6		0.015	0.17	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Copper	495		0.11	0.33	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Iron	37400		1.52	8.26	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Lead	457		0.053	0.17	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Magnesium	8580		3.19	82.6	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Manganese	335		0.056	0.17	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Nickel	91.4		0.071	0.17	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Mercury	6.51	D	0.13	0.23	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Potassium	3180		6.34	82.6	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Selenium	2.49		0.46	0.83	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Silver	5.64		0.043	0.17	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Sodium	10200		11.6	82.6	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Thallium	0.43		0.023	0.17	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Vanadium	88.2		0.018	0.83	mg/Kg
Q3376-04	PR132-S12-047072-20251016	SOIL	Zinc	700		0.15	0.83	mg/Kg

Client ID : PR132-S12-020047-20251016

Q3376-05	PR132-S12-020047-20251016	SOIL	Aluminum	6330		0.45	2.50	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Antimony	0.080	J	0.056	0.25	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Arsenic	7.86		0.015	0.13	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Barium	52.4		0.041	1.25	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Beryllium	0.74		0.040	0.13	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Cadmium	1.03		0.022	0.13	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Calcium	4870		5.98	62.4	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Chromium	49.4		0.032	0.25	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Cobalt	8.16		0.011	0.13	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Copper	103		0.081	0.25	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Iron	17500		1.15	6.24	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Lead	235		0.040	0.13	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Magnesium	7170		2.41	62.4	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Manganese	199		0.042	0.13	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Nickel	56.0		0.054	0.13	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Mercury	5.14	D	0.097	0.18	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Potassium	1500		4.79	62.4	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Selenium	0.59	J	0.35	0.62	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Silver	1.80		0.032	0.13	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Sodium	4580		8.76	62.4	mg/Kg

Hit Summary Sheet
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SDG No.: Q3376

Order ID: Q3376

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
Q3376-05	PR132-S12-020047-20251016	SOIL	Thallium	0.22		0.017	0.13	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Vanadium	20.6		0.014	0.62	mg/Kg
Q3376-05	PR132-S12-020047-20251016	SOIL	Zinc	259		0.11	0.62	mg/Kg



SAMPLE DATA

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-S05-057082-20251016
Lab Sample ID: Q3376-01
Level (low/med): low

Date Collected: 10/16/25
Date Received: 10/16/25
SDG No.: Q3376
Matrix: SOIL
% Solid: 53.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	10100		1	0.56	3.12	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-36-0	Antimony	0.28	J	1	0.070	0.31	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-38-2	Arsenic	42.0		1	0.019	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-39-3	Barium	282		1	0.051	1.56	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-41-7	Beryllium	0.77		1	0.050	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-43-9	Cadmium	8.61		1	0.028	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-70-2	Calcium	5060		1	7.46	77.9	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-47-3	Chromium	351	D	5	0.20	1.56	mg/Kg	10/20/25 11:50	10/22/25 20:00	6020B	SW3050
7440-48-4	Cobalt	9.69		1	0.014	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-50-8	Copper	371		1	0.10	0.31	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7439-89-6	Iron	28400		1	1.43	7.79	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7439-92-1	Lead	456	N	1	0.050	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7439-95-4	Magnesium	6320		1	3.01	77.9	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7439-96-5	Manganese	250		1	0.053	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7439-97-6	Mercury	6.30	D	10	0.13	0.23	mg/Kg	10/20/25 09:30	10/22/25 14:31	7471B	7471B
7440-02-0	Nickel	52.6		1	0.067	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-09-7	Potassium	2250		1	5.98	77.9	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7782-49-2	Selenium	2.46		1	0.44	0.78	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-22-4	Silver	6.19	N	1	0.040	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-23-5	Sodium	5870		1	10.9	77.9	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-28-0	Thallium	0.41		1	0.022	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-62-2	Vanadium	41.3		1	0.017	0.78	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050
7440-66-6	Zinc	535		1	0.14	0.78	mg/Kg	10/20/25 11:50	10/22/25 16:06	6020B	SW3050

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

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-DP01-20251016
Lab Sample ID: Q3376-02
Level (low/med): low

Date Collected: 10/16/25
Date Received: 10/16/25
SDG No.: Q3376
Matrix: SOIL
% Solid: 53.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	10700		1	0.60	3.33	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-36-0	Antimony	0.28	J	1	0.075	0.33	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-38-2	Arsenic	34.6		1	0.020	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-39-3	Barium	270		1	0.055	1.67	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-41-7	Beryllium	0.84		1	0.053	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-43-9	Cadmium	7.63		1	0.030	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-70-2	Calcium	3690		1	7.98	83.3	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-47-3	Chromium	320	D	5	0.22	1.67	mg/Kg	10/20/25 11:50	10/22/25 20:03	6020B	SW3050
7440-48-4	Cobalt	9.61		1	0.015	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-50-8	Copper	347		1	0.11	0.33	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7439-89-6	Iron	27700		1	1.53	8.33	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7439-92-1	Lead	499	N	1	0.053	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7439-95-4	Magnesium	6360		1	3.21	83.3	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7439-96-5	Manganese	252		1	0.057	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7439-97-6	Mercury	25.8	D	10	0.56	1.00	mg/Kg	10/20/25 09:30	10/22/25 14:33	7471B	7471B
7440-02-0	Nickel	52.2		1	0.072	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-09-7	Potassium	2370		1	6.40	83.3	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7782-49-2	Selenium	2.56		1	0.47	0.83	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-22-4	Silver	6.61	N	1	0.043	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-23-5	Sodium	6390		1	11.7	83.3	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-28-0	Thallium	0.41		1	0.023	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-62-2	Vanadium	41.8		1	0.018	0.83	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050
7440-66-6	Zinc	551		1	0.15	0.83	mg/Kg	10/20/25 11:50	10/22/25 16:09	6020B	SW3050

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

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-COMP2-20251016
Lab Sample ID: Q3376-03
Level (low/med): low

Date Collected: 10/16/25
Date Received: 10/16/25
SDG No.: Q3376
Matrix: SOIL
% Solid: 52.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	14100		1	0.59	3.27	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-36-0	Antimony	0.25	J	1	0.074	0.33	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-38-2	Arsenic	66.5		1	0.020	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-39-3	Barium	459		1	0.054	1.64	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-41-7	Beryllium	1.14		1	0.052	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-43-9	Cadmium	12.8		1	0.029	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-70-2	Calcium	6460		1	7.84	81.8	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-47-3	Chromium	341	D	5	0.21	1.64	mg/Kg	10/20/25 11:50	10/22/25 20:06	6020B	SW3050
7440-48-4	Cobalt	12.6		1	0.015	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-50-8	Copper	422		1	0.11	0.33	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7439-89-6	Iron	35800		1	1.50	8.18	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7439-92-1	Lead	474	N	1	0.052	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7439-95-4	Magnesium	7840		1	3.16	81.8	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7439-96-5	Manganese	402		1	0.056	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7439-97-6	Mercury	4.61	D	10	0.13	0.23	mg/Kg	10/20/25 09:30	10/22/25 14:36	7471B	7471B
7440-02-0	Nickel	53.6		1	0.070	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-09-7	Potassium	3110		1	6.28	81.8	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7782-49-2	Selenium	3.31		1	0.46	0.82	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-22-4	Silver	5.76	N	1	0.043	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-23-5	Sodium	7470		1	11.5	81.8	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-28-0	Thallium	0.50		1	0.023	0.16	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-62-2	Vanadium	51.8		1	0.018	0.82	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050
7440-66-6	Zinc	576		1	0.15	0.82	mg/Kg	10/20/25 11:50	10/22/25 16:13	6020B	SW3050

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

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-S12-047072-20251016
Lab Sample ID: Q3376-04
Level (low/med): low

Date Collected: 10/16/25
Date Received: 10/16/25
SDG No.: Q3376
Matrix: SOIL
% Solid: 51.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	13700		1	0.60	3.30	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-36-0	Antimony	0.43		1	0.074	0.33	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-38-2	Arsenic	45.0		1	0.020	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-39-3	Barium	271		1	0.055	1.65	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-41-7	Beryllium	1.12		1	0.053	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-43-9	Cadmium	15.3		1	0.030	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-70-2	Calcium	8480		1	7.91	82.6	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-47-3	Chromium	532	D	5	0.22	1.65	mg/Kg	10/20/25 11:50	10/22/25 20:09	6020B	SW3050
7440-48-4	Cobalt	13.6		1	0.015	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-50-8	Copper	495		1	0.11	0.33	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7439-89-6	Iron	37400		1	1.52	8.26	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7439-92-1	Lead	457	N	1	0.053	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7439-95-4	Magnesium	8580		1	3.19	82.6	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7439-96-5	Manganese	335		1	0.056	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7439-97-6	Mercury	6.51	D	10	0.13	0.23	mg/Kg	10/20/25 09:30	10/22/25 14:39	7471B	7471B
7440-02-0	Nickel	91.4		1	0.071	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-09-7	Potassium	3180		1	6.34	82.6	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7782-49-2	Selenium	2.49		1	0.46	0.83	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-22-4	Silver	5.64	N	1	0.043	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-23-5	Sodium	10200		1	11.6	82.6	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-28-0	Thallium	0.43		1	0.023	0.17	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-62-2	Vanadium	88.2		1	0.018	0.83	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050
7440-66-6	Zinc	700		1	0.15	0.83	mg/Kg	10/20/25 11:50	10/22/25 16:16	6020B	SW3050

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

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-S12-020047-20251016
Lab Sample ID: Q3376-05
Level (low/med): low

Date Collected: 10/16/25
Date Received: 10/16/25
SDG No.: Q3376
Matrix: SOIL
% Solid: 66.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6330		1	0.45	2.50	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-36-0	Antimony	0.080	J	1	0.056	0.25	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-38-2	Arsenic	7.86		1	0.015	0.13	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-39-3	Barium	52.4		1	0.041	1.25	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-41-7	Beryllium	0.74		1	0.040	0.13	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-43-9	Cadmium	1.03		1	0.022	0.13	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-70-2	Calcium	4870		1	5.98	62.4	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-47-3	Chromium	49.4		1	0.032	0.25	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-48-4	Cobalt	8.16		1	0.011	0.13	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-50-8	Copper	103		1	0.081	0.25	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7439-89-6	Iron	17500		1	1.15	6.24	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7439-92-1	Lead	235	N	1	0.040	0.13	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7439-95-4	Magnesium	7170		1	2.41	62.4	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7439-96-5	Manganese	199		1	0.042	0.13	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7439-97-6	Mercury	5.14	D	10	0.097	0.18	mg/Kg	10/20/25 09:30	10/22/25 14:47	7471B	7471B
7440-02-0	Nickel	56.0		1	0.054	0.13	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-09-7	Potassium	1500		1	4.79	62.4	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7782-49-2	Selenium	0.59	J	1	0.35	0.62	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-22-4	Silver	1.80	N	1	0.032	0.13	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-23-5	Sodium	4580		1	8.76	62.4	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-28-0	Thallium	0.22		1	0.017	0.13	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-62-2	Vanadium	20.6		1	0.014	0.62	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050
7440-66-6	Zinc	259		1	0.11	0.62	mg/Kg	10/20/25 11:50	10/22/25 16:19	6020B	SW3050

U = Not Detected

LOQ = Limit of Quantitation

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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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.: Q3376

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
ICV79	Mercury	3.76	4.0	94	90 - 110	CV	10/20/2025	14:21	LB137584

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
CCV57	Mercury	5.10	5.0	102	90 - 110	CV	10/20/2025	14:26	LB137584
CCV58	Mercury	4.95	5.0	99	90 - 110	CV	10/20/2025	15:05	LB137584
CCV59	Mercury	4.90	5.0	98	90 - 110	CV	10/20/2025	15:40	LB137584
CCV60	Mercury	4.94	5.0	99	90 - 110	CV	10/20/2025	16:17	LB137584
CCV61	Mercury	5.03	5.0	101	90 - 110	CV	10/21/2025	08:57	LB137584

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
ICV83	Mercury	3.78	4.0	94	90 - 110	CV	10/22/2025	11:29	LB137610

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
CCV71	Mercury	4.98	5.0	100	90 - 110	CV	10/22/2025	11:34	LB137610
CCV72	Mercury	4.71	5.0	94	90 - 110	CV	10/22/2025	12:14	LB137610
CCV73	Mercury	4.89	5.0	98	90 - 110	CV	10/22/2025	12:48	LB137610
CCV74	Mercury	5.24	5.0	105	90 - 110	CV	10/22/2025	13:23	LB137610
CCV75	Mercury	5.38	5.0	108	90 - 110	CV	10/22/2025	14:11	LB137610
CCV76	Mercury	5.22	5.0	104	90 - 110	CV	10/22/2025	14:42	LB137610
CCV77	Mercury	5.43	5.0	109	90 - 110	CV	10/22/2025	14:59	LB137610

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
ICV01	Aluminum	1540	1600	96	90 - 110	P	10/22/2025	12:38	LB137619
	Antimony	422	400	106	90 - 110	P	10/22/2025	12:38	LB137619
	Arsenic	362	400	90	90 - 110	P	10/22/2025	12:38	LB137619
	Barium	1640	1600	103	90 - 110	P	10/22/2025	12:38	LB137619
	Beryllium	42.9	40.0	107	90 - 110	P	10/22/2025	12:38	LB137619
	Cadmium	215	200	107	90 - 110	P	10/22/2025	12:38	LB137619
	Calcium	4260	4000	106	90 - 110	P	10/22/2025	12:38	LB137619
	Chromium	160	160	100	90 - 110	P	10/22/2025	12:38	LB137619
	Cobalt	406	400	101	90 - 110	P	10/22/2025	12:38	LB137619
	Copper	189	200	95	90 - 110	P	10/22/2025	12:38	LB137619
	Iron	863	800	108	90 - 110	P	10/22/2025	12:38	LB137619
	Lead	383	400	96	90 - 110	P	10/22/2025	12:38	LB137619
	Magnesium	3720	4000	93	90 - 110	P	10/22/2025	12:38	LB137619
	Manganese	363	400	91	90 - 110	P	10/22/2025	12:38	LB137619
	Nickel	404	400	101	90 - 110	P	10/22/2025	12:38	LB137619
	Potassium	4110	4000	103	90 - 110	P	10/22/2025	12:38	LB137619
	Selenium	417	400	104	90 - 110	P	10/22/2025	12:38	LB137619
	Silver	213	200	106	90 - 110	P	10/22/2025	12:38	LB137619
	Sodium	4030	4000	101	90 - 110	P	10/22/2025	12:38	LB137619
	Thallium	389	400	97	90 - 110	P	10/22/2025	12:38	LB137619
	Vanadium	402	400	101	90 - 110	P	10/22/2025	12:38	LB137619
	Zinc	380	400	95	90 - 110	P	10/22/2025	12:38	LB137619

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
LLICV01	Aluminum	20.7	20.0	104	80 - 120	P	10/22/2025	13:12	LB137619
	Antimony	2.09	2.0	104	80 - 120	P	10/22/2025	13:12	LB137619
	Arsenic	1.20	1.0	120	80 - 120	P	10/22/2025	13:12	LB137619
	Barium	9.64	10.0	96	80 - 120	P	10/22/2025	13:12	LB137619
	Beryllium	1.11	1.0	111	80 - 120	P	10/22/2025	13:12	LB137619
	Cadmium	0.81	1.0	81	80 - 120	P	10/22/2025	13:12	LB137619
	Calcium	528	500	106	80 - 120	P	10/22/2025	13:12	LB137619
	Chromium	1.93	2.0	96	80 - 120	P	10/22/2025	13:12	LB137619
	Cobalt	1.03	1.0	103	80 - 120	P	10/22/2025	13:12	LB137619
	Copper	1.95	2.0	98	80 - 120	P	10/22/2025	13:12	LB137619
	Iron	59.8	50.0	120	80 - 120	P	10/22/2025	13:12	LB137619
	Lead	0.82	1.0	82	80 - 120	P	10/22/2025	13:12	LB137619
	Magnesium	479	500	96	80 - 120	P	10/22/2025	13:12	LB137619
	Manganese	1.03	1.0	103	80 - 120	P	10/22/2025	13:12	LB137619
	Nickel	1.07	1.0	107	80 - 120	P	10/22/2025	13:12	LB137619
	Potassium	524	500	105	80 - 120	P	10/22/2025	13:12	LB137619
	Selenium	4.39	5.0	88	80 - 120	P	10/22/2025	13:12	LB137619
	Silver	1.10	1.0	110	80 - 120	P	10/22/2025	13:12	LB137619
	Sodium	492	500	98	80 - 120	P	10/22/2025	13:12	LB137619
	Thallium	0.95	1.0	95	80 - 120	P	10/22/2025	13:12	LB137619
	Vanadium	4.93	5.0	99	80 - 120	P	10/22/2025	13:12	LB137619
	Zinc	5.69	5.0	114	80 - 120	P	10/22/2025	13:12	LB137619

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
CCV01	Aluminum	50200	50000	100	90 - 110	P	10/22/2025	13:27	LB137619
	Antimony	504	500	101	90 - 110	P	10/22/2025	13:27	LB137619
	Arsenic	491	500	98	90 - 110	P	10/22/2025	13:27	LB137619
	Barium	2490	2500	100	90 - 110	P	10/22/2025	13:27	LB137619
	Beryllium	490	500	98	90 - 110	P	10/22/2025	13:27	LB137619
	Cadmium	482	500	96	90 - 110	P	10/22/2025	13:27	LB137619
	Calcium	241000	250000	96	90 - 110	P	10/22/2025	13:27	LB137619
	Chromium	489	500	98	90 - 110	P	10/22/2025	13:27	LB137619
	Cobalt	499	500	100	90 - 110	P	10/22/2025	13:27	LB137619
	Copper	4850	5000	97	90 - 110	P	10/22/2025	13:27	LB137619
	Iron	129000	125000	103	90 - 110	P	10/22/2025	13:27	LB137619
	Lead	2470	2500	99	90 - 110	P	10/22/2025	13:27	LB137619
	Magnesium	252000	250000	101	90 - 110	P	10/22/2025	13:27	LB137619
	Manganese	4970	5000	99	90 - 110	P	10/22/2025	13:27	LB137619
	Nickel	481	500	96	90 - 110	P	10/22/2025	13:27	LB137619
	Potassium	126000	125000	101	90 - 110	P	10/22/2025	13:27	LB137619
	Selenium	460	500	92	90 - 110	P	10/22/2025	13:27	LB137619
	Silver	495	500	99	90 - 110	P	10/22/2025	13:27	LB137619
	Sodium	252000	250000	101	90 - 110	P	10/22/2025	13:27	LB137619
	Thallium	502	500	100	90 - 110	P	10/22/2025	13:27	LB137619
	Vanadium	506	500	101	90 - 110	P	10/22/2025	13:27	LB137619
	Zinc	4780	5000	96	90 - 110	P	10/22/2025	13:27	LB137619
CCV02	Aluminum	50600	50000	101	90 - 110	P	10/22/2025	14:11	LB137619
	Antimony	515	500	103	90 - 110	P	10/22/2025	14:11	LB137619
	Arsenic	488	500	98	90 - 110	P	10/22/2025	14:11	LB137619
	Barium	2590	2500	104	90 - 110	P	10/22/2025	14:11	LB137619
	Beryllium	504	500	101	90 - 110	P	10/22/2025	14:11	LB137619
	Cadmium	497	500	99	90 - 110	P	10/22/2025	14:11	LB137619
	Calcium	251000	250000	100	90 - 110	P	10/22/2025	14:11	LB137619
	Chromium	494	500	99	90 - 110	P	10/22/2025	14:11	LB137619
	Cobalt	494	500	99	90 - 110	P	10/22/2025	14:11	LB137619
	Copper	4940	5000	99	90 - 110	P	10/22/2025	14:11	LB137619
	Iron	129000	125000	103	90 - 110	P	10/22/2025	14:11	LB137619
	Lead	2550	2500	102	90 - 110	P	10/22/2025	14:11	LB137619

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
CCV02	Magnesium	252000	250000	101	90 - 110	P	10/22/2025	14:11	LB137619
	Manganese	5010	5000	100	90 - 110	P	10/22/2025	14:11	LB137619
	Nickel	486	500	97	90 - 110	P	10/22/2025	14:11	LB137619
	Potassium	128000	125000	102	90 - 110	P	10/22/2025	14:11	LB137619
	Selenium	469	500	94	90 - 110	P	10/22/2025	14:11	LB137619
	Silver	511	500	102	90 - 110	P	10/22/2025	14:11	LB137619
	Sodium	254000	250000	102	90 - 110	P	10/22/2025	14:11	LB137619
	Thallium	527	500	106	90 - 110	P	10/22/2025	14:11	LB137619
	Vanadium	507	500	101	90 - 110	P	10/22/2025	14:11	LB137619
	Zinc	4770	5000	96	90 - 110	P	10/22/2025	14:11	LB137619
CCV03	Aluminum	49800	50000	100	90 - 110	P	10/22/2025	14:54	LB137619
	Antimony	522	500	104	90 - 110	P	10/22/2025	14:54	LB137619
	Arsenic	493	500	99	90 - 110	P	10/22/2025	14:54	LB137619
	Barium	2570	2500	103	90 - 110	P	10/22/2025	14:54	LB137619
	Beryllium	511	500	102	90 - 110	P	10/22/2025	14:54	LB137619
	Cadmium	504	500	101	90 - 110	P	10/22/2025	14:54	LB137619
	Calcium	256000	250000	102	90 - 110	P	10/22/2025	14:54	LB137619
	Chromium	494	500	99	90 - 110	P	10/22/2025	14:54	LB137619
	Cobalt	496	500	99	90 - 110	P	10/22/2025	14:54	LB137619
	Copper	4940	5000	99	90 - 110	P	10/22/2025	14:54	LB137619
	Iron	130000	125000	104	90 - 110	P	10/22/2025	14:54	LB137619
	Lead	2570	2500	103	90 - 110	P	10/22/2025	14:54	LB137619
	Magnesium	254000	250000	102	90 - 110	P	10/22/2025	14:54	LB137619
	Manganese	5110	5000	102	90 - 110	P	10/22/2025	14:54	LB137619
	Nickel	484	500	97	90 - 110	P	10/22/2025	14:54	LB137619
	Potassium	126000	125000	101	90 - 110	P	10/22/2025	14:54	LB137619
	Selenium	480	500	96	90 - 110	P	10/22/2025	14:54	LB137619
	Silver	522	500	104	90 - 110	P	10/22/2025	14:54	LB137619
	Sodium	251000	250000	100	90 - 110	P	10/22/2025	14:54	LB137619
	Thallium	524	500	105	90 - 110	P	10/22/2025	14:54	LB137619
CCV04	Vanadium	508	500	102	90 - 110	P	10/22/2025	14:54	LB137619
	Zinc	4800	5000	96	90 - 110	P	10/22/2025	14:54	LB137619
	Aluminum	51200	50000	102	90 - 110	P	10/22/2025	15:45	LB137619
	Antimony	514	500	103	90 - 110	P	10/22/2025	15:45	LB137619

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
CCV04	Arsenic	493	500	99	90 - 110	P	10/22/2025	15:45	LB137619
	Barium	2560	2500	102	90 - 110	P	10/22/2025	15:45	LB137619
	Beryllium	511	500	102	90 - 110	P	10/22/2025	15:45	LB137619
	Cadmium	497	500	99	90 - 110	P	10/22/2025	15:45	LB137619
	Calcium	257000	250000	103	90 - 110	P	10/22/2025	15:45	LB137619
	Chromium	505	500	101	90 - 110	P	10/22/2025	15:45	LB137619
	Cobalt	497	500	99	90 - 110	P	10/22/2025	15:45	LB137619
	Copper	5000	5000	100	90 - 110	P	10/22/2025	15:45	LB137619
	Iron	131000	125000	105	90 - 110	P	10/22/2025	15:45	LB137619
	Lead	2530	2500	101	90 - 110	P	10/22/2025	15:45	LB137619
	Magnesium	253000	250000	101	90 - 110	P	10/22/2025	15:45	LB137619
	Manganese	5090	5000	102	90 - 110	P	10/22/2025	15:45	LB137619
	Nickel	487	500	98	90 - 110	P	10/22/2025	15:45	LB137619
	Potassium	128000	125000	102	90 - 110	P	10/22/2025	15:45	LB137619
	Selenium	480	500	96	90 - 110	P	10/22/2025	15:45	LB137619
	Silver	513	500	103	90 - 110	P	10/22/2025	15:45	LB137619
	Sodium	253000	250000	101	90 - 110	P	10/22/2025	15:45	LB137619
	Thallium	522	500	104	90 - 110	P	10/22/2025	15:45	LB137619
	Vanadium	508	500	102	90 - 110	P	10/22/2025	15:45	LB137619
	Zinc	4860	5000	97	90 - 110	P	10/22/2025	15:45	LB137619
CCV05	Aluminum	50100	50000	100	90 - 110	P	10/22/2025	16:46	LB137619
	Antimony	513	500	103	90 - 110	P	10/22/2025	16:46	LB137619
	Arsenic	488	500	98	90 - 110	P	10/22/2025	16:46	LB137619
	Barium	2570	2500	103	90 - 110	P	10/22/2025	16:46	LB137619
	Beryllium	490	500	98	90 - 110	P	10/22/2025	16:46	LB137619
	Cadmium	493	500	99	90 - 110	P	10/22/2025	16:46	LB137619
	Calcium	248000	250000	99	90 - 110	P	10/22/2025	16:46	LB137619
	Chromium	496	500	99	90 - 110	P	10/22/2025	16:46	LB137619
	Cobalt	498	500	100	90 - 110	P	10/22/2025	16:46	LB137619
	Copper	4940	5000	99	90 - 110	P	10/22/2025	16:46	LB137619
	Iron	131000	125000	104	90 - 110	P	10/22/2025	16:46	LB137619
	Lead	2580	2500	103	90 - 110	P	10/22/2025	16:46	LB137619
	Magnesium	250000	250000	100	90 - 110	P	10/22/2025	16:46	LB137619
	Manganese	4980	5000	100	90 - 110	P	10/22/2025	16:46	LB137619

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
CCV05	Nickel	481	500	96	90 - 110	P	10/22/2025	16:46	LB137619
	Potassium	126000	125000	101	90 - 110	P	10/22/2025	16:46	LB137619
	Selenium	473	500	95	90 - 110	P	10/22/2025	16:46	LB137619
	Silver	508	500	102	90 - 110	P	10/22/2025	16:46	LB137619
	Sodium	252000	250000	101	90 - 110	P	10/22/2025	16:46	LB137619
	Thallium	518	500	104	90 - 110	P	10/22/2025	16:46	LB137619
	Vanadium	503	500	101	90 - 110	P	10/22/2025	16:46	LB137619
	Zinc	4810	5000	96	90 - 110	P	10/22/2025	16:46	LB137619
CCV06	Aluminum	50300	50000	101	90 - 110	P	10/22/2025	17:59	LB137619
	Antimony	490	500	98	90 - 110	P	10/22/2025	17:59	LB137619
	Arsenic	484	500	97	90 - 110	P	10/22/2025	17:59	LB137619
	Barium	2460	2500	98	90 - 110	P	10/22/2025	17:59	LB137619
	Beryllium	514	500	103	90 - 110	P	10/22/2025	17:59	LB137619
	Cadmium	468	500	94	90 - 110	P	10/22/2025	17:59	LB137619
	Calcium	255000	250000	102	90 - 110	P	10/22/2025	17:59	LB137619
	Chromium	494	500	99	90 - 110	P	10/22/2025	17:59	LB137619
	Cobalt	495	500	99	90 - 110	P	10/22/2025	17:59	LB137619
	Copper	4930	5000	99	90 - 110	P	10/22/2025	17:59	LB137619
	Iron	130000	125000	104	90 - 110	P	10/22/2025	17:59	LB137619
	Lead	2550	2500	102	90 - 110	P	10/22/2025	17:59	LB137619
	Magnesium	256000	250000	102	90 - 110	P	10/22/2025	17:59	LB137619
	Manganese	5040	5000	101	90 - 110	P	10/22/2025	17:59	LB137619
	Nickel	481	500	96	90 - 110	P	10/22/2025	17:59	LB137619
	Potassium	125000	125000	100	90 - 110	P	10/22/2025	17:59	LB137619
	Selenium	470	500	94	90 - 110	P	10/22/2025	17:59	LB137619
	Silver	484	500	97	90 - 110	P	10/22/2025	17:59	LB137619
	Sodium	252000	250000	101	90 - 110	P	10/22/2025	17:59	LB137619
	Thallium	510	500	102	90 - 110	P	10/22/2025	17:59	LB137619
	Vanadium	503	500	101	90 - 110	P	10/22/2025	17:59	LB137619
	Zinc	4870	5000	98	90 - 110	P	10/22/2025	17:59	LB137619
CCV07	Aluminum	49700	50000	99	90 - 110	P	10/22/2025	18:41	LB137619
	Antimony	505	500	101	90 - 110	P	10/22/2025	18:41	LB137619
	Arsenic	487	500	97	90 - 110	P	10/22/2025	18:41	LB137619
	Barium	2530	2500	101	90 - 110	P	10/22/2025	18:41	LB137619

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
CCV07	Beryllium	504	500	101	90 - 110	P	10/22/2025	18:41	LB137619
	Cadmium	484	500	97	90 - 110	P	10/22/2025	18:41	LB137619
	Calcium	256000	250000	102	90 - 110	P	10/22/2025	18:41	LB137619
	Chromium	496	500	99	90 - 110	P	10/22/2025	18:41	LB137619
	Cobalt	497	500	99	90 - 110	P	10/22/2025	18:41	LB137619
	Copper	5000	5000	100	90 - 110	P	10/22/2025	18:41	LB137619
	Iron	132000	125000	105	90 - 110	P	10/22/2025	18:41	LB137619
	Lead	2550	2500	102	90 - 110	P	10/22/2025	18:41	LB137619
	Magnesium	253000	250000	101	90 - 110	P	10/22/2025	18:41	LB137619
	Manganese	5030	5000	101	90 - 110	P	10/22/2025	18:41	LB137619
	Nickel	482	500	96	90 - 110	P	10/22/2025	18:41	LB137619
	Potassium	126000	125000	101	90 - 110	P	10/22/2025	18:41	LB137619
	Selenium	467	500	93	90 - 110	P	10/22/2025	18:41	LB137619
	Silver	500	500	100	90 - 110	P	10/22/2025	18:41	LB137619
	Sodium	253000	250000	101	90 - 110	P	10/22/2025	18:41	LB137619
	Thallium	530	500	106	90 - 110	P	10/22/2025	18:41	LB137619
	Vanadium	502	500	100	90 - 110	P	10/22/2025	18:41	LB137619
	Zinc	4890	5000	98	90 - 110	P	10/22/2025	18:41	LB137619
CCV08	Aluminum	50200	50000	100	90 - 110	P	10/22/2025	19:44	LB137619
	Antimony	512	500	102	90 - 110	P	10/22/2025	19:44	LB137619
	Arsenic	486	500	97	90 - 110	P	10/22/2025	19:44	LB137619
	Barium	2540	2500	102	90 - 110	P	10/22/2025	19:44	LB137619
	Beryllium	513	500	102	90 - 110	P	10/22/2025	19:44	LB137619
	Cadmium	483	500	97	90 - 110	P	10/22/2025	19:44	LB137619
	Calcium	256000	250000	103	90 - 110	P	10/22/2025	19:44	LB137619
	Chromium	504	500	101	90 - 110	P	10/22/2025	19:44	LB137619
	Cobalt	508	500	102	90 - 110	P	10/22/2025	19:44	LB137619
	Copper	5120	5000	102	90 - 110	P	10/22/2025	19:44	LB137619
	Iron	132000	125000	106	90 - 110	P	10/22/2025	19:44	LB137619
	Lead	2560	2500	102	90 - 110	P	10/22/2025	19:44	LB137619
	Magnesium	255000	250000	102	90 - 110	P	10/22/2025	19:44	LB137619
	Manganese	5090	5000	102	90 - 110	P	10/22/2025	19:44	LB137619
	Nickel	492	500	98	90 - 110	P	10/22/2025	19:44	LB137619
	Potassium	128000	125000	102	90 - 110	P	10/22/2025	19:44	LB137619

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
CCV08	Selenium	473	500	95	90 - 110	P	10/22/2025	19:44	LB137619
	Silver	504	500	101	90 - 110	P	10/22/2025	19:44	LB137619
	Sodium	256000	250000	102	90 - 110	P	10/22/2025	19:44	LB137619
	Thallium	525	500	105	90 - 110	P	10/22/2025	19:44	LB137619
	Vanadium	510	500	102	90 - 110	P	10/22/2025	19:44	LB137619
	Zinc	4950	5000	99	90 - 110	P	10/22/2025	19:44	LB137619
CCV09	Aluminum	52600	50000	105	90 - 110	P	10/22/2025	20:28	LB137619
	Antimony	536	500	107	90 - 110	P	10/22/2025	20:28	LB137619
	Arsenic	508	500	102	90 - 110	P	10/22/2025	20:28	LB137619
	Barium	2660	2500	106	90 - 110	P	10/22/2025	20:28	LB137619
	Beryllium	534	500	107	90 - 110	P	10/22/2025	20:28	LB137619
	Cadmium	504	500	101	90 - 110	P	10/22/2025	20:28	LB137619
	Calcium	261000	250000	104	90 - 110	P	10/22/2025	20:28	LB137619
	Chromium	521	500	104	90 - 110	P	10/22/2025	20:28	LB137619
	Cobalt	527	500	105	90 - 110	P	10/22/2025	20:28	LB137619
	Copper	5240	5000	105	90 - 110	P	10/22/2025	20:28	LB137619
	Iron	137000	125000	109	90 - 110	P	10/22/2025	20:28	LB137619
	Lead	2650	2500	106	90 - 110	P	10/22/2025	20:28	LB137619
	Magnesium	263000	250000	105	90 - 110	P	10/22/2025	20:28	LB137619
	Manganese	5330	5000	107	90 - 110	P	10/22/2025	20:28	LB137619
	Nickel	507	500	102	90 - 110	P	10/22/2025	20:28	LB137619
	Potassium	130000	125000	104	90 - 110	P	10/22/2025	20:28	LB137619
	Selenium	489	500	98	90 - 110	P	10/22/2025	20:28	LB137619
	Silver	530	500	106	90 - 110	P	10/22/2025	20:28	LB137619
	Sodium	262000	250000	105	90 - 110	P	10/22/2025	20:28	LB137619
	Thallium	542	500	108	90 - 110	P	10/22/2025	20:28	LB137619
	Vanadium	529	500	106	90 - 110	P	10/22/2025	20:28	LB137619
	Zinc	5160	5000	103	90 - 110	P	10/22/2025	20:28	LB137619
CCV10	Aluminum	50800	50000	102	90 - 110	P	10/22/2025	21:03	LB137619
	Antimony	520	500	104	90 - 110	P	10/22/2025	21:03	LB137619
	Arsenic	496	500	99	90 - 110	P	10/22/2025	21:03	LB137619
	Barium	2600	2500	104	90 - 110	P	10/22/2025	21:03	LB137619
	Beryllium	519	500	104	90 - 110	P	10/22/2025	21:03	LB137619
	Cadmium	492	500	98	90 - 110	P	10/22/2025	21:03	LB137619

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM

SDG No.: Q3376

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
CCV10	Calcium	256000	250000	102	90 - 110	P	10/22/2025	21:03	LB137619
	Chromium	516	500	103	90 - 110	P	10/22/2025	21:03	LB137619
	Cobalt	528	500	106	90 - 110	P	10/22/2025	21:03	LB137619
	Copper	5240	5000	105	90 - 110	P	10/22/2025	21:03	LB137619
	Iron	137000	125000	110	90 - 110	P	10/22/2025	21:03	LB137619
	Lead	2650	2500	106	90 - 110	P	10/22/2025	21:03	LB137619
	Magnesium	259000	250000	104	90 - 110	P	10/22/2025	21:03	LB137619
	Manganese	5280	5000	106	90 - 110	P	10/22/2025	21:03	LB137619
	Nickel	501	500	100	90 - 110	P	10/22/2025	21:03	LB137619
	Potassium	130000	125000	104	90 - 110	P	10/22/2025	21:03	LB137619
	Selenium	495	500	99	90 - 110	P	10/22/2025	21:03	LB137619
	Silver	516	500	103	90 - 110	P	10/22/2025	21:03	LB137619
	Sodium	260000	250000	104	90 - 110	P	10/22/2025	21:03	LB137619
	Thallium	535	500	107	90 - 110	P	10/22/2025	21:03	LB137619
	Vanadium	527	500	106	90 - 110	P	10/22/2025	21:03	LB137619
	Zinc	5100	5000	102	90 - 110	P	10/22/2025	21:03	LB137619

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: AECOM

SDG No.: Q3376

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	0.19	0.2	95	70 - 130	CV	10/20/2025	14:35	LB137584
CRA	Mercury	0.17	0.2	86	70 - 130	CV	10/22/2025	11:39	LB137610
CRI01	Aluminum	20.9	20.0	105	70 - 130	P	10/22/2025	13:33	LB137619
	Antimony	2.06	2.0	103	70 - 130	P	10/22/2025	13:33	LB137619
	Arsenic	1.12	1.0	112	70 - 130	P	10/22/2025	13:33	LB137619
	Barium	9.63	10.0	96	70 - 130	P	10/22/2025	13:33	LB137619
	Beryllium	1.08	1.0	108	70 - 130	P	10/22/2025	13:33	LB137619
	Cadmium	0.86	1.0	86	70 - 130	P	10/22/2025	13:33	LB137619
	Calcium	532	500	106	70 - 130	P	10/22/2025	13:33	LB137619
	Chromium	1.99	2.0	100	70 - 130	P	10/22/2025	13:33	LB137619
	Cobalt	1.05	1.0	105	50 - 150	P	10/22/2025	13:33	LB137619
	Copper	2.06	2.0	103	70 - 130	P	10/22/2025	13:33	LB137619
	Iron	60.0	50.0	120	70 - 130	P	10/22/2025	13:33	LB137619
	Lead	0.86	1.0	86	70 - 130	P	10/22/2025	13:33	LB137619
	Magnesium	489	500	98	70 - 130	P	10/22/2025	13:33	LB137619
	Manganese	1.05	1.0	105	50 - 150	P	10/22/2025	13:33	LB137619
	Nickel	1.13	1.0	113	70 - 130	P	10/22/2025	13:33	LB137619
	Potassium	537	500	108	70 - 130	P	10/22/2025	13:33	LB137619
	Selenium	4.66	5.0	93	70 - 130	P	10/22/2025	13:33	LB137619
	Silver	1.12	1.0	112	70 - 130	P	10/22/2025	13:33	LB137619
	Sodium	532	500	106	70 - 130	P	10/22/2025	13:33	LB137619
	Thallium	1.00	1.0	100	70 - 130	P	10/22/2025	13:33	LB137619
	Vanadium	4.93	5.0	99	70 - 130	P	10/22/2025	13:33	LB137619
	Zinc	5.85	5.0	117	50 - 150	P	10/22/2025	13:33	LB137619



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.:

Q3376

Contract:

AECO02

Lab Code:

ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB79	Mercury	0.076	+/-0.2	U	0.20	CV	10/20/2025	14:23	LB137584

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3376

Contract: AECO02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB57	Mercury	0.076	+/-0.2	U	0.20	CV	10/20/2025	14:28	LB137584
CCB58	Mercury	0.076	+/-0.2	U	0.20	CV	10/20/2025	15:08	LB137584
CCB59	Mercury	0.076	+/-0.2	U	0.20	CV	10/20/2025	15:43	LB137584
CCB60	Mercury	0.076	+/-0.2	U	0.20	CV	10/20/2025	16:20	LB137584
CCB61	Mercury	0.076	+/-0.2	U	0.20	CV	10/21/2025	09:00	LB137584

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3376

Contract: AECO02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB83	Mercury	0.076	+/-0.2	U	0.20	CV	10/22/2025	11:31	LB137610

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3376

Contract: AECO02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB71	Mercury	0.076	+/-0.2	U	0.20	CV	10/22/2025	11:36	LB137610
CCB72	Mercury	0.076	+/-0.2	U	0.20	CV	10/22/2025	12:16	LB137610
CCB73	Mercury	0.076	+/-0.2	U	0.20	CV	10/22/2025	12:54	LB137610
CCB74	Mercury	0.076	+/-0.2	U	0.20	CV	10/22/2025	13:26	LB137610
CCB75	Mercury	0.076	+/-0.2	U	0.20	CV	10/22/2025	14:13	LB137610
CCB76	Mercury	0.076	+/-0.2	U	0.20	CV	10/22/2025	14:44	LB137610
CCB77	Mercury	0.076	+/-0.2	U	0.20	CV	10/22/2025	15:02	LB137610

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3376

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	1.94	+/-10	U	20.0	P	10/22/2025	13:16	LB137619
	Antimony	0.11	+/-1	U	2.00	P	10/22/2025	13:16	LB137619
	Arsenic	0.089	+/-0.5	U	1.00	P	10/22/2025	13:16	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	13:16	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	13:16	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	13:16	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	13:16	LB137619
	Chromium	0.21	+/-1	U	2.00	P	10/22/2025	13:16	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	13:16	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	13:16	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	13:16	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	13:16	LB137619
	Magnesium	19.5	+/-250	U	500	P	10/22/2025	13:16	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	13:16	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	13:16	LB137619
	Potassium	36.4	+/-250	U	500	P	10/22/2025	13:16	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	13:16	LB137619
	Silver	0.060	+/-0.5	U	1.00	P	10/22/2025	13:16	LB137619
	Sodium	128	+/-250	U	500	P	10/22/2025	13:16	LB137619
	Thallium	0.060	+/-0.5	U	1.00	P	10/22/2025	13:16	LB137619
	Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	13:16	LB137619
	Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	13:16	LB137619

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3376

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	1.94	+/-10	U	20.0	P	10/22/2025	13:30	LB137619
	Antimony	0.17	+/-1	J	2.00	P	10/22/2025	13:30	LB137619
	Arsenic	0.089	+/-0.5	U	1.00	P	10/22/2025	13:30	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	13:30	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	13:30	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	13:30	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	13:30	LB137619
	Chromium	0.21	+/-1	U	2.00	P	10/22/2025	13:30	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	13:30	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	13:30	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	13:30	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	13:30	LB137619
	Magnesium	19.5	+/-250	U	500	P	10/22/2025	13:30	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	13:30	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	13:30	LB137619
	Potassium	36.4	+/-250	U	500	P	10/22/2025	13:30	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	13:30	LB137619
	Silver	0.060	+/-0.5	U	1.00	P	10/22/2025	13:30	LB137619
	Sodium	128	+/-250	U	500	P	10/22/2025	13:30	LB137619
	Thallium	0.080	+/-0.5	J	1.00	P	10/22/2025	13:30	LB137619
	Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	13:30	LB137619
	Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	13:30	LB137619
CCB02	Aluminum	1.94	+/-10	U	20.0	P	10/22/2025	14:18	LB137619
	Antimony	0.11	+/-1	U	2.00	P	10/22/2025	14:18	LB137619
	Arsenic	0.089	+/-0.5	U	1.00	P	10/22/2025	14:18	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	14:18	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	14:18	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	14:18	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	14:18	LB137619
	Chromium	0.21	+/-1	U	2.00	P	10/22/2025	14:18	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	14:18	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	14:18	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	14:18	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	14:18	LB137619
	Magnesium	19.5	+/-250	U	500	P	10/22/2025	14:18	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	14:18	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	14:18	LB137619
	Potassium	36.4	+/-250	U	500	P	10/22/2025	14:18	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	14:18	LB137619

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3376

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	0.060	+/-0.5	U	1.00	P	10/22/2025	14:18	LB137619
	Sodium	128	+/-250	U	500	P	10/22/2025	14:18	LB137619
	Thallium	0.060	+/-0.5	U	1.00	P	10/22/2025	14:18	LB137619
	Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	14:18	LB137619
	Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	14:18	LB137619
CCB03	Aluminum	1.94	+/-10	U	20.0	P	10/22/2025	15:05	LB137619
	Antimony	0.11	+/-1	U	2.00	P	10/22/2025	15:05	LB137619
	Arsenic	0.089	+/-0.5	U	1.00	P	10/22/2025	15:05	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	15:05	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	15:05	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	15:05	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	15:05	LB137619
	Chromium	0.21	+/-1	U	2.00	P	10/22/2025	15:05	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	15:05	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	15:05	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	15:05	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	15:05	LB137619
	Magnesium	19.5	+/-250	U	500	P	10/22/2025	15:05	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	15:05	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	15:05	LB137619
	Potassium	36.4	+/-250	U	500	P	10/22/2025	15:05	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	15:05	LB137619
	Silver	0.060	+/-0.5	U	1.00	P	10/22/2025	15:05	LB137619
	Sodium	128	+/-250	U	500	P	10/22/2025	15:05	LB137619
	Thallium	0.060	+/-0.5	U	1.00	P	10/22/2025	15:05	LB137619
	Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	15:05	LB137619
	Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	15:05	LB137619
CCB04	Aluminum	1.94	+/-10	U	20.0	P	10/22/2025	16:00	LB137619
	Antimony	0.11	+/-1	U	2.00	P	10/22/2025	16:00	LB137619
	Arsenic	0.089	+/-0.5	U	1.00	P	10/22/2025	16:00	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	16:00	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	16:00	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	16:00	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	16:00	LB137619
	Chromium	0.21	+/-1	U	2.00	P	10/22/2025	16:00	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	16:00	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	16:00	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	16:00	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	16:00	LB137619



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Client: AECOM

Contract: AECO02

SDG No.: Q3376

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	19.5	+/-250	U	500	P	10/22/2025	16:00	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	16:00	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	16:00	LB137619
	Potassium	36.4	+/-250	U	500	P	10/22/2025	16:00	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	16:00	LB137619
	Silver	0.060	+/-0.5	U	1.00	P	10/22/2025	16:00	LB137619
	Sodium	128	+/-250	U	500	P	10/22/2025	16:00	LB137619
	Thallium	0.060	+/-0.5	U	1.00	P	10/22/2025	16:00	LB137619
	Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	16:00	LB137619
	Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	16:00	LB137619
CCB05	Aluminum	1.94	+/-10	U	20.0	P	10/22/2025	16:55	LB137619
	Antimony	0.11	+/-1	U	2.00	P	10/22/2025	16:55	LB137619
	Arsenic	0.089	+/-0.5	U	1.00	P	10/22/2025	16:55	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	16:55	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	16:55	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	16:55	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	16:55	LB137619
	Chromium	0.21	+/-1	U	2.00	P	10/22/2025	16:55	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	16:55	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	16:55	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	16:55	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	16:55	LB137619
	Magnesium	19.5	+/-250	U	500	P	10/22/2025	16:55	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	16:55	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	16:55	LB137619
	Potassium	36.4	+/-250	U	500	P	10/22/2025	16:55	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	16:55	LB137619
	Silver	0.060	+/-0.5	U	1.00	P	10/22/2025	16:55	LB137619
	Sodium	182	+/-250	J	500	P	10/22/2025	16:55	LB137619
	Thallium	0.060	+/-0.5	U	1.00	P	10/22/2025	16:55	LB137619
Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	16:55	LB137619	
Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	16:55	LB137619	
CCB06	Aluminum	1.94	+/-10	U	20.0	P	10/22/2025	18:10	LB137619
	Antimony	0.11	+/-1	U	2.00	P	10/22/2025	18:10	LB137619
	Arsenic	0.089	+/-0.5	U	1.00	P	10/22/2025	18:10	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	18:10	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	18:10	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	18:10	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	18:10	LB137619

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3376

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	0.21	+/-1	U	2.00	P	10/22/2025	18:10	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	18:10	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	18:10	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	18:10	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	18:10	LB137619
	Magnesium	19.5	+/-250	U	500	P	10/22/2025	18:10	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	18:10	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	18:10	LB137619
	Potassium	36.4	+/-250	U	500	P	10/22/2025	18:10	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	18:10	LB137619
	Silver	0.060	+/-0.5	U	1.00	P	10/22/2025	18:10	LB137619
	Sodium	128	+/-250	U	500	P	10/22/2025	18:10	LB137619
	Thallium	0.060	+/-0.5	U	1.00	P	10/22/2025	18:10	LB137619
	Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	18:10	LB137619
	Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	18:10	LB137619
CCB07	Aluminum	1.94	+/-10	U	20.0	P	10/22/2025	18:49	LB137619
	Antimony	0.11	+/-1	U	2.00	P	10/22/2025	18:49	LB137619
	Arsenic	0.089	+/-0.5	U	1.00	P	10/22/2025	18:49	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	18:49	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	18:49	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	18:49	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	18:49	LB137619
	Chromium	0.21	+/-1	U	2.00	P	10/22/2025	18:49	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	18:49	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	18:49	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	18:49	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	18:49	LB137619
	Magnesium	19.5	+/-250	U	500	P	10/22/2025	18:49	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	18:49	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	18:49	LB137619
	Potassium	36.4	+/-250	U	500	P	10/22/2025	18:49	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	18:49	LB137619
	Silver	0.060	+/-0.5	U	1.00	P	10/22/2025	18:49	LB137619
	Sodium	128	+/-250	U	500	P	10/22/2025	18:49	LB137619
	Thallium	0.060	+/-0.5	U	1.00	P	10/22/2025	18:49	LB137619
	Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	18:49	LB137619
	Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	18:49	LB137619
CCB08	Aluminum	1.94	+/-10	U	20.0	P	10/22/2025	19:52	LB137619
	Antimony	0.11	+/-1	U	2.00	P	10/22/2025	19:52	LB137619

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3376

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	0.089	+/-0.5	U	1.00	P	10/22/2025	19:52	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	19:52	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	19:52	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	19:52	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	19:52	LB137619
	Chromium	0.21	+/-1	U	2.00	P	10/22/2025	19:52	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	19:52	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	19:52	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	19:52	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	19:52	LB137619
	Magnesium	19.5	+/-250	U	500	P	10/22/2025	19:52	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	19:52	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	19:52	LB137619
	Potassium	36.4	+/-250	U	500	P	10/22/2025	19:52	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	19:52	LB137619
	Silver	0.060	+/-0.5	U	1.00	P	10/22/2025	19:52	LB137619
	Sodium	128	+/-250	U	500	P	10/22/2025	19:52	LB137619
	Thallium	0.060	+/-0.5	U	1.00	P	10/22/2025	19:52	LB137619
	Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	19:52	LB137619
	Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	19:52	LB137619
CCB09	Aluminum	1.94	+/-10	U	20.0	P	10/22/2025	20:31	LB137619
	Antimony	0.18	+/-1	J	2.00	P	10/22/2025	20:31	LB137619
	Arsenic	0.089	+/-0.5	U	1.00	P	10/22/2025	20:31	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	20:31	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	20:31	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	20:31	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	20:31	LB137619
	Chromium	0.21	+/-1	U	2.00	P	10/22/2025	20:31	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	20:31	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	20:31	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	20:31	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	20:31	LB137619
	Magnesium	19.5	+/-250	U	500	P	10/22/2025	20:31	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	20:31	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	20:31	LB137619
	Potassium	43.9	+/-250	J	500	P	10/22/2025	20:31	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	20:31	LB137619
	Silver	0.060	+/-0.5	U	1.00	P	10/22/2025	20:31	LB137619
	Sodium	128	+/-250	U	500	P	10/22/2025	20:31	LB137619

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3376
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	0.060	+/-0.5	U	1.00	P	10/22/2025	20:31	LB137619
	Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	20:31	LB137619
	Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	20:31	LB137619
CCB10	Aluminum	1.94	+/-10	U	20.0	P	10/22/2025	21:06	LB137619
	Antimony	0.19	+/-1	J	2.00	P	10/22/2025	21:06	LB137619
	Arsenic	0.089	+/-0.5	U	1.00	P	10/22/2025	21:06	LB137619
	Barium	0.21	+/-5	U	10.0	P	10/22/2025	21:06	LB137619
	Beryllium	0.32	+/-0.5	U	1.00	P	10/22/2025	21:06	LB137619
	Cadmium	0.34	+/-0.5	U	1.00	P	10/22/2025	21:06	LB137619
	Calcium	45.7	+/-250	U	500	P	10/22/2025	21:06	LB137619
	Chromium	0.21	+/-1	U	2.00	P	10/22/2025	21:06	LB137619
	Cobalt	0.070	+/-0.5	U	1.00	P	10/22/2025	21:06	LB137619
	Copper	0.30	+/-1	U	2.00	P	10/22/2025	21:06	LB137619
	Iron	7.81	+/-25	U	50.0	P	10/22/2025	21:06	LB137619
	Lead	0.21	+/-0.5	U	1.00	P	10/22/2025	21:06	LB137619
	Magnesium	19.5	+/-250	U	500	P	10/22/2025	21:06	LB137619
	Manganese	0.43	+/-0.5	U	1.00	P	10/22/2025	21:06	LB137619
	Nickel	0.27	+/-0.5	U	1.00	P	10/22/2025	21:06	LB137619
	Potassium	36.4	+/-250	U	500	P	10/22/2025	21:06	LB137619
	Selenium	2.90	+/-2.5	U	5.00	P	10/22/2025	21:06	LB137619
	Silver	0.060	+/-0.5	U	1.00	P	10/22/2025	21:06	LB137619
	Sodium	128	+/-250	U	500	P	10/22/2025	21:06	LB137619
	Thallium	0.060	+/-0.5	U	1.00	P	10/22/2025	21:06	LB137619
	Vanadium	0.077	+/-2.5	U	5.00	P	10/22/2025	21:06	LB137619
	Zinc	1.25	+/-2.5	U	5.00	P	10/22/2025	21:06	LB137619

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3376

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB170170BL		SOLID		Batch Number:	PB170170		Prep Date:	10/20/2025	
	Mercury	0.0080	<0.014	U	0.014	CV	10/20/2025	14:42	LB137584

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: AECOM

SDG No.: Q3376

Instrument: P7

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB170158BL	SOLID			Batch Number:	PB170158		Prep Date:	10/20/2025	
	Aluminum	0.36	<1	U	2.00	P	10/22/2025	15:20	LB137619
	Antimony	0.045	<0.1	U	0.20	P	10/22/2025	15:20	LB137619
	Arsenic	0.012	<0.05	U	0.10	P	10/22/2025	15:20	LB137619
	Barium	0.033	<0.5	U	1.00	P	10/22/2025	15:20	LB137619
	Beryllium	0.032	<0.05	U	0.10	P	10/22/2025	15:20	LB137619
	Cadmium	0.018	<0.05	U	0.10	P	10/22/2025	15:20	LB137619
	Calcium	4.79	<25	U	50.0	P	10/22/2025	15:20	LB137619
	Chromium	0.026	<0.1	U	0.20	P	10/22/2025	15:20	LB137619
	Cobalt	0.0090	<0.05	U	0.10	P	10/22/2025	15:20	LB137619
	Copper	0.065	<0.1	U	0.20	P	10/22/2025	15:20	LB137619
	Iron	0.92	<2.5	U	5.00	P	10/22/2025	15:20	LB137619
	Lead	0.032	<0.05	U	0.10	P	10/22/2025	15:20	LB137619
	Magnesium	1.93	<25	U	50.0	P	10/22/2025	15:20	LB137619
	Manganese	0.034	<0.05	U	0.10	P	10/22/2025	15:20	LB137619
	Nickel	0.043	<0.05	U	0.10	P	10/22/2025	15:20	LB137619
	Potassium	3.84	<25	U	50.0	P	10/22/2025	15:20	LB137619
	Selenium	0.28	<0.25	U	0.50	P	10/22/2025	15:20	LB137619
	Silver	0.026	<0.05	U	0.10	P	10/22/2025	15:20	LB137619
	Sodium	7.02	<25	U	50.0	P	10/22/2025	15:20	LB137619
	Thallium	0.014	<0.05	U	0.10	P	10/22/2025	15:20	LB137619
	Vanadium	0.011	<0.25	U	0.50	P	10/22/2025	15:20	LB137619
	Zinc	0.090	<0.25	U	0.50	P	10/22/2025	15:20	LB137619

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>AECOM</u>	SDG No.: <u>Q3376</u>
Contract: <u>AECO02</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P7</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	94400	100000	94	0	0	10/22/2025	13:20	LB137619
	Antimony	1.18	1.5	79	-2.5	5.5	10/22/2025	13:20	LB137619
	Arsenic	0.41	0.1	410	-1.9	2.1	10/22/2025	13:20	LB137619
	Barium	1.43	1.2	119	-18.8	21.2	10/22/2025	13:20	LB137619
	Beryllium	0.34			-2	2	10/22/2025	13:20	LB137619
	Cadmium	0.22	0.7	31	-1.3	2.7	10/22/2025	13:20	LB137619
	Calcium	103000	100000	103	0	0	10/22/2025	13:20	LB137619
	Chromium	20.4	21.0	97	17	25	10/22/2025	13:20	LB137619
	Cobalt	1.30	1.0	130	-1	3	10/22/2025	13:20	LB137619
	Copper	7.49	8.0	94	4	12	10/22/2025	13:20	LB137619
	Iron	106000	100000	106	0	0	10/22/2025	13:20	LB137619
	Lead	4.32	4.0	108	2	6	10/22/2025	13:20	LB137619
	Magnesium	96600	100000	97	0	0	10/22/2025	13:20	LB137619
	Manganese	7.76	7.0	111	5	9	10/22/2025	13:20	LB137619
	Nickel	5.51	6.0	92	4	8	10/22/2025	13:20	LB137619
	Potassium	104000	100000	104	0	0	10/22/2025	13:20	LB137619
	Selenium	0	0.3		-9.7	10	10/22/2025	13:20	LB137619
	Silver	0.040			-2	2	10/22/2025	13:20	LB137619
	Sodium	104000	100000	104	0	0	10/22/2025	13:20	LB137619
	Thallium	0.060			-2	2	10/22/2025	13:20	LB137619
	Vanadium	0.24	0.5	48	-9.5	10.5	10/22/2025	13:20	LB137619
	Zinc	10.7	11.0	98	1	21	10/22/2025	13:20	LB137619
ICSAB01	Aluminum	95400	100000	95	0	0	10/22/2025	13:23	LB137619
	Antimony	21.2	22.0	96	18	26	10/22/2025	13:23	LB137619
	Arsenic	18.9	19.0	100	16.2	21.9	10/22/2025	13:23	LB137619
	Barium	21.4	22.0	97	2	42	10/22/2025	13:23	LB137619
	Beryllium	21.6	19.0	114	16.2	21.9	10/22/2025	13:23	LB137619
	Cadmium	20.1	20.0	100	17	23	10/22/2025	13:23	LB137619
	Calcium	101000	100000	101	0	0	10/22/2025	13:23	LB137619
	Chromium	41.2	40.0	103	34	46	10/22/2025	13:23	LB137619
	Cobalt	22.1	20.0	110	17	23	10/22/2025	13:23	LB137619
	Copper	26.8	25.0	107	21	29	10/22/2025	13:23	LB137619
	Iron	106000	100000	106	0	0	10/22/2025	13:23	LB137619
	Lead	23.0	25.0	92	21.3	28.8	10/22/2025	13:23	LB137619
	Magnesium	96100	100000	96	0	0	10/22/2025	13:23	LB137619
	Manganese	26.8	27.0	99	23	31.1	10/22/2025	13:23	LB137619
	Nickel	26.6	24.0	111	20.4	27.6	10/22/2025	13:23	LB137619
	Potassium	104000	100000	104	0	0	10/22/2025	13:23	LB137619
	Selenium	19.1	19.0	100	9	29	10/22/2025	13:23	LB137619
	Silver	19.8	18.0	110	15.3	20.7	10/22/2025	13:23	LB137619
	Sodium	104000	100000	104	0	0	10/22/2025	13:23	LB137619
	Thallium	19.9	21.0	95	17.9	24.2	10/22/2025	13:23	LB137619

Metals

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INTERFERENCE CHECK SAMPLE

Client: AECOM

SDG No.: Q3376

Contract: AECO02

Lab Code: ACE

ICS Source: EPA

Instrument ID: P7

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	20.9	19.0	110	9	29	10/22/2025	13:23	LB137619
	Zinc	31.0	29.0	107	19	39	10/22/2025	13:23	LB137619



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: AECOM level: low sdg no.: Q3376
contract: AECO02 lab code: ACE
matrix: Solid sample id: Q3374-05 client id: TP-5-WCMS
Percent Solids for Sample: 93.1 Spiked ID: Q3374-05MS Percent Solids for Spike Sample: 93.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.013	U	0.28	96		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>AECOM</u>	level: <u>low</u>	sdg no.: <u>Q3376</u>
contract: <u>AECO02</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q3374-05</u>	client id: <u>TP-5-WCMSD</u>
Percent Solids for Sample: 93.1	Spiked ID: Q3374-05MSD	Percent Solids for Spike Sample: 93.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.013	U	0.28	96		CV

metals
- 5a -
MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3376
contract: AECO02 **lab code:** ACE
matrix: Solid **sample id:** Q3376-05 **client id:** PR132-S12-020047-20251016MS
Percent Solids for Sample: 66.8 **Spiked ID:** Q3376-05MS **Percent Solids for Spike Sample:** 66.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7710		6330		1300	109		P
Antimony	mg/Kg	75 - 125	60.1		0.080	J	63.4	95		P
Arsenic	mg/Kg	75 - 125	62.1		7.86		63.4	85		P
Barium	mg/Kg	75 - 125	337		52.4		320	90		P
Beryllium	mg/Kg	75 - 125	57.5		0.74		63.4	89		P
Cadmium	mg/Kg	75 - 125	61.4		1.03		63.4	95		P
Calcium	mg/Kg	75 - 125	11100		4870		6300	99		P
Chromium	mg/Kg	75 - 125	116		49.4		63.4	106		P
Cobalt	mg/Kg	75 - 125	65.6		8.16		63.4	91		P
Copper	mg/Kg	75 - 125	646		103		630	86		P
Iron	mg/Kg	75 - 125	21200		17500		3200	116		P
Lead	mg/Kg	75 - 125	455		235		320	69	N	P
Magnesium	mg/Kg	75 - 125	13400		7170		6300	98		P
Manganese	mg/Kg	75 - 125	753		199		630	87		P
Nickel	mg/Kg	75 - 125	115		56.0		63.4	93		P
Potassium	mg/Kg	75 - 125	4290		1500		3200	88		P
Selenium	mg/Kg	75 - 125	51.5		0.59	J	63.4	80		P
Silver	mg/Kg	75 - 125	11.9		1.80		63.4	16	N	P
Sodium	mg/Kg	75 - 125	11000		4580		6300	101		P
Thallium	mg/Kg	75 - 125	58.8		0.22		63.4	92		P
Vanadium	mg/Kg	75 - 125	80.1		20.6		63.4	94		P
Zinc	mg/Kg	75 - 125	794		259		630	84		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>AECOM</u>	level: <u>low</u>	sdg no.: <u>Q3376</u>
contract: <u>AECO02</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q3376-05</u>	client id: <u>PR132-S12-020047-20251016MSD</u>
Percent Solids for Sample: 66.8	Spiked ID: Q3376-05MSD	Percent Solids for Spike Sample: 66.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7900		6330		1300	122		P
Antimony	mg/Kg	75 - 125	60.9		0.080	J	64.5	94		P
Arsenic	mg/Kg	75 - 125	63.1		7.86		64.5	86		P
Barium	mg/Kg	75 - 125	341		52.4		320	90		P
Beryllium	mg/Kg	75 - 125	59.8		0.74		64.5	92		P
Cadmium	mg/Kg	75 - 125	61.3		1.03		64.5	93		P
Calcium	mg/Kg	75 - 125	11300		4870		6500	100		P
Chromium	mg/Kg	75 - 125	119		49.4		64.5	108		P
Cobalt	mg/Kg	75 - 125	66.4		8.16		64.5	90		P
Copper	mg/Kg	75 - 125	657		103		650	86		P
Iron	mg/Kg	75 - 125	21600		17500		3200	127		P
Lead	mg/Kg	75 - 125	473		235		320	74	N	P
Magnesium	mg/Kg	75 - 125	13500		7170		6500	99		P
Manganese	mg/Kg	75 - 125	765		199		650	88		P
Nickel	mg/Kg	75 - 125	116		56.0		64.5	93		P
Potassium	mg/Kg	75 - 125	4350		1500		3200	88		P
Selenium	mg/Kg	75 - 125	53.6		0.59	J	64.5	82		P
Silver	mg/Kg	75 - 125	12.1		1.80		64.5	16	N	P
Sodium	mg/Kg	75 - 125	11100		4580		6500	101		P
Thallium	mg/Kg	75 - 125	60.8		0.22		64.5	94		P
Vanadium	mg/Kg	75 - 125	81.7		20.6		64.5	95		P
Zinc	mg/Kg	75 - 125	801		259		650	84		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: AECOM

Contract: AECO02

Matrix: Solid

Sample ID: Q3376-05

SDG No.: Q3376

Lab Code: ACE

Client ID: PR132-S12-020047-20251016A

Level: LOW

Spiked ID: Q3376-05A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	mg/Kg	75 - 125	520		235		310	92		P
Silver	mg/Kg	75 - 125	11.0		1.80		62.4	15	N	P

A
B
C
D
E
F
G
H

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: <u>AECOM</u>	Level: <u>LOW</u>	SDG No.: <u>Q3376</u>
Contract: <u>AECO02</u>		Lab Code: <u>ACE</u>
Matrix: <u>Solid</u>	Sample ID: <u>Q3374-05</u>	Client ID: <u>TP-5-WCDUP</u>
Percent Solids for Sample: 93.1	Duplicate ID Q3374-05DUP	Percent Solids for Spike Sample: 93.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.013	U	0.013	U			CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: <u>AECOM</u>	Level: <u>LOW</u>	SDG No.: <u>Q3376</u>
Contract: <u>AECO02</u>		Lab Code: <u>ACE</u>
Matrix: <u>Solid</u>	Sample ID: <u>Q3374-05MS</u>	Client ID: <u>TP-5-WCMSD</u>
Percent Solids for Sample: 93.1	Duplicate ID Q3374-05MSD	Percent Solids for Spike Sample: 93.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.27		0.27		1		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q3376
Contract: AECO02 **Lab Code:** ACE
Matrix: Solid **Sample ID:** Q3376-05 **Client ID:** PR132-S12-020047-20251016DUP
Percent Solids for Sample: 66.8 **Duplicate ID** Q3376-05DUP **Percent Solids for Spike Sample:** 66.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6330		6790		7		P
Antimony	mg/Kg	20	0.080	J	0.11	J	35		P
Arsenic	mg/Kg	20	7.86		8.25		5		P
Barium	mg/Kg	20	52.4		60.7		15		P
Beryllium	mg/Kg	20	0.74		0.76		3		P
Cadmium	mg/Kg	20	1.03		1.12		8		P
Calcium	mg/Kg	20	4870		5140		5		P
Chromium	mg/Kg	20	49.4		53.0		7		P
Cobalt	mg/Kg	20	8.16		8.77		7		P
Copper	mg/Kg	20	103		110		7		P
Iron	mg/Kg	20	17500		18900		8		P
Lead	mg/Kg	20	235		245		4		P
Magnesium	mg/Kg	20	7170		7670		7		P
Manganese	mg/Kg	20	199		214		7		P
Nickel	mg/Kg	20	56.0		60.0		7		P
Potassium	mg/Kg	20	1500		1610		7		P
Selenium	mg/Kg	20	0.59	J	0.52	J	14		P
Silver	mg/Kg	20	1.80		1.87		4		P
Sodium	mg/Kg	20	4580		4920		7		P
Thallium	mg/Kg	20	0.22		0.19		14		P
Vanadium	mg/Kg	20	20.6		21.9		6		P
Zinc	mg/Kg	20	259		278		7		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q3376
Contract: AECO02 **Lab Code:** ACE
Matrix: Solid **Sample ID:** Q3376-05MS **Client ID:** PR132-S12-020047-20251016MSD
Percent Solids for Sample: 66.8 **Duplicate ID** Q3376-05MSD **Percent Solids for Spike Sample:** 66.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	7710		7900		2		P
Antimony	mg/Kg	20	60.1		60.9		1		P
Arsenic	mg/Kg	20	62.1		63.1		2		P
Barium	mg/Kg	20	337		341		1		P
Beryllium	mg/Kg	20	57.5		59.8		4		P
Cadmium	mg/Kg	20	61.4		61.3		0		P
Calcium	mg/Kg	20	11100		11300		2		P
Chromium	mg/Kg	20	116		119		3		P
Cobalt	mg/Kg	20	65.6		66.4		1		P
Copper	mg/Kg	20	646		657		2		P
Iron	mg/Kg	20	21200		21600		2		P
Lead	mg/Kg	20	455		473		4		P
Magnesium	mg/Kg	20	13400		13500		1		P
Manganese	mg/Kg	20	753		765		2		P
Nickel	mg/Kg	20	115		116		1		P
Potassium	mg/Kg	20	4290		4350		1		P
Selenium	mg/Kg	20	51.5		53.6		4		P
Silver	mg/Kg	20	11.9		12.1		2		P
Sodium	mg/Kg	20	11000		11100		1		P
Thallium	mg/Kg	20	58.8		60.8		3		P
Vanadium	mg/Kg	20	80.1		81.7		2		P
Zinc	mg/Kg	20	794		801		1		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>AECOM</u>	SDG No.:	<u>Q3376</u>
Contract:	<u>AECO02</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170158BS							
Aluminum	mg/Kg	1000	1060		106	80 - 120	P
Antimony	mg/Kg	50.0	52.3		105	80 - 120	P
Arsenic	mg/Kg	50.0	50.6		101	80 - 120	P
Barium	mg/Kg	250	255		102	80 - 120	P
Beryllium	mg/Kg	50.0	51.4		103	80 - 120	P
Cadmium	mg/Kg	50.0	51.8		104	80 - 120	P
Calcium	mg/Kg	5000	5220		104	80 - 120	P
Chromium	mg/Kg	50.0	58.9		118	80 - 120	P
Cobalt	mg/Kg	50.0	51.5		103	80 - 120	P
Copper	mg/Kg	500	524		105	80 - 120	P
Iron	mg/Kg	2500	2800		112	80 - 120	P
Lead	mg/Kg	250	255		102	80 - 120	P
Magnesium	mg/Kg	5000	5250		105	80 - 120	P
Manganese	mg/Kg	500	514		103	80 - 120	P
Nickel	mg/Kg	50.0	56.1		112	80 - 120	P
Potassium	mg/Kg	2500	2610		104	80 - 120	P
Selenium	mg/Kg	50.0	51.3		103	80 - 120	P
Silver	mg/Kg	50.0	42.1		84	80 - 120	P
Sodium	mg/Kg	5000	5280		106	80 - 120	P
Thallium	mg/Kg	50.0	51.5		103	80 - 120	P
Vanadium	mg/Kg	50.0	51.3		103	80 - 120	P
Zinc	mg/Kg	500	531		106	80 - 120	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: AECOM

SDG No.: Q3376

Contract: AECO02

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170170BS Mercury	mg/Kg	0.28	0.26		94	80 - 120	CV



ICP-MS	INTERNAL	STANDARD	RELATIVE	INTENSITY	SUMMARY
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End Date : 10/22/2025

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM

Contract: AECO02

Lab Code: ACE

SDG No.: Q3376

Instrument ID: P7

Start Date : 10/22/2025

Run Number: LB137619

End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1154	100		100		100		100		100	
S2	S2	1157	99		98		101		99		99	
S3	S3	1204	98		99		99		98		97	
S4	S4	1207	96		96		99		98		99	
S5	S5	1210	96		94		96		95		99	
S6	S6	1213	97		93		96		95		100	
S7	S7	1216	98		95		97		96		102	
S8	S8	1219	101		101		101		94		104	
ICV01	ICV01	1238	96		100		102		101		100	
LLICV01	LLICV01	1312	92		97		100		98		97	
ICB01	ICB01	1316	93		99		99		98		97	
ICSA01	ICSA01	1320	94		100		101		97		102	
ICSAB01	ICSAB01	1323	95		104		107		103		108	
CCV01	CCV01	1327	95		105		106		100		105	
CCB01	CCB01	1330	90		98		101		99		99	
CRI01	CRI01	1333	92		100		101		101		101	
ZZZZZZ	ZZZZZZ	1340										
ZZZZZZ	ZZZZZZ	1343										
ZZZZZZ	ZZZZZZ	1346										
ZZZZZZ	ZZZZZZ	1349										
ZZZZZZ	ZZZZZZ	1353										
ZZZZZZ	ZZZZZZ	1356										
ZZZZZZ	ZZZZZZ	1359										
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1408										
CCV02	CCV02	1411	95		104		105		99		104	
CCB02	CCB02	1418	92		99		101		103		100	
ZZZZZZ	ZZZZZZ	1421										
ZZZZZZ	ZZZZZZ	1424										
ZZZZZZ	ZZZZZZ	1427										
ZZZZZZ	ZZZZZZ	1430										
ZZZZZZ	ZZZZZZ	1434										
ZZZZZZ	ZZZZZZ	1437										
ZZZZZZ	ZZZZZZ	1440										
ZZZZZZ	ZZZZZZ	1443										
ZZZZZZ	ZZZZZZ	1446										

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM

Contract: AECO02

Lab Code: ACE

SDG No.: Q3376

Instrument ID: P7

Start Date : 10/22/2025

Run Number: LB137619

End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	ZZZZZZ	1449										
CCV03	CCV03	1454	90		100		102		96		101	
CCB03	CCB03	1505	89		99		101		100		100	
ZZZZZZ	ZZZZZZ	1514										
ZZZZZZ	ZZZZZZ	1517										
PB170158BL	PB170158BL	1520	89		96		98		98		99	
PB170158BS	PB170158BS	1524	92		98		100		97		101	
ZZZZZZ	ZZZZZZ	1527										
ZZZZZZ	ZZZZZZ	1530										
ZZZZZZ	ZZZZZZ	1533										
ZZZZZZ	ZZZZZZ	1536										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1542										
CCV04	CCV04	1545	92		99		101		96		101	
CCB04	CCB04	1600	87		96		98		98		97	
ZZZZZZ	ZZZZZZ	1603										
Q3376-01	PR132-S05-01	1606	94		109		122		100		103	
Q3376-02	PR132-DP01-01	1609	93		108		121		101		103	
Q3376-03	PR132-COMP2	1613	94		112		129		99		103	
Q3376-04	PR132-S12-01	1616	91		109		125		96		102	
Q3376-05	PR132-S12-01	1619	90		105		114		99		102	
Q3376-05L	PR132-S12-01	1625	89		100		103		100		101	
Q3376-05MSD	PR132-S12-01	1631	90		103		113		96		103	
Q3376-05DUP	PR132-S12-01	1640	93		106		116		99		104	
Q3376-05MS	PR132-S12-01	1643	95		107		118		98		105	
CCV05	CCV05	1646	94		102		103		99		105	
CCB05	CCB05	1655	87		95		98		98		100	
Q3376-05A	PR132-S12-01	1700	93		106		116		97		104	
ZZZZZZ	ZZZZZZ	1715										
ZZZZZZ	ZZZZZZ	1718										
ZZZZZZ	ZZZZZZ	1722										
ZZZZZZ	ZZZZZZ	1725										
ZZZZZZ	ZZZZZZ	1728										
ZZZZZZ	ZZZZZZ	1731										
ZZZZZZ	ZZZZZZ	1734										
ZZZZZZ	ZZZZZZ	1741										

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM

Contract: AECO02

Lab Code: ACE

SDG No.: Q3376

Instrument ID: P7

Start Date : 10/22/2025

Run Number: LB137619

End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	ZZZZZZ	1744										
CCV06	CCV06	1759	85		95		97		93		102	
CCB06	CCB06	1810	82		90		93		94		97	
ZZZZZZ	ZZZZZZ	1815										
ZZZZZZ	ZZZZZZ	1818										
ZZZZZZ	ZZZZZZ	1821										
ZZZZZZ	ZZZZZZ	1823										
ZZZZZZ	ZZZZZZ	1826										
ZZZZZZ	ZZZZZZ	1829										
CCV07	CCV07	1841	84		94		98		93		99	
CCB07	CCB07	1849	80		90		94		95		96	
ZZZZZZ	ZZZZZZ	1912										
ZZZZZZ	ZZZZZZ	1915										
ZZZZZZ	ZZZZZZ	1918										
ZZZZZZ	ZZZZZZ	1922										
ZZZZZZ	ZZZZZZ	1925										
ZZZZZZ	ZZZZZZ	1928										
ZZZZZZ	ZZZZZZ	1931										
ZZZZZZ	ZZZZZZ	1934										
ZZZZZZ	ZZZZZZ	1937										
ZZZZZZ	ZZZZZZ	1941										
CCV08	CCV08	1944	84		92		96		92		98	
CCB08	CCB08	1952	78		89		92		92		94	
ZZZZZZ	ZZZZZZ	1957										
Q3376-01	PR132-S05-0	2000	80		91		96		91		96	
Q3376-02	PR132-DP01-	2003	82		93		98		94		96	
Q3376-03	PR132-COMP2	2006	83		95		99		94		97	
Q3376-04	PR132-S12-0	2009	81		93		102		95		97	
ZZZZZZ	ZZZZZZ	2012										
ZZZZZZ	ZZZZZZ	2016										
ZZZZZZ	ZZZZZZ	2019										
ZZZZZZ	ZZZZZZ	2022										
ZZZZZZ	ZZZZZZ	2025										
CCV09	CCV09	2028	83		92		94		91		97	
CCB09	CCB09	2031	80		89		92		91		95	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM

Contract: AECO02

Lab Code: ACE

SDG No.: Q3376

Instrument ID: P7

Start Date : 10/22/2025

Run Number: LB137619

End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1154	100		100		100		100		100	
S2	S2	1157	99		99		100		98		99	
S3	S3	1204	98		97		97		98		97	
S4	S4	1207	96		97		94		97		99	
S5	S5	1210	95		95		93		96		97	
S6	S6	1213	96		95		95		99		100	
S7	S7	1216	97		95		94		100		101	
S8	S8	1219	105		104		94		103		105	
ICV01	ICV01	1238	101		102		100		101		102	
LLICV01	LLICV01	1312	98		99		97		98		99	
ICB01	ICB01	1316	99		101		99		99		100	
ICSA01	ICSA01	1320	101		100		97		101		103	
ICSAB01	ICSAB01	1323	104		102		100		104		105	
CCV01	CCV01	1327	103		102		97		103		105	
CCB01	CCB01	1330	98		100		99		99		100	
CRI01	CRI01	1333	99		99		99		101		101	
ZZZZZZ	ZZZZZZ	1340										
ZZZZZZ	ZZZZZZ	1343										
ZZZZZZ	ZZZZZZ	1346										
ZZZZZZ	ZZZZZZ	1349										
ZZZZZZ	ZZZZZZ	1353										
ZZZZZZ	ZZZZZZ	1356										
ZZZZZZ	ZZZZZZ	1359										
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1408										
CCV02	CCV02	1411	104		104		98		105		105	
CCB02	CCB02	1418	100		102		102		103		104	
ZZZZZZ	ZZZZZZ	1421										
ZZZZZZ	ZZZZZZ	1424										
ZZZZZZ	ZZZZZZ	1427										
ZZZZZZ	ZZZZZZ	1430										
ZZZZZZ	ZZZZZZ	1434										
ZZZZZZ	ZZZZZZ	1437										
ZZZZZZ	ZZZZZZ	1440										
ZZZZZZ	ZZZZZZ	1443										
ZZZZZZ	ZZZZZZ	1446										

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM

Contract: AECO02

Lab Code: ACE

SDG No.: Q3376

Instrument ID: P7

Start Date : 10/22/2025

Run Number: LB137619

End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
ZZZZZZ	ZZZZZZ	1449										
CCV03	CCV03	1454	101		101		96		104		103	
CCB03	CCB03	1505	97		100		99		102		102	
ZZZZZZ	ZZZZZZ	1514										
ZZZZZZ	ZZZZZZ	1517										
PB170158BL	PB170158BL	1520	95		97		97		101		100	
PB170158BS	PB170158BS	1524	96		97		97		100		102	
ZZZZZZ	ZZZZZZ	1527										
ZZZZZZ	ZZZZZZ	1530										
ZZZZZZ	ZZZZZZ	1533										
ZZZZZZ	ZZZZZZ	1536										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1542										
CCV04	CCV04	1545	99		98		95		101		102	
CCB04	CCB04	1600	94		97		96		98		100	
ZZZZZZ	ZZZZZZ	1603										
Q3376-01	PR132-S05-01	1606	110		121		100		106		106	
Q3376-02	PR132-DP01-01	1609	109		122		100		105		104	
Q3376-03	PR132-COMP2	1613	113		128		99		106		105	
Q3376-04	PR132-S12-01	1616	111		124		97		104		105	
Q3376-05	PR132-S12-01	1619	106		116		98		104		104	
Q3376-05L	PR132-S12-01	1625	102		104		100		103		103	
Q3376-05MSD	PR132-S12-01	1631	105		114		96		103		103	
Q3376-05DUP	PR132-S12-01	1640	107		119		101		108		108	
Q3376-05MS	PR132-S12-01	1643	108		118		99		107		107	
CCV05	CCV05	1646	103		102		99		107		108	
CCB05	CCB05	1655	94		98		98		101		102	
Q3376-05A	PR132-S12-01	1700	106		115		101		109		107	
ZZZZZZ	ZZZZZZ	1715										
ZZZZZZ	ZZZZZZ	1718										
ZZZZZZ	ZZZZZZ	1722										
ZZZZZZ	ZZZZZZ	1725										
ZZZZZZ	ZZZZZZ	1728										
ZZZZZZ	ZZZZZZ	1731										
ZZZZZZ	ZZZZZZ	1734										
ZZZZZZ	ZZZZZZ	1741										

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM

Contract: AECO02

Lab Code: ACE

SDG No.: Q3376

Instrument ID: P7

Start Date : 10/22/2025

Run Number: LB137619

End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
ZZZZZZ	ZZZZZZ	1744										
CCV06	CCV06	1759	96		96		93		102		102	
CCB06	CCB06	1810	89		93		93		97		97	
ZZZZZZ	ZZZZZZ	1815										
ZZZZZZ	ZZZZZZ	1818										
ZZZZZZ	ZZZZZZ	1821										
ZZZZZZ	ZZZZZZ	1823										
ZZZZZZ	ZZZZZZ	1826										
ZZZZZZ	ZZZZZZ	1829										
CCV07	CCV07	1841	95		95		92		99		100	
CCB07	CCB07	1849	90		94		95		97		96	
ZZZZZZ	ZZZZZZ	1912										
ZZZZZZ	ZZZZZZ	1915										
ZZZZZZ	ZZZZZZ	1918										
ZZZZZZ	ZZZZZZ	1922										
ZZZZZZ	ZZZZZZ	1925										
ZZZZZZ	ZZZZZZ	1928										
ZZZZZZ	ZZZZZZ	1931										
ZZZZZZ	ZZZZZZ	1934										
ZZZZZZ	ZZZZZZ	1937										
ZZZZZZ	ZZZZZZ	1941										
CCV08	CCV08	1944	93		95		91		100		100	
CCB08	CCB08	1952	89		93		93		95		95	
ZZZZZZ	ZZZZZZ	1957										
Q3376-01	PR132-S05-0	2000	92		98		94		98		96	
Q3376-02	PR132-DP01-	2003	93		98		95		97		98	
Q3376-03	PR132-COMP2	2006	95		99		94		98		99	
Q3376-04	PR132-S12-0	2009	95		100		94		97		97	
ZZZZZZ	ZZZZZZ	2012										
ZZZZZZ	ZZZZZZ	2016										
ZZZZZZ	ZZZZZZ	2019										
ZZZZZZ	ZZZZZZ	2022										
ZZZZZZ	ZZZZZZ	2025										
CCV09	CCV09	2028	92		93		90		98		98	
CCB09	CCB09	2031	89		94		93		97		96	

Internal Standard %RI Limit: 70 - 130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM

Contract: AECO02

Lab Code: ACE

SDG No.: Q3376

Instrument ID: P7

Start Date : 10/22/2025

Run Number: LB137619

End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1154	100		100							
S2	S2	1157	98		99							
S3	S3	1204	97		99							
S4	S4	1207	99		100							
S5	S5	1210	99		99							
S6	S6	1213	101		102							
S7	S7	1216	102		103							
S8	S8	1219	103		95							
ICV01	ICV01	1238	100		100							
LLICV01	LLICV01	1312	97		96							
ICB01	ICB01	1316	97		95							
ICSA01	ICSA01	1320	101		98							
ICSAB01	ICSAB01	1323	105		100							
CCV01	CCV01	1327	106		100							
CCB01	CCB01	1330	99		97							
CRI01	CRI01	1333	101		99							
ZZZZZZ	ZZZZZZ	1340										
ZZZZZZ	ZZZZZZ	1343										
ZZZZZZ	ZZZZZZ	1346										
ZZZZZZ	ZZZZZZ	1349										
ZZZZZZ	ZZZZZZ	1353										
ZZZZZZ	ZZZZZZ	1356										
ZZZZZZ	ZZZZZZ	1359										
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1408										
CCV02	CCV02	1411	104		98							
CCB02	CCB02	1418	101		99							
ZZZZZZ	ZZZZZZ	1421										
ZZZZZZ	ZZZZZZ	1424										
ZZZZZZ	ZZZZZZ	1427										
ZZZZZZ	ZZZZZZ	1430										
ZZZZZZ	ZZZZZZ	1434										
ZZZZZZ	ZZZZZZ	1437										
ZZZZZZ	ZZZZZZ	1440										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM
Lab Code: ACE
Instrument ID: P7
Run Number: LB137619

Contract: AECO02
SDG No.: Q3376
Start Date : 10/22/2025
End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	1443										
ZZZZZZ	ZZZZZZ	1446										
ZZZZZZ	ZZZZZZ	1449										
CCV03	CCV03	1454	101		94							
CCB03	CCB03	1505	100		97							
ZZZZZZ	ZZZZZZ	1514										
ZZZZZZ	ZZZZZZ	1517										
PB170158BL	PB170158BL	1520	99		99							
PB170158BS	PB170158BS	1524	102		99							
ZZZZZZ	ZZZZZZ	1527										
ZZZZZZ	ZZZZZZ	1530										
ZZZZZZ	ZZZZZZ	1533										
ZZZZZZ	ZZZZZZ	1536										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1542										
CCV04	CCV04	1545	101		96							
CCB04	CCB04	1600	95		96							
ZZZZZZ	ZZZZZZ	1603										
Q3376-01	PR132-S05-05	1606	103		107							
Q3376-02	PR132-DP01-2	1609	104		105							
Q3376-03	PR132-COMP2-	1613	102		106							
Q3376-04	PR132-S12-04	1616	100		101							
Q3376-05	PR132-S12-02	1619	102		96							
Q3376-05L	PR132-S12-02	1625	99		97							
Q3376-05MSD	PR132-S12-02	1631	102		98							
Q3376-05DUP	PR132-S12-02	1640	105		103							
Q3376-05MS	PR132-S12-02	1643	105		102							
CCV05	CCV05	1646	107		99							
CCB05	CCB05	1655	100		98							
Q3376-05A	PR132-S12-02	1700	105		102							
ZZZZZZ	ZZZZZZ	1715										
ZZZZZZ	ZZZZZZ	1718										
ZZZZZZ	ZZZZZZ	1722										
ZZZZZZ	ZZZZZZ	1725										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM
Lab Code: ACE
Instrument ID: P7
Run Number: LB137619

Contract: AECO02
SDG No.: Q3376
Start Date : 10/22/2025
End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	1728										
ZZZZZZ	ZZZZZZ	1731										
ZZZZZZ	ZZZZZZ	1734										
ZZZZZZ	ZZZZZZ	1741										
ZZZZZZ	ZZZZZZ	1744										
CCV06	CCV06	1759	101		94							
CCB06	CCB06	1810	97		95							
ZZZZZZ	ZZZZZZ	1815										
ZZZZZZ	ZZZZZZ	1818										
ZZZZZZ	ZZZZZZ	1821										
ZZZZZZ	ZZZZZZ	1823										
ZZZZZZ	ZZZZZZ	1826										
ZZZZZZ	ZZZZZZ	1829										
CCV07	CCV07	1841	100		93							
CCB07	CCB07	1849	96		95							
ZZZZZZ	ZZZZZZ	1912										
ZZZZZZ	ZZZZZZ	1915										
ZZZZZZ	ZZZZZZ	1918										
ZZZZZZ	ZZZZZZ	1922										
ZZZZZZ	ZZZZZZ	1925										
ZZZZZZ	ZZZZZZ	1928										
ZZZZZZ	ZZZZZZ	1931										
ZZZZZZ	ZZZZZZ	1934										
ZZZZZZ	ZZZZZZ	1937										
ZZZZZZ	ZZZZZZ	1941										
CCV08	CCV08	1944	100		93							
CCB08	CCB08	1952	93		93							
ZZZZZZ	ZZZZZZ	1957										
Q3376-01	PR132-S05-05	2000	95		94							
Q3376-02	PR132-DP01-2	2003	97		95							
Q3376-03	PR132-COMP2-	2006	96		95							
Q3376-04	PR132-S12-04	2009	96		93							
ZZZZZZ	ZZZZZZ	2012										
ZZZZZZ	ZZZZZZ	2016										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM

Contract: AECO02

Lab Code: ACE

SDG No.: Q3376

Instrument ID: P7

Start Date : 10/22/2025

Run Number: LB137619

End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	2019										
ZZZZZZ	ZZZZZZ	2022										
ZZZZZZ	ZZZZZZ	2025										
CCV09	CCV09	2028	98		91							
CCB09	CCB09	2031	93		92							

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM

Contract: AECO02

Lab Code: ACE

SDG No.: Q3376

Instrument ID: P7

Start Date : 10/22/2025

Run Number: LB137619

End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1154	100									
S2	S2	1157	101									
S3	S3	1204	99									
S4	S4	1207	97									
S5	S5	1210	97									
S6	S6	1213	98									
S7	S7	1216	97									
S8	S8	1219	94									
ICV01	ICV01	1238	102									
LLICV01	LLICV01	1312	97									
ICB01	ICB01	1316	99									
ICSA01	ICSA01	1320	95									
ICSAB01	ICSAB01	1323	99									
CCV01	CCV01	1327	96									
CCB01	CCB01	1330	98									
CRI01	CRI01	1333	99									
ZZZZZZ	ZZZZZZ	1340										
ZZZZZZ	ZZZZZZ	1343										
ZZZZZZ	ZZZZZZ	1346										
ZZZZZZ	ZZZZZZ	1349										
ZZZZZZ	ZZZZZZ	1353										
ZZZZZZ	ZZZZZZ	1356										
ZZZZZZ	ZZZZZZ	1359										
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1408										
CCV02	CCV02	1411	97									
CCB02	CCB02	1418	100									
ZZZZZZ	ZZZZZZ	1421										
ZZZZZZ	ZZZZZZ	1424										
ZZZZZZ	ZZZZZZ	1427										
ZZZZZZ	ZZZZZZ	1430										
ZZZZZZ	ZZZZZZ	1434										
ZZZZZZ	ZZZZZZ	1437										
ZZZZZZ	ZZZZZZ	1440										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM
Lab Code: ACE
Instrument ID: P7
Run Number: LB137619

Contract: AECO02
SDG No.: Q3376
Start Date : 10/22/2025
End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	1443										
ZZZZZZ	ZZZZZZ	1446										
ZZZZZZ	ZZZZZZ	1449										
CCV03	CCV03	1454	93									
CCB03	CCB03	1505	99									
ZZZZZZ	ZZZZZZ	1514										
ZZZZZZ	ZZZZZZ	1517										
PB170158BL	PB170158BL	1520	96									
PB170158BS	PB170158BS	1524	97									
ZZZZZZ	ZZZZZZ	1527										
ZZZZZZ	ZZZZZZ	1530										
ZZZZZZ	ZZZZZZ	1533										
ZZZZZZ	ZZZZZZ	1536										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1542										
CCV04	CCV04	1545	93									
CCB04	CCB04	1600	95									
ZZZZZZ	ZZZZZZ	1603										
Q3376-01	PR132-S05-05	1606	106									
Q3376-02	PR132-DP01-2	1609	104									
Q3376-03	PR132-COMP2-	1613	105									
Q3376-04	PR132-S12-04	1616	100									
Q3376-05	PR132-S12-02	1619	97									
Q3376-05L	PR132-S12-02	1625	97									
Q3376-05MSD	PR132-S12-02	1631	97									
Q3376-05DUP	PR132-S12-02	1640	102									
Q3376-05MS	PR132-S12-02	1643	100									
CCV05	CCV05	1646	97									
CCB05	CCB05	1655	96									
Q3376-05A	PR132-S12-02	1700	100									
ZZZZZZ	ZZZZZZ	1715										
ZZZZZZ	ZZZZZZ	1718										
ZZZZZZ	ZZZZZZ	1722										
ZZZZZZ	ZZZZZZ	1725										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM
Lab Code: ACE
Instrument ID: P7
Run Number: LB137619

Contract: AECO02
SDG No.: Q3376
Start Date : 10/22/2025
End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	1728										
ZZZZZZ	ZZZZZZ	1731										
ZZZZZZ	ZZZZZZ	1734										
ZZZZZZ	ZZZZZZ	1741										
ZZZZZZ	ZZZZZZ	1744										
CCV06	CCV06	1759	93									
CCB06	CCB06	1810	93									
ZZZZZZ	ZZZZZZ	1815										
ZZZZZZ	ZZZZZZ	1818										
ZZZZZZ	ZZZZZZ	1821										
ZZZZZZ	ZZZZZZ	1823										
ZZZZZZ	ZZZZZZ	1826										
ZZZZZZ	ZZZZZZ	1829										
CCV07	CCV07	1841	91									
CCB07	CCB07	1849	93									
ZZZZZZ	ZZZZZZ	1912										
ZZZZZZ	ZZZZZZ	1915										
ZZZZZZ	ZZZZZZ	1918										
ZZZZZZ	ZZZZZZ	1922										
ZZZZZZ	ZZZZZZ	1925										
ZZZZZZ	ZZZZZZ	1928										
ZZZZZZ	ZZZZZZ	1931										
ZZZZZZ	ZZZZZZ	1934										
ZZZZZZ	ZZZZZZ	1937										
ZZZZZZ	ZZZZZZ	1941										
CCV08	CCV08	1944	89									
CCB08	CCB08	1952	93									
ZZZZZZ	ZZZZZZ	1957										
Q3376-01	PR132-S05-05	2000	93									
Q3376-02	PR132-DP01-2	2003	92									
Q3376-03	PR132-COMP2-	2006	95									
Q3376-04	PR132-S12-04	2009	93									
ZZZZZZ	ZZZZZZ	2012										
ZZZZZZ	ZZZZZZ	2016										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: AECOM

Contract: AECO02

Lab Code: ACE

SDG No.: Q3376

Instrument ID: P7

Start Date : 10/22/2025

Run Number: LB137619

End Date : 10/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	2019										
ZZZZZZ	ZZZZZZ	2022										
ZZZZZZ	ZZZZZZ	2025										
CCV09	CCV09	2028	88									
CCB09	CCB09	2031	93									

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-5-WCL

Lab Name: Alliance **Contract:** AECO02
Lab Code: ACE **Lb No.:** lb137584 **Lab Sample ID :** Q3374-05L **SDG No.:** Q3376
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Differ- ence	Q	M
Mercury	0.013 U	0.065 U			CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

PR132-S12-020047-20251016L

Lab Name: Alliance **Contract:** AECO02
Lab Code: ACE **Lb No.:** lb137619 **Lab Sample ID :** Q3376-05L **SDG No.:** Q3376
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
Aluminum	6330		6750		7		P
Antimony	0.080	J	1.25	U	100.0		P
Arsenic	7.86		9.08		15		P
Barium	52.4		54.1		3		P
Beryllium	0.74		0.74		1		P
Cadmium	1.03		1.01		2		P
Calcium	4870		5220		7		P
Chromium	49.4		52.2		6		P
Cobalt	8.16		8.63		6		P
Copper	103		107		4		P
Iron	17500		18600		6		P
Lead	235		229		3		P
Magnesium	7170		7570		6		P
Manganese	199		209		5		P
Nickel	56.0		60.2		7		P
Potassium	1500		1630		9		P
Selenium	0.59	J	3.12	U	100.0		P
Silver	1.80		1.84		3		P
Sodium	4580		4760		4		P
Thallium	0.22		0.23	J	5		P
Vanadium	20.6		21.5		4		P
Zinc	259		280		8		P



METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: AECOM

SDG No.: Q3376

Contract: AECO02

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170158							
PB170158BL	PB170158BL	MB	SOLID	10/20/2025	1.00	100.0	100.00
PB170158BS	PB170158BS	LCS	SOLID	10/20/2025	1.00	100.0	100.00
Q3376-01	PR132-S05-057082-20251016	SAM	SOLID	10/20/2025	1.20	100.0	53.50
Q3376-02	PR132-DP01-20251016	SAM	SOLID	10/20/2025	1.12	100.0	53.60
Q3376-03	PR132-COMP2-20251016	SAM	SOLID	10/20/2025	1.16	100.0	52.70
Q3376-04	PR132-S12-047072-20251016	SAM	SOLID	10/20/2025	1.18	100.0	51.30
Q3376-05	PR132-S12-020047-20251016	SAM	SOLID	10/20/2025	1.20	100.0	66.80
Q3376-05DUP	PR132-S12-020047-20251016DUP	DUP	SOLID	10/20/2025	1.14	100.0	66.80
Q3376-05MS	PR132-S12-020047-20251016MS	MS	SOLID	10/20/2025	1.18	100.0	66.80
Q3376-05MSD	PR132-S12-020047-20251016MSD	MSD	SOLID	10/20/2025	1.16	100.0	66.80

Metals
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SAMPLE PREPARATION SUMMARY

Client: AECOM

SDG No.: Q3376

Contract: AECO02

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170170							
PB170170BL	PB170170BL	MB	SOLID	10/20/2025	0.50	35.0	100.00
PB170170BS	PB170170BS	LCS	SOLID	10/20/2025	0.50	35.0	100.00
Q3374-05DUP	TP-5-WCDUP	DUP	SOLID	10/20/2025	0.58	35.0	93.10
Q3374-05MS	TP-5-WCMS	MS	SOLID	10/20/2025	0.53	35.0	93.10
Q3374-05MSD	TP-5-WCMSD	MSD	SOLID	10/20/2025	0.53	35.0	93.10
Q3376-01	PR132-S05-057082-20251016	SAM	SOLID	10/20/2025	0.56	35.0	53.50
Q3376-02	PR132-DP01-20251016	SAM	SOLID	10/20/2025	0.13	35.0	53.60
Q3376-03	PR132-COMP2-20251016	SAM	SOLID	10/20/2025	0.57	35.0	52.70
Q3376-04	PR132-S12-047072-20251016	SAM	SOLID	10/20/2025	0.60	35.0	51.30
Q3376-05	PR132-S12-020047-20251016	SAM	SOLID	10/20/2025	0.60	35.0	66.80

metals
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ANALYSIS RUN LOG

Client: AECOM

Contract: AECO02

Lab code: ACE

Sdg no.: Q3376

Instrument id number: _____

Method: _____

Run number: LB137584

Start date: 10/20/2025

End date: 10/21/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1358	HG
S0.2	S0.2	1	1401	HG
S2.5	S2.5	1	1403	HG
S5	S5	1	1405	HG
S7.5	S7.5	1	1408	HG
S10	S10	1	1417	HG
ICV79	ICV79	1	1421	HG
ICB79	ICB79	1	1423	HG
CCV57	CCV57	1	1426	HG
CCB57	CCB57	1	1428	HG
CRA	CRA	1	1435	HG
PB170170BL	PB170170BL	1	1442	HG
PB170170BS	PB170170BS	1	1448	HG
Q3374-05DUP	TP-5-WCDUP	1	1455	HG
Q3374-05MS	TP-5-WCMS	1	1500	HG
Q3374-05MSD	TP-5-WCMSD	1	1502	HG
CCV58	CCV58	1	1505	HG
CCB58	CCB58	1	1508	HG
CCV59	CCV59	1	1540	HG
CCB59	CCB59	1	1543	HG
CCV60	CCV60	1	1617	HG
CCB60	CCB60	1	1620	HG
Q3374-05L	TP-5-WCL	5	1634	HG
CCV61	CCV61	1	0857	HG
CCB61	CCB61	1	0900	HG

metals
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ANALYSIS RUN LOG

Client: AECOM

Contract: AECO02

Lab code: ACE

Sdg no.: Q3376

Instrument id number: _____

Method: _____

Run number: LB137610

Start date: 10/22/2025

End date: 10/22/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1113	HG
S0.2	S0.2	1	1116	HG
S2.5	S2.5	1	1118	HG
S5	S5	1	1120	HG
S7.5	S7.5	1	1123	HG
S10	S10	1	1125	HG
ICV83	ICV83	1	1129	HG
ICB83	ICB83	1	1131	HG
CCV71	CCV71	1	1134	HG
CCB71	CCB71	1	1136	HG
CRA	CRA	1	1139	HG
CCV72	CCV72	1	1214	HG
CCB72	CCB72	1	1216	HG
CCV73	CCV73	1	1248	HG
CCB73	CCB73	1	1254	HG
CCV74	CCV74	1	1323	HG
CCB74	CCB74	1	1326	HG
CCV75	CCV75	1	1411	HG
CCB75	CCB75	1	1413	HG
Q3376-01	PR132-S05-057082-20251016	10	1431	HG
Q3376-02	PR132-DP01-20251016	10	1433	HG
Q3376-03	PR132-COMP2-20251016	10	1436	HG
Q3376-04	PR132-S12-047072-20251016	10	1439	HG
CCV76	CCV76	1	1442	HG
CCB76	CCB76	1	1444	HG
Q3376-05	PR132-S12-020047-20251016	10	1447	HG
CCV77	CCV77	1	1459	HG
CCB77	CCB77	1	1502	HG

metals
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ANALYSIS RUN LOG

Client: AECOM

Contract: AECO02

Lab code: ACE

Sdg no.: Q3376

Instrument id number: _____

Method: _____

Run number: LB137619

Start date: 10/22/2025

End date: 10/22/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1154	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	1157	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	1204	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	1207	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	1210	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1213	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1216	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1219	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1238	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	1312	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	1316	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	1320	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	1323	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	1327	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	1330	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	1333	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	1411	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	1418	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	1454	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	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170158BL	PB170158BL	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170158BS	PB170158BS	1	1524	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	1600	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-01	PR132-S05-057082-20251016	1	1606	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-02	PR132-DP01-20251016	1	1609	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-03	PR132-COMP2-20251016	1	1613	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-04	PR132-S12-047072-20251016	1	1616	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-05	PR132-S12-020047-20251016	1	1619	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-05L	PR132-S12-020047-20251016L	5	1625	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-05MSD	PR132-S12-020047-20251016M	1	1631	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-05DUP	PR132-S12-020047-20251016D	1	1640	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-05MS	PR132-S12-020047-20251016M	1	1643	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	1646	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	1655	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-05A	PR132-S12-020047-20251016A	1	1700	Ag,Pb
CCV06	CCV06	1	1759	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	1810	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	1841	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	1849	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	1944	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

Client: AECOM

Contract: AECO02

Lab code: ACE

Sdg no.: Q3376

Instrument id number: _____

Method: _____

Run number: LB137619

Start date: 10/22/2025

End date: 10/22/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB08	CCB08	1	1952	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3376-01	PR132-S05-057082-20251016	5	2000	Cr
Q3376-02	PR132-DP01-20251016	5	2003	Cr
Q3376-03	PR132-COMP2-20251016	5	2006	Cr
Q3376-04	PR132-S12-047072-20251016	5	2009	Cr
CCV09	CCV09	1	2028	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	2031	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	2103	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	2106	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn