

Hit Summary Sheet SW-846

SDG No.: P5299 **Order ID:** P5299
Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SB-01								
P5299-01	SB-01	SOIL	Aluminum	2440		2.90	6.01	mg/Kg
P5299-01	SB-01	SOIL	Arsenic	5.96		0.35	1.20	mg/Kg
P5299-01	SB-01	SOIL	Barium	22.3		0.77	6.01	mg/Kg
P5299-01	SB-01	SOIL	Beryllium	0.25	J	0.014	0.36	mg/Kg
P5299-01	SB-01	SOIL	Calcium	1990		3.36	120	mg/Kg
P5299-01	SB-01	SOIL	Chromium	7.98		0.065	0.60	mg/Kg
P5299-01	SB-01	SOIL	Cobalt	2.15		0.070	1.80	mg/Kg
P5299-01	SB-01	SOIL	Copper	13.6		0.56	1.20	mg/Kg
P5299-01	SB-01	SOIL	Iron	12000		3.23	6.01	mg/Kg
P5299-01	SB-01	SOIL	Lead	11.0		0.18	0.72	mg/Kg
P5299-01	SB-01	SOIL	Magnesium	947		4.12	120	mg/Kg
P5299-01	SB-01	SOIL	Manganese	41.4		0.085	1.20	mg/Kg
P5299-01	SB-01	SOIL	Mercury	0.13		0.0070	0.015	mg/Kg
P5299-01	SB-01	SOIL	Nickel	4.25		0.11	2.40	mg/Kg
P5299-01	SB-01	SOIL	Potassium	937		34.5	120	mg/Kg
P5299-01	SB-01	SOIL	Sodium	122		43.4	120	mg/Kg
P5299-01	SB-01	SOIL	Vanadium	14.6		0.32	2.40	mg/Kg
P5299-01	SB-01	SOIL	Zinc	11.3		0.13	2.40	mg/Kg
Client ID : SB-02								
P5299-02	SB-02	SOIL	Aluminum	8690		2.85	5.91	mg/Kg
P5299-02	SB-02	SOIL	Arsenic	2.21		0.34	1.18	mg/Kg
P5299-02	SB-02	SOIL	Barium	31.8		0.76	5.91	mg/Kg
P5299-02	SB-02	SOIL	Beryllium	0.54		0.014	0.36	mg/Kg
P5299-02	SB-02	SOIL	Calcium	462		3.31	118	mg/Kg
P5299-02	SB-02	SOIL	Chromium	13.2		0.064	0.59	mg/Kg
P5299-02	SB-02	SOIL	Cobalt	6.16		0.069	1.77	mg/Kg
P5299-02	SB-02	SOIL	Copper	36.0		0.56	1.18	mg/Kg
P5299-02	SB-02	SOIL	Iron	14500		3.18	5.91	mg/Kg
P5299-02	SB-02	SOIL	Lead	9.33		0.18	0.71	mg/Kg
P5299-02	SB-02	SOIL	Magnesium	2130		4.06	118	mg/Kg
P5299-02	SB-02	SOIL	Manganese	124		0.084	1.18	mg/Kg
P5299-02	SB-02	SOIL	Mercury	0.11		0.0080	0.019	mg/Kg
P5299-02	SB-02	SOIL	Nickel	11.5		0.11	2.37	mg/Kg
P5299-02	SB-02	SOIL	Potassium	702		33.9	118	mg/Kg
P5299-02	SB-02	SOIL	Sodium	250		42.7	118	mg/Kg
P5299-02	SB-02	SOIL	Vanadium	17.5		0.32	2.37	mg/Kg
P5299-02	SB-02	SOIL	Zinc	22.9		0.13	2.37	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P5299

Order ID: P5299

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SB-01								
P5299-03	SB-01	SOIL	Aluminum	6680		3.02	6.27	mg/Kg
P5299-03	SB-01	SOIL	Arsenic	1.34		0.36	1.25	mg/Kg
P5299-03	SB-01	SOIL	Barium	45.9		0.80	6.27	mg/Kg
P5299-03	SB-01	SOIL	Beryllium	0.51		0.015	0.38	mg/Kg
P5299-03	SB-01	SOIL	Calcium	1500		3.51	125	mg/Kg
P5299-03	SB-01	SOIL	Chromium	26.1		0.068	0.63	mg/Kg
P5299-03	SB-01	SOIL	Cobalt	7.49		0.073	1.88	mg/Kg
P5299-03	SB-01	SOIL	Copper	29.5		0.59	1.25	mg/Kg
P5299-03	SB-01	SOIL	Iron	14700		3.37	6.27	mg/Kg
P5299-03	SB-01	SOIL	Lead	13.5		0.19	0.75	mg/Kg
P5299-03	SB-01	SOIL	Magnesium	2490		4.30	125	mg/Kg
P5299-03	SB-01	SOIL	Manganese	182		0.089	1.25	mg/Kg
P5299-03	SB-01	SOIL	Mercury	0.099		0.0080	0.017	mg/Kg
P5299-03	SB-01	SOIL	Nickel	19.8		0.11	2.51	mg/Kg
P5299-03	SB-01	SOIL	Potassium	1940		36.0	125	mg/Kg
P5299-03	SB-01	SOIL	Sodium	210		45.2	125	mg/Kg
P5299-03	SB-01	SOIL	Vanadium	16.6		0.34	2.51	mg/Kg
P5299-03	SB-01	SOIL	Zinc	30.2		0.14	2.51	mg/Kg
Client ID : SB-02								
P5299-04	SB-02	SOIL	Aluminum	6080		2.82	5.85	mg/Kg
P5299-04	SB-02	SOIL	Arsenic	1.80		0.34	1.17	mg/Kg
P5299-04	SB-02	SOIL	Barium	35.4		0.75	5.85	mg/Kg
P5299-04	SB-02	SOIL	Beryllium	0.52		0.014	0.35	mg/Kg
P5299-04	SB-02	SOIL	Cadmium	0.058	J	0.019	0.35	mg/Kg
P5299-04	SB-02	SOIL	Calcium	995		3.27	117	mg/Kg
P5299-04	SB-02	SOIL	Chromium	18.6		0.063	0.59	mg/Kg
P5299-04	SB-02	SOIL	Cobalt	5.94		0.068	1.75	mg/Kg
P5299-04	SB-02	SOIL	Copper	14.6		0.55	1.17	mg/Kg
P5299-04	SB-02	SOIL	Iron	13100		3.14	5.85	mg/Kg
P5299-04	SB-02	SOIL	Lead	11.4		0.18	0.70	mg/Kg
P5299-04	SB-02	SOIL	Magnesium	1980		4.01	117	mg/Kg
P5299-04	SB-02	SOIL	Manganese	136		0.083	1.17	mg/Kg
P5299-04	SB-02	SOIL	Mercury	0.022		0.0080	0.017	mg/Kg
P5299-04	SB-02	SOIL	Nickel	12.8		0.11	2.34	mg/Kg
P5299-04	SB-02	SOIL	Potassium	801		33.6	117	mg/Kg
P5299-04	SB-02	SOIL	Sodium	120		42.2	117	mg/Kg
P5299-04	SB-02	SOIL	Vanadium	15.9		0.32	2.34	mg/Kg
P5299-04	SB-02	SOIL	Zinc	27.2		0.13	2.34	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/14/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2440		1	2.90	6.01	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-36-0	Antimony	0.18	UN	1	0.18	3.00	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-38-2	Arsenic	5.96		1	0.35	1.20	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-39-3	Barium	22.3	N	1	0.77	6.01	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-41-7	Beryllium	0.25	JN	1	0.014	0.36	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-43-9	Cadmium	0.019	U	1	0.019	0.36	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-70-2	Calcium	1990		1	3.36	120	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-47-3	Chromium	7.98	N	1	0.065	0.60	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-48-4	Cobalt	2.15		1	0.070	1.80	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-50-8	Copper	13.6	N	1	0.56	1.20	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7439-89-6	Iron	12000		1	3.23	6.01	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7439-92-1	Lead	11.0		1	0.18	0.72	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7439-95-4	Magnesium	947		1	4.12	120	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7439-96-5	Manganese	41.4		1	0.085	1.20	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7439-97-6	Mercury	0.13	N	1	0.0070	0.015	mg/Kg	12/18/24 08:35	12/18/24 13:57	SW7471B	
7440-02-0	Nickel	4.25		1	0.11	2.40	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-09-7	Potassium	937	N	1	34.5	120	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7782-49-2	Selenium	0.40	UN	1	0.40	1.20	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-22-4	Silver	0.062	U	1	0.062	0.60	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-23-5	Sodium	122	N	1	43.4	120	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-28-0	Thallium	0.53	U	1	0.53	2.40	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-62-2	Vanadium	14.6	N	1	0.32	2.40	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050
7440-66-6	Zinc	11.3	N	1	0.13	2.40	mg/Kg	12/18/24 12:20	12/20/24 18:38	SW6010	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

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:	Portal Partners Tri-Venture	Date Collected:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	75.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8690		1	2.85	5.91	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-36-0	Antimony	0.18	UN	1	0.18	2.96	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-38-2	Arsenic	2.21		1	0.34	1.18	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-39-3	Barium	31.8	N	1	0.76	5.91	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-41-7	Beryllium	0.54	N	1	0.014	0.36	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-43-9	Cadmium	0.019	U	1	0.019	0.36	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-70-2	Calcium	462		1	3.31	118	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-47-3	Chromium	13.2	N	1	0.064	0.59	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-48-4	Cobalt	6.16		1	0.069	1.77	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-50-8	Copper	36.0	N	1	0.56	1.18	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7439-89-6	Iron	14500		1	3.18	5.91	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7439-92-1	Lead	9.33		1	0.18	0.71	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7439-95-4	Magnesium	2130		1	4.06	118	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7439-96-5	Manganese	124		1	0.084	1.18	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7439-97-6	Mercury	0.11	N	1	0.0080	0.019	mg/Kg	12/18/24 08:35	12/18/24 13:59	SW7471B	
7440-02-0	Nickel	11.5		1	0.11	2.37	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-09-7	Potassium	702	N	1	33.9	118	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7782-49-2	Selenium	0.39	UN	1	0.39	1.18	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-22-4	Silver	0.061	U	1	0.061	0.59	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-23-5	Sodium	250	N	1	42.7	118	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-28-0	Thallium	0.52	U	1	0.52	2.37	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-62-2	Vanadium	17.5	N	1	0.32	2.37	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050
7440-66-6	Zinc	22.9	N	1	0.13	2.37	mg/Kg	12/18/24 12:20	12/20/24 20:06	SW6010	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

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:	Portal Partners Tri-Venture	Date Collected:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	68.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6680		1	3.02	6.27	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-36-0	Antimony	0.19	UN	1	0.19	3.13	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-38-2	Arsenic	1.34		1	0.36	1.25	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-39-3	Barium	45.9	N	1	0.80	6.27	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-41-7	Beryllium	0.51	N	1	0.015	0.38	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-43-9	Cadmium	0.020	U	1	0.020	0.38	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-70-2	Calcium	1500		1	3.51	125	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-47-3	Chromium	26.1	N	1	0.068	0.63	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-48-4	Cobalt	7.49		1	0.073	1.88	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-50-8	Copper	29.5	N	1	0.59	1.25	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7439-89-6	Iron	14700		1	3.37	6.27	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7439-92-1	Lead	13.5		1	0.19	0.75	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7439-95-4	Magnesium	2490		1	4.30	125	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7439-96-5	Manganese	182		1	0.089	1.25	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7439-97-6	Mercury	0.099	N	1	0.0080	0.017	mg/Kg	12/18/24 08:35	12/18/24 14:02	SW7471B	
7440-02-0	Nickel	19.8		1	0.11	2.51	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-09-7	Potassium	1940	N	1	36.0	125	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7782-49-2	Selenium	0.41	UN	1	0.41	1.25	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-22-4	Silver	0.065	U	1	0.065	0.63	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-23-5	Sodium	210	N	1	45.2	125	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-28-0	Thallium	0.55	U	1	0.55	2.51	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-62-2	Vanadium	16.6	N	1	0.34	2.51	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050
7440-66-6	Zinc	30.2	N	1	0.14	2.51	mg/Kg	12/18/24 12:20	12/20/24 20:10	SW6010	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

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LOQ = Limit of Quantitation

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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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	79.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6080		1	2.82	5.85	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-36-0	Antimony	0.18	UN	1	0.18	2.92	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-38-2	Arsenic	1.80		1	0.34	1.17	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-39-3	Barium	35.4	N	1	0.75	5.85	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-41-7	Beryllium	0.52	N	1	0.014	0.35	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-43-9	Cadmium	0.058	J	1	0.019	0.35	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-70-2	Calcium	995		1	3.27	117	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-47-3	Chromium	18.6	N	1	0.063	0.59	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-48-4	Cobalt	5.94		1	0.068	1.75	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-50-8	Copper	14.6	N	1	0.55	1.17	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7439-89-6	Iron	13100		1	3.14	5.85	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7439-92-1	Lead	11.4		1	0.18	0.70	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7439-95-4	Magnesium	1980		1	4.01	117	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7439-96-5	Manganese	136		1	0.083	1.17	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7439-97-6	Mercury	0.022	N	1	0.0080	0.017	mg/Kg	12/18/24 08:35	12/18/24 14:04	SW7471B	
7440-02-0	Nickel	12.8		1	0.11	2.34	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-09-7	Potassium	801	N	1	33.6	117	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7782-49-2	Selenium	0.39	UN	1	0.39	1.17	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-22-4	Silver	0.061	U	1	0.061	0.59	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-23-5	Sodium	120	N	1	42.2	117	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-28-0	Thallium	0.51	U	1	0.51	2.34	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-62-2	Vanadium	15.9	N	1	0.32	2.34	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050
7440-66-6	Zinc	27.2	N	1	0.13	2.34	mg/Kg	12/18/24 12:20	12/20/24 20:14	SW6010	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

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



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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: P5299

Contract: PORT06

Lab Code: CHEM

Case No.: P5299

SAS No.: P5299

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB24	Mercury	0.20	+/-0.20	U	0.20	CV	12/18/2024	13:39	LB133991

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: P5299

Contract: PORT06

Lab Code: CHEM

Case No.: P5299

SAS No.: P5299

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB42	Mercury	0.20	+/-0.20	U	0.20	CV	12/18/2024	13:43	LB133991
CCB43	Mercury	0.20	+/-0.20	U	0.20	CV	12/18/2024	14:11	LB133991
CCB44	Mercury	0.20	+/-0.20	U	0.20	CV	12/18/2024	14:48	LB133991
CCB45	Mercury	0.20	+/-0.20	U	0.20	CV	12/18/2024	15:09	LB133991

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P5299							
Contract: PORT06	Lab Code: CHEM	Case No.: P5299	SAS No.: P5299						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	12/20/2024	16:21	LB134054
	Antimony	50.0	+/-50.0	U	50.0	P	12/20/2024	16:21	LB134054
	Arsenic	20.0	+/-20.0	U	20.0	P	12/20/2024	16:21	LB134054
	Barium	100	+/-100	U	100	P	12/20/2024	16:21	LB134054
	Beryllium	6.00	+/-6.00	U	6.00	P	12/20/2024	16:21	LB134054
	Cadmium	6.00	+/-6.00	U	6.00	P	12/20/2024	16:21	LB134054
	Calcium	2000	+/-2000	U	2000	P	12/20/2024	16:21	LB134054
	Chromium	10.0	+/-10.0	U	10.0	P	12/20/2024	16:21	LB134054
	Cobalt	30.0	+/-30.0	U	30.0	P	12/20/2024	16:21	LB134054
	Copper	20.0	+/-20.0	U	20.0	P	12/20/2024	16:21	LB134054
	Iron	100	+/-100	U	100	P	12/20/2024	16:21	LB134054
	Lead	12.0	+/-12.0	U	12.0	P	12/20/2024	16:21	LB134054
	Magnesium	2000	+/-2000	U	2000	P	12/20/2024	16:21	LB134054
	Manganese	20.0	+/-20.0	U	20.0	P	12/20/2024	16:21	LB134054
	Nickel	40.0	+/-40.0	U	40.0	P	12/20/2024	16:21	LB134054
	Potassium	2000	+/-2000	U	2000	P	12/20/2024	16:21	LB134054
	Selenium	20.0	+/-20.0	U	20.0	P	12/20/2024	16:21	LB134054
	Silver	10.0	+/-10.0	U	10.0	P	12/20/2024	16:21	LB134054
	Sodium	2000	+/-2000	U	2000	P	12/20/2024	16:21	LB134054
	Thallium	40.0	+/-40.0	U	40.0	P	12/20/2024	16:21	LB134054
	Vanadium	40.0	+/-40.0	U	40.0	P	12/20/2024	16:21	LB134054
	Zinc	40.0	+/-40.0	U	40.0	P	12/20/2024	16:21	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P5299							
Contract: PORT06	Lab Code: CHEM	Case No.: P5299	SAS No.: P5299						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	12/20/2024	16:51	LB134054
	Antimony	50.0	+/-50.0	U	50.0	P	12/20/2024	16:51	LB134054
	Arsenic	20.0	+/-20.0	U	20.0	P	12/20/2024	16:51	LB134054
	Barium	14.0	+/-100	J	100	P	12/20/2024	16:51	LB134054
	Beryllium	6.00	+/-6.00	U	6.00	P	12/20/2024	16:51	LB134054
	Cadmium	6.00	+/-6.00	U	6.00	P	12/20/2024	16:51	LB134054
	Calcium	2000	+/-2000	U	2000	P	12/20/2024	16:51	LB134054
	Chromium	10.0	+/-10.0	U	10.0	P	12/20/2024	16:51	LB134054
	Cobalt	30.0	+/-30.0	U	30.0	P	12/20/2024	16:51	LB134054
	Copper	20.0	+/-20.0	U	20.0	P	12/20/2024	16:51	LB134054
	Iron	100	+/-100	U	100	P	12/20/2024	16:51	LB134054
	Lead	12.0	+/-12.0	U	12.0	P	12/20/2024	16:51	LB134054
	Magnesium	2000	+/-2000	U	2000	P	12/20/2024	16:51	LB134054
	Manganese	5.60	+/-20.0	J	20.0	P	12/20/2024	16:51	LB134054
	Nickel	40.0	+/-40.0	U	40.0	P	12/20/2024	16:51	LB134054
	Potassium	2000	+/-2000	U	2000	P	12/20/2024	16:51	LB134054
	Selenium	20.0	+/-20.0	U	20.0	P	12/20/2024	16:51	LB134054
	Silver	10.0	+/-10.0	U	10.0	P	12/20/2024	16:51	LB134054
	Sodium	2000	+/-2000	U	2000	P	12/20/2024	16:51	LB134054
	Thallium	40.0	+/-40.0	U	40.0	P	12/20/2024	16:51	LB134054
	Vanadium	40.0	+/-40.0	U	40.0	P	12/20/2024	16:51	LB134054
	Zinc	40.0	+/-40.0	U	40.0	P	12/20/2024	16:51	LB134054
CCB02	Aluminum	100	+/-100	U	100	P	12/20/2024	17:34	LB134054
	Antimony	50.0	+/-50.0	U	50.0	P	12/20/2024	17:34	LB134054
	Arsenic	20.0	+/-20.0	U	20.0	P	12/20/2024	17:34	LB134054
	Barium	100	+/-100	U	100	P	12/20/2024	17:34	LB134054
	Beryllium	6.00	+/-6.00	U	6.00	P	12/20/2024	17:34	LB134054
	Cadmium	6.00	+/-6.00	U	6.00	P	12/20/2024	17:34	LB134054
	Calcium	2000	+/-2000	U	2000	P	12/20/2024	17:34	LB134054
	Chromium	10.0	+/-10.0	U	10.0	P	12/20/2024	17:34	LB134054
	Cobalt	30.0	+/-30.0	U	30.0	P	12/20/2024	17:34	LB134054
	Copper	20.0	+/-20.0	U	20.0	P	12/20/2024	17:34	LB134054
	Iron	100	+/-100	U	100	P	12/20/2024	17:34	LB134054
	Lead	12.0	+/-12.0	U	12.0	P	12/20/2024	17:34	LB134054
	Magnesium	2000	+/-2000	U	2000	P	12/20/2024	17:34	LB134054
	Manganese	20.0	+/-20.0	U	20.0	P	12/20/2024	17:34	LB134054
	Nickel	40.0	+/-40.0	U	40.0	P	12/20/2024	17:34	LB134054
	Potassium	2000	+/-2000	U	2000	P	12/20/2024	17:34	LB134054
	Selenium	20.0	+/-20.0	U	20.0	P	12/20/2024	17:34	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P5299							
Contract: PORT06	Lab Code: CHEM	Case No.: P5299	SAS No.: P5299						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	12/20/2024	17:34	LB134054
	Sodium	2000	+/-2000	U	2000	P	12/20/2024	17:34	LB134054
	Thallium	40.0	+/-40.0	U	40.0	P	12/20/2024	17:34	LB134054
	Vanadium	40.0	+/-40.0	U	40.0	P	12/20/2024	17:34	LB134054
	Zinc	40.0	+/-40.0	U	40.0	P	12/20/2024	17:34	LB134054
CCB03	Aluminum	100	+/-100	U	100	P	12/20/2024	18:16	LB134054
	Antimony	50.0	+/-50.0	U	50.0	P	12/20/2024	18:16	LB134054
	Arsenic	20.0	+/-20.0	U	20.0	P	12/20/2024	18:16	LB134054
	Barium	100	+/-100	U	100	P	12/20/2024	18:16	LB134054
	Beryllium	6.00	+/-6.00	U	6.00	P	12/20/2024	18:16	LB134054
	Cadmium	6.00	+/-6.00	U	6.00	P	12/20/2024	18:16	LB134054
	Calcium	2000	+/-2000	U	2000	P	12/20/2024	18:16	LB134054
	Chromium	10.0	+/-10.0	U	10.0	P	12/20/2024	18:16	LB134054
	Cobalt	30.0	+/-30.0	U	30.0	P	12/20/2024	18:16	LB134054
	Copper	20.0	+/-20.0	U	20.0	P	12/20/2024	18:16	LB134054
	Iron	100	+/-100	U	100	P	12/20/2024	18:16	LB134054
	Lead	12.0	+/-12.0	U	12.0	P	12/20/2024	18:16	LB134054
	Magnesium	2000	+/-2000	U	2000	P	12/20/2024	18:16	LB134054
	Manganese	20.0	+/-20.0	U	20.0	P	12/20/2024	18:16	LB134054
	Nickel	40.0	+/-40.0	U	40.0	P	12/20/2024	18:16	LB134054
	Potassium	2000	+/-2000	U	2000	P	12/20/2024	18:16	LB134054
	Selenium	20.0	+/-20.0	U	20.0	P	12/20/2024	18:16	LB134054
	Silver	10.0	+/-10.0	U	10.0	P	12/20/2024	18:16	LB134054
	Sodium	2000	+/-2000	U	2000	P	12/20/2024	18:16	LB134054
	Thallium	40.0	+/-40.0	U	40.0	P	12/20/2024	18:16	LB134054
	Vanadium	40.0	+/-40.0	U	40.0	P	12/20/2024	18:16	LB134054
	Zinc	40.0	+/-40.0	U	40.0	P	12/20/2024	18:16	LB134054
CCB04	Aluminum	100	+/-100	U	100	P	12/20/2024	19:11	LB134054
	Antimony	50.0	+/-50.0	U	50.0	P	12/20/2024	19:11	LB134054
	Arsenic	20.0	+/-20.0	U	20.0	P	12/20/2024	19:11	LB134054
	Barium	100	+/-100	U	100	P	12/20/2024	19:11	LB134054
	Beryllium	6.00	+/-6.00	U	6.00	P	12/20/2024	19:11	LB134054
	Cadmium	6.00	+/-6.00	U	6.00	P	12/20/2024	19:11	LB134054
	Calcium	2000	+/-2000	U	2000	P	12/20/2024	19:11	LB134054
	Chromium	10.0	+/-10.0	U	10.0	P	12/20/2024	19:11	LB134054
	Cobalt	30.0	+/-30.0	U	30.0	P	12/20/2024	19:11	LB134054
	Copper	20.0	+/-20.0	U	20.0	P	12/20/2024	19:11	LB134054
	Iron	100	+/-100	U	100	P	12/20/2024	19:11	LB134054
	Lead	12.0	+/-12.0	U	12.0	P	12/20/2024	19:11	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P5299							
Contract: PORT06	Lab Code: CHEM	Case No.: P5299	SAS No.: P5299						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	12/20/2024	19:11	LB134054
	Manganese	20.0	+/-20.0	U	20.0	P	12/20/2024	19:11	LB134054
	Nickel	40.0	+/-40.0	U	40.0	P	12/20/2024	19:11	LB134054
	Potassium	2000	+/-2000	U	2000	P	12/20/2024	19:11	LB134054
	Selenium	20.0	+/-20.0	U	20.0	P	12/20/2024	19:11	LB134054
	Silver	10.0	+/-10.0	U	10.0	P	12/20/2024	19:11	LB134054
	Sodium	2000	+/-2000	U	2000	P	12/20/2024	19:11	LB134054
	Thallium	8.20	+/-40.0	J	40.0	P	12/20/2024	19:11	LB134054
	Vanadium	40.0	+/-40.0	U	40.0	P	12/20/2024	19:11	LB134054
	Zinc	40.0	+/-40.0	U	40.0	P	12/20/2024	19:11	LB134054
CCB05	Aluminum	100	+/-100	U	100	P	12/20/2024	20:01	LB134054
	Antimony	50.0	+/-50.0	U	50.0	P	12/20/2024	20:01	LB134054
	Arsenic	20.0	+/-20.0	U	20.0	P	12/20/2024	20:01	LB134054
	Barium	100	+/-100	U	100	P	12/20/2024	20:01	LB134054
	Beryllium	6.00	+/-6.00	U	6.00	P	12/20/2024	20:01	LB134054
	Cadmium	6.00	+/-6.00	U	6.00	P	12/20/2024	20:01	LB134054
	Calcium	2000	+/-2000	U	2000	P	12/20/2024	20:01	LB134054
	Chromium	10.0	+/-10.0	U	10.0	P	12/20/2024	20:01	LB134054
	Cobalt	30.0	+/-30.0	U	30.0	P	12/20/2024	20:01	LB134054
	Copper	20.0	+/-20.0	U	20.0	P	12/20/2024	20:01	LB134054
	Iron	100	+/-100	U	100	P	12/20/2024	20:01	LB134054
	Lead	12.0	+/-12.0	U	12.0	P	12/20/2024	20:01	LB134054
	Magnesium	2000	+/-2000	U	2000	P	12/20/2024	20:01	LB134054
	Manganese	20.0	+/-20.0	U	20.0	P	12/20/2024	20:01	LB134054
	Nickel	40.0	+/-40.0	U	40.0	P	12/20/2024	20:01	LB134054
	Potassium	2000	+/-2000	U	2000	P	12/20/2024	20:01	LB134054
	Selenium	20.0	+/-20.0	U	20.0	P	12/20/2024	20:01	LB134054
	Silver	10.0	+/-10.0	U	10.0	P	12/20/2024	20:01	LB134054
	Sodium	2000	+/-2000	U	2000	P	12/20/2024	20:01	LB134054
	Thallium	40.0	+/-40.0	U	40.0	P	12/20/2024	20:01	LB134054
	Vanadium	40.0	+/-40.0	U	40.0	P	12/20/2024	20:01	LB134054
	Zinc	40.0	+/-40.0	U	40.0	P	12/20/2024	20:01	LB134054
CCB06	Aluminum	100	+/-100	U	100	P	12/20/2024	20:51	LB134054
	Antimony	50.0	+/-50.0	U	50.0	P	12/20/2024	20:51	LB134054
	Arsenic	20.0	+/-20.0	U	20.0	P	12/20/2024	20:51	LB134054
	Barium	100	+/-100	U	100	P	12/20/2024	20:51	LB134054
	Beryllium	6.00	+/-6.00	U	6.00	P	12/20/2024	20:51	LB134054
	Cadmium	6.00	+/-6.00	U	6.00	P	12/20/2024	20:51	LB134054
	Calcium	2000	+/-2000	U	2000	P	12/20/2024	20:51	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P5299							
Contract: PORT06	Lab Code: CHEM	Case No.: P5299	SAS No.: P5299						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	12/20/2024	20:51	LB134054
	Cobalt	30.0	+/-30.0	U	30.0	P	12/20/2024	20:51	LB134054
	Copper	20.0	+/-20.0	U	20.0	P	12/20/2024	20:51	LB134054
	Iron	100	+/-100	U	100	P	12/20/2024	20:51	LB134054
	Lead	12.0	+/-12.0	U	12.0	P	12/20/2024	20:51	LB134054
	Magnesium	2000	+/-2000	U	2000	P	12/20/2024	20:51	LB134054
	Manganese	20.0	+/-20.0	U	20.0	P	12/20/2024	20:51	LB134054
	Nickel	40.0	+/-40.0	U	40.0	P	12/20/2024	20:51	LB134054
	Potassium	2000	+/-2000	U	2000	P	12/20/2024	20:51	LB134054
	Selenium	20.0	+/-20.0	U	20.0	P	12/20/2024	20:51	LB134054
	Silver	10.0	+/-10.0	U	10.0	P	12/20/2024	20:51	LB134054
	Sodium	2000	+/-2000	U	2000	P	12/20/2024	20:51	LB134054
	Thallium	40.0	+/-40.0	U	40.0	P	12/20/2024	20:51	LB134054
	Vanadium	40.0	+/-40.0	U	40.0	P	12/20/2024	20:51	LB134054
	Zinc	40.0	+/-40.0	U	40.0	P	12/20/2024	20:51	LB134054
CCB07	Aluminum	100	+/-100	U	100	P	12/20/2024	22:04	LB134054
	Antimony	50.0	+/-50.0	U	50.0	P	12/20/2024	22:04	LB134054
	Arsenic	20.0	+/-20.0	U	20.0	P	12/20/2024	22:04	LB134054
	Barium	100	+/-100	U	100	P	12/20/2024	22:04	LB134054
	Beryllium	6.00	+/-6.00	U	6.00	P	12/20/2024	22:04	LB134054
	Cadmium	6.00	+/-6.00	U	6.00	P	12/20/2024	22:04	LB134054
	Calcium	2000	+/-2000	U	2000	P	12/20/2024	22:04	LB134054
	Chromium	10.0	+/-10.0	U	10.0	P	12/20/2024	22:04	LB134054
	Cobalt	30.0	+/-30.0	U	30.0	P	12/20/2024	22:04	LB134054
	Copper	20.0	+/-20.0	U	20.0	P	12/20/2024	22:04	LB134054
	Iron	100	+/-100	U	100	P	12/20/2024	22:04	LB134054
	Lead	12.0	+/-12.0	U	12.0	P	12/20/2024	22:04	LB134054
	Magnesium	2000	+/-2000	U	2000	P	12/20/2024	22:04	LB134054
	Manganese	20.0	+/-20.0	U	20.0	P	12/20/2024	22:04	LB134054
	Nickel	40.0	+/-40.0	U	40.0	P	12/20/2024	22:04	LB134054
	Potassium	2000	+/-2000	U	2000	P	12/20/2024	22:04	LB134054
	Selenium	20.0	+/-20.0	U	20.0	P	12/20/2024	22:04	LB134054
	Silver	10.0	+/-10.0	U	10.0	P	12/20/2024	22:04	LB134054
	Sodium	2000	+/-2000	U	2000	P	12/20/2024	22:04	LB134054
	Thallium	40.0	+/-40.0	U	40.0	P	12/20/2024	22:04	LB134054
	Vanadium	40.0	+/-40.0	U	40.0	P	12/20/2024	22:04	LB134054
	Zinc	40.0	+/-40.0	U	40.0	P	12/20/2024	22:04	LB134054
CCB08	Aluminum	100	+/-100	U	100	P	12/20/2024	23:12	LB134054
	Antimony	50.0	+/-50.0	U	50.0	P	12/20/2024	23:12	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P5299							
Contract: PORT06	Lab Code: CHEM	Case No.: P5299	SAS No.: P5299						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	12/20/2024	23:12	LB134054
	Barium	100	+/-100	U	100	P	12/20/2024	23:12	LB134054
	Beryllium	6.00	+/-6.00	U	6.00	P	12/20/2024	23:12	LB134054
	Cadmium	6.00	+/-6.00	U	6.00	P	12/20/2024	23:12	LB134054
	Calcium	2000	+/-2000	U	2000	P	12/20/2024	23:12	LB134054
	Chromium	10.0	+/-10.0	U	10.0	P	12/20/2024	23:12	LB134054
	Cobalt	30.0	+/-30.0	U	30.0	P	12/20/2024	23:12	LB134054
	Copper	20.0	+/-20.0	U	20.0	P	12/20/2024	23:12	LB134054
	Iron	100	+/-100	U	100	P	12/20/2024	23:12	LB134054
	Lead	12.0	+/-12.0	U	12.0	P	12/20/2024	23:12	LB134054
	Magnesium	2000	+/-2000	U	2000	P	12/20/2024	23:12	LB134054
	Manganese	20.0	+/-20.0	U	20.0	P	12/20/2024	23:12	LB134054
	Nickel	40.0	+/-40.0	U	40.0	P	12/20/2024	23:12	LB134054
	Potassium	2000	+/-2000	U	2000	P	12/20/2024	23:12	LB134054
	Selenium	20.0	+/-20.0	U	20.0	P	12/20/2024	23:12	LB134054
	Silver	10.0	+/-10.0	U	10.0	P	12/20/2024	23:12	LB134054
	Sodium	2000	+/-2000	U	2000	P	12/20/2024	23:12	LB134054
	Thallium	40.0	+/-40.0	U	40.0	P	12/20/2024	23:12	LB134054
	Vanadium	40.0	+/-40.0	U	40.0	P	12/20/2024	23:12	LB134054
	Zinc	40.0	+/-40.0	U	40.0	P	12/20/2024	23:12	LB134054
CCB09	Aluminum	100	+/-100	U	100	P	12/21/2024	00:05	LB134054
	Antimony	50.0	+/-50.0	U	50.0	P	12/21/2024	00:05	LB134054
	Arsenic	20.0	+/-20.0	U	20.0	P	12/21/2024	00:05	LB134054
	Barium	100	+/-100	U	100	P	12/21/2024	00:05	LB134054
	Beryllium	6.00	+/-6.00	U	6.00	P	12/21/2024	00:05	LB134054
	Cadmium	6.00	+/-6.00	U	6.00	P	12/21/2024	00:05	LB134054
	Calcium	2000	+/-2000	U	2000	P	12/21/2024	00:05	LB134054
	Chromium	10.0	+/-10.0	U	10.0	P	12/21/2024	00:05	LB134054
	Cobalt	30.0	+/-30.0	U	30.0	P	12/21/2024	00:05	LB134054
	Copper	20.0	+/-20.0	U	20.0	P	12/21/2024	00:05	LB134054
	Iron	100	+/-100	U	100	P	12/21/2024	00:05	LB134054
	Lead	12.0	+/-12.0	U	12.0	P	12/21/2024	00:05	LB134054
	Magnesium	2000	+/-2000	U	2000	P	12/21/2024	00:05	LB134054
	Manganese	20.0	+/-20.0	U	20.0	P	12/21/2024	00:05	LB134054
	Nickel	40.0	+/-40.0	U	40.0	P	12/21/2024	00:05	LB134054
	Potassium	2000	+/-2000	U	2000	P	12/21/2024	00:05	LB134054
	Selenium	20.0	+/-20.0	U	20.0	P	12/21/2024	00:05	LB134054
	Silver	10.0	+/-10.0	U	10.0	P	12/21/2024	00:05	LB134054
	Sodium	2000	+/-2000	U	2000	P	12/21/2024	00:05	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: P5299							
Contract:	PORT06	Lab Code:	CHEM	Case No.:	P5299	SAS No.:	P5299		
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	12/21/2024	00:05	LB134054
	Vanadium	40.0	+/-40.0	U	40.0	P	12/21/2024	00:05	LB134054
	Zinc	40.0	+/-40.0	U	40.0	P	12/21/2024	00:05	LB134054

Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: P5299

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165728BL		SOLID		Batch Number:	PB165728		Prep Date:	12/18/2024	
	Mercury	0.013	<0.013	U	0.013	CV	12/18/2024	13:52	LB133991

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: P5299

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165722BL	SOLID			Batch Number:	PB165722		Prep Date:	12/18/2024	
	Aluminum	4.41	<4.41	U	4.41	P	12/20/2024	20:38	LB134054
	Antimony	2.20	<2.20	U	2.20	P	12/20/2024	20:38	LB134054
	Arsenic	0.88	<0.88	U	0.88	P	12/20/2024	20:38	LB134054
	Barium	4.41	<4.41	U	4.41	P	12/20/2024	20:38	LB134054
	Beryllium	0.26	<0.26	U	0.26	P	12/20/2024	20:38	LB134054
	Cadmium	0.26	<0.26	U	0.26	P	12/20/2024	20:38	LB134054
	Calcium	88.1	<88.1	U	88.1	P	12/20/2024	20:38	LB134054
	Chromium	0.44	<0.44	U	0.44	P	12/20/2024	20:38	LB134054
	Cobalt	1.32	<1.32	U	1.32	P	12/20/2024	20:38	LB134054
	Copper	0.88	<0.88	U	0.88	P	12/20/2024	20:38	LB134054
	Iron	4.41	<4.41	U	4.41	P	12/20/2024	20:38	LB134054
	Lead	0.53	<0.53	U	0.53	P	12/20/2024	20:38	LB134054
	Magnesium	88.1	<88.1	U	88.1	P	12/20/2024	20:38	LB134054
	Manganese	0.88	<0.88	U	0.88	P	12/20/2024	20:38	LB134054
	Nickel	1.76	<1.76	U	1.76	P	12/20/2024	20:38	LB134054
	Potassium	88.1	<88.1	U	88.1	P	12/20/2024	20:38	LB134054
	Selenium	0.88	<0.88	U	0.88	P	12/20/2024	20:38	LB134054
	Silver	0.44	<0.44	U	0.44	P	12/20/2024	20:38	LB134054
	Sodium	88.1	<88.1	U	88.1	P	12/20/2024	20:38	LB134054
	Thallium	1.76	<1.76	U	1.76	P	12/20/2024	20:38	LB134054
	Vanadium	1.76	<1.76	U	1.76	P	12/20/2024	20:38	LB134054
	Zinc	1.76	<1.76	U	1.76	P	12/20/2024	20:38	LB134054



METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P5299
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P5299 **SAS No.:** P5299
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
CCV42	Mercury	4.53	5.0	91	90 - 110	CV	12/18/2024	13:41	LB133991
CCV43	Mercury	4.72	5.0	94	90 - 110	CV	12/18/2024	14:08	LB133991
CCV44	Mercury	4.51	5.0	90	90 - 110	CV	12/18/2024	14:45	LB133991
CCV45	Mercury	4.83	5.0	97	90 - 110	CV	12/18/2024	15:07	LB133991

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P5299

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P5299 **SAS No.:** P5299

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2440	2500	98	90 - 110	P	12/20/2024	16:07	LB134054
	Antimony	985	1000	98	90 - 110	P	12/20/2024	16:07	LB134054
	Arsenic	1020	1000	102	90 - 110	P	12/20/2024	16:07	LB134054
	Barium	471	520	91	90 - 110	P	12/20/2024	16:07	LB134054
	Beryllium	486	510	95	90 - 110	P	12/20/2024	16:07	LB134054
	Cadmium	502	510	98	90 - 110	P	12/20/2024	16:07	LB134054
	Calcium	9510	10000	95	90 - 110	P	12/20/2024	16:07	LB134054
	Chromium	534	520	103	90 - 110	P	12/20/2024	16:07	LB134054
	Cobalt	508	520	98	90 - 110	P	12/20/2024	16:07	LB134054
	Copper	522	510	102	90 - 110	P	12/20/2024	16:07	LB134054
	Iron	10100	10000	101	90 - 110	P	12/20/2024	16:07	LB134054
	Lead	1000	1000	100	90 - 110	P	12/20/2024	16:07	LB134054
	Magnesium	5690	6000	95	90 - 110	P	12/20/2024	16:07	LB134054
	Manganese	494	520	95	90 - 110	P	12/20/2024	16:07	LB134054
	Nickel	510	530	96	90 - 110	P	12/20/2024	16:07	LB134054
	Potassium	9870	9900	100	90 - 110	P	12/20/2024	16:07	LB134054
	Selenium	1020	1000	102	90 - 110	P	12/20/2024	16:07	LB134054
	Silver	251	250	100	90 - 110	P	12/20/2024	16:07	LB134054
	Sodium	9880	10000	99	90 - 110	P	12/20/2024	16:07	LB134054
	Thallium	1010	1000	101	90 - 110	P	12/20/2024	16:07	LB134054
	Vanadium	465	500	93	90 - 110	P	12/20/2024	16:07	LB134054
	Zinc	1010	1000	101	90 - 110	P	12/20/2024	16:07	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: P5299
Contract: PORT06 Lab Code: CHEM Case No.: P5299 SAS No.: P5299
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	98.4	100	98	80 - 120	P	12/20/2024	16:11	LB134054
	Antimony	50.1	50.0	100	80 - 120	P	12/20/2024	16:11	LB134054
	Arsenic	19.0	20.0	95	80 - 120	P	12/20/2024	16:11	LB134054
	Barium	87.9	100	88	80 - 120	P	12/20/2024	16:11	LB134054
	Beryllium	5.75	6.0	96	80 - 120	P	12/20/2024	16:11	LB134054
	Cadmium	5.80	6.0	97	80 - 120	P	12/20/2024	16:11	LB134054
	Calcium	1870	2000	93	80 - 120	P	12/20/2024	16:11	LB134054
	Chromium	9.98	10.0	100	80 - 120	P	12/20/2024	16:11	LB134054
	Cobalt	29.1	30.0	97	80 - 120	P	12/20/2024	16:11	LB134054
	Copper	21.8	20.0	109	80 - 120	P	12/20/2024	16:11	LB134054
	Iron	94.2	100	94	80 - 120	P	12/20/2024	16:11	LB134054
	Lead	12.1	12.0	101	80 - 120	P	12/20/2024	16:11	LB134054
	Magnesium	2050	2000	103	80 - 120	P	12/20/2024	16:11	LB134054
	Manganese	19.3	20.0	97	80 - 120	P	12/20/2024	16:11	LB134054
	Nickel	38.9	40.0	97	80 - 120	P	12/20/2024	16:11	LB134054
	Potassium	2020	2000	101	80 - 120	P	12/20/2024	16:11	LB134054
	Selenium	19.7	20.0	98	80 - 120	P	12/20/2024	16:11	LB134054
	Silver	10.3	10.0	103	80 - 120	P	12/20/2024	16:11	LB134054
	Sodium	1940	2000	97	80 - 120	P	12/20/2024	16:11	LB134054
	Thallium	38.7	40.0	97	80 - 120	P	12/20/2024	16:11	LB134054
	Vanadium	35.2	40.0	88	80 - 120	P	12/20/2024	16:11	LB134054
	Zinc	38.9	40.0	97	80 - 120	P	12/20/2024	16:11	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: P5299

Contract: PORT06 Lab Code: CHEM Case No.: P5299 SAS No.: P5299

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9490	10000	95	90 - 110	P	12/20/2024	16:47	LB134054
	Antimony	4820	5000	96	90 - 110	P	12/20/2024	16:47	LB134054
	Arsenic	4800	5000	96	90 - 110	P	12/20/2024	16:47	LB134054
	Barium	9130	10000	91	90 - 110	P	12/20/2024	16:47	LB134054
	Beryllium	237	250	95	90 - 110	P	12/20/2024	16:47	LB134054
	Cadmium	2420	2500	97	90 - 110	P	12/20/2024	16:47	LB134054
	Calcium	23500	25000	94	90 - 110	P	12/20/2024	16:47	LB134054
	Chromium	1000	1000	100	90 - 110	P	12/20/2024	16:47	LB134054
	Cobalt	2410	2500	96	90 - 110	P	12/20/2024	16:47	LB134054
	Copper	1220	1250	97	90 - 110	P	12/20/2024	16:47	LB134054
	Iron	4860	5000	97	90 - 110	P	12/20/2024	16:47	LB134054
	Lead	4830	5000	96	90 - 110	P	12/20/2024	16:47	LB134054
	Magnesium	24000	25000	96	90 - 110	P	12/20/2024	16:47	LB134054
	Manganese	2410	2500	96	90 - 110	P	12/20/2024	16:47	LB134054
	Nickel	2410	2500	96	90 - 110	P	12/20/2024	16:47	LB134054
	Potassium	24000	25000	96	90 - 110	P	12/20/2024	16:47	LB134054
	Selenium	4790	5000	96	90 - 110	P	12/20/2024	16:47	LB134054
	Silver	1220	1250	98	90 - 110	P	12/20/2024	16:47	LB134054
	Sodium	24400	25000	98	90 - 110	P	12/20/2024	16:47	LB134054
	Thallium	4830	5000	97	90 - 110	P	12/20/2024	16:47	LB134054
	Vanadium	2360	2500	94	90 - 110	P	12/20/2024	16:47	LB134054
	Zinc	2440	2500	98	90 - 110	P	12/20/2024	16:47	LB134054
CCV02	Aluminum	9650	10000	96	90 - 110	P	12/20/2024	17:29	LB134054
	Antimony	4990	5000	100	90 - 110	P	12/20/2024	17:29	LB134054
	Arsenic	5010	5000	100	90 - 110	P	12/20/2024	17:29	LB134054
	Barium	9240	10000	92	90 - 110	P	12/20/2024	17:29	LB134054
	Beryllium	242	250	97	90 - 110	P	12/20/2024	17:29	LB134054
	Cadmium	2490	2500	100	90 - 110	P	12/20/2024	17:29	LB134054
	Calcium	23900	25000	96	90 - 110	P	12/20/2024	17:29	LB134054
	Chromium	1020	1000	102	90 - 110	P	12/20/2024	17:29	LB134054
	Cobalt	2470	2500	99	90 - 110	P	12/20/2024	17:29	LB134054
	Copper	1260	1250	101	90 - 110	P	12/20/2024	17:29	LB134054
	Iron	4900	5000	98	90 - 110	P	12/20/2024	17:29	LB134054
	Lead	4970	5000	99	90 - 110	P	12/20/2024	17:29	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: P5299
Contract: PORT06 Lab Code: CHEM Case No.: P5299 SAS No.: P5299
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24300	25000	97	90 - 110	P	12/20/2024	17:29	LB134054
	Manganese	2460	2500	99	90 - 110	P	12/20/2024	17:29	LB134054
	Nickel	2480	2500	99	90 - 110	P	12/20/2024	17:29	LB134054
	Potassium	24600	25000	98	90 - 110	P	12/20/2024	17:29	LB134054
	Selenium	5020	5000	100	90 - 110	P	12/20/2024	17:29	LB134054
	Silver	1250	1250	100	90 - 110	P	12/20/2024	17:29	LB134054
	Sodium	25200	25000	101	90 - 110	P	12/20/2024	17:29	LB134054
	Thallium	4930	5000	99	90 - 110	P	12/20/2024	17:29	LB134054
	Vanadium	2390	2500	96	90 - 110	P	12/20/2024	17:29	LB134054
	Zinc	2500	2500	100	90 - 110	P	12/20/2024	17:29	LB134054
CCV03	Aluminum	9770	10000	98	90 - 110	P	12/20/2024	18:12	LB134054
	Antimony	4970	5000	99	90 - 110	P	12/20/2024	18:12	LB134054
	Arsenic	4960	5000	99	90 - 110	P	12/20/2024	18:12	LB134054
	Barium	9430	10000	94	90 - 110	P	12/20/2024	18:12	LB134054
	Beryllium	244	250	98	90 - 110	P	12/20/2024	18:12	LB134054
	Cadmium	2480	2500	99	90 - 110	P	12/20/2024	18:12	LB134054
	Calcium	24300	25000	97	90 - 110	P	12/20/2024	18:12	LB134054
	Chromium	1020	1000	102	90 - 110	P	12/20/2024	18:12	LB134054
	Cobalt	2470	2500	99	90 - 110	P	12/20/2024	18:12	LB134054
	Copper	1250	1250	100	90 - 110	P	12/20/2024	18:12	LB134054
	Iron	4940	5000	99	90 - 110	P	12/20/2024	18:12	LB134054
	Lead	4950	5000	99	90 - 110	P	12/20/2024	18:12	LB134054
	Magnesium	24800	25000	99	90 - 110	P	12/20/2024	18:12	LB134054
	Manganese	2480	2500	99	90 - 110	P	12/20/2024	18:12	LB134054
	Nickel	2480	2500	99	90 - 110	P	12/20/2024	18:12	LB134054
	Potassium	24700	25000	99	90 - 110	P	12/20/2024	18:12	LB134054
	Selenium	4960	5000	99	90 - 110	P	12/20/2024	18:12	LB134054
	Silver	1250	1250	100	90 - 110	P	12/20/2024	18:12	LB134054
	Sodium	25200	25000	101	90 - 110	P	12/20/2024	18:12	LB134054
	Thallium	4950	5000	99	90 - 110	P	12/20/2024	18:12	LB134054
	Vanadium	2440	2500	98	90 - 110	P	12/20/2024	18:12	LB134054
	Zinc	2500	2500	100	90 - 110	P	12/20/2024	18:12	LB134054
CCV04	Aluminum	9620	10000	96	90 - 110	P	12/20/2024	19:02	LB134054
	Antimony	4920	5000	98	90 - 110	P	12/20/2024	19:02	LB134054

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: P5299
Contract: PORT06 Lab Code: CHEM Case No.: P5299 SAS No.: P5299
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4910	5000	98	90 - 110	P	12/20/2024	19:02	LB134054
	Barium	9150	10000	92	90 - 110	P	12/20/2024	19:02	LB134054
	Beryllium	240	250	96	90 - 110	P	12/20/2024	19:02	LB134054
	Cadmium	2440	2500	98	90 - 110	P	12/20/2024	19:02	LB134054
	Calcium	23800	25000	95	90 - 110	P	12/20/2024	19:02	LB134054
	Chromium	1010	1000	101	90 - 110	P	12/20/2024	19:02	LB134054
	Cobalt	2440	2500	98	90 - 110	P	12/20/2024	19:02	LB134054
	Copper	1240	1250	99	90 - 110	P	12/20/2024	19:02	LB134054
	Iron	4880	5000	98	90 - 110	P	12/20/2024	19:02	LB134054
	Lead	4890	5000	98	90 - 110	P	12/20/2024	19:02	LB134054
	Magnesium	24500	25000	98	90 - 110	P	12/20/2024	19:02	LB134054
	Manganese	2450	2500	98	90 - 110	P	12/20/2024	19:02	LB134054
	Nickel	2440	2500	98	90 - 110	P	12/20/2024	19:02	LB134054
	Potassium	24400	25000	97	90 - 110	P	12/20/2024	19:02	LB134054
	Selenium	4920	5000	98	90 - 110	P	12/20/2024	19:02	LB134054
	Silver	1240	1250	99	90 - 110	P	12/20/2024	19:02	LB134054
	Sodium	24900	25000	100	90 - 110	P	12/20/2024	19:02	LB134054
	Thallium	4930	5000	98	90 - 110	P	12/20/2024	19:02	LB134054
	Vanadium	2380	2500	95	90 - 110	P	12/20/2024	19:02	LB134054
	Zinc	2470	2500	99	90 - 110	P	12/20/2024	19:02	LB134054
CCV05	Aluminum	9790	10000	98	90 - 110	P	12/20/2024	19:57	LB134054
	Antimony	5040	5000	101	90 - 110	P	12/20/2024	19:57	LB134054
	Arsenic	5060	5000	101	90 - 110	P	12/20/2024	19:57	LB134054
	Barium	9370	10000	94	90 - 110	P	12/20/2024	19:57	LB134054
	Beryllium	242	250	97	90 - 110	P	12/20/2024	19:57	LB134054
	Cadmium	2510	2500	100	90 - 110	P	12/20/2024	19:57	LB134054
	Calcium	24300	25000	97	90 - 110	P	12/20/2024	19:57	LB134054
	Chromium	1030	1000	103	90 - 110	P	12/20/2024	19:57	LB134054
	Cobalt	2500	2500	100	90 - 110	P	12/20/2024	19:57	LB134054
	Copper	1270	1250	102	90 - 110	P	12/20/2024	19:57	LB134054
	Iron	5060	5000	101	90 - 110	P	12/20/2024	19:57	LB134054
	Lead	5020	5000	100	90 - 110	P	12/20/2024	19:57	LB134054
	Magnesium	24900	25000	100	90 - 110	P	12/20/2024	19:57	LB134054
	Manganese	2490	2500	99	90 - 110	P	12/20/2024	19:57	LB134054

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: P5299
Contract: PORT06 Lab Code: CHEM Case No.: P5299 SAS No.: P5299
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2510	2500	100	90 - 110	P	12/20/2024	19:57	LB134054
	Potassium	25300	25000	101	90 - 110	P	12/20/2024	19:57	LB134054
	Selenium	5070	5000	102	90 - 110	P	12/20/2024	19:57	LB134054
	Silver	1260	1250	101	90 - 110	P	12/20/2024	19:57	LB134054
	Sodium	25700	25000	103	90 - 110	P	12/20/2024	19:57	LB134054
	Thallium	5040	5000	101	90 - 110	P	12/20/2024	19:57	LB134054
	Vanadium	2430	2500	97	90 - 110	P	12/20/2024	19:57	LB134054
	Zinc	2520	2500	101	90 - 110	P	12/20/2024	19:57	LB134054
CCV06	Aluminum	9520	10000	95	90 - 110	P	12/20/2024	20:47	LB134054
	Antimony	4840	5000	97	90 - 110	P	12/20/2024	20:47	LB134054
	Arsenic	4830	5000	96	90 - 110	P	12/20/2024	20:47	LB134054
	Barium	9020	10000	90	90 - 110	P	12/20/2024	20:47	LB134054
	Beryllium	237	250	95	90 - 110	P	12/20/2024	20:47	LB134054
	Cadmium	2410	2500	96	90 - 110	P	12/20/2024	20:47	LB134054
	Calcium	23400	25000	94	90 - 110	P	12/20/2024	20:47	LB134054
	Chromium	995	1000	100	90 - 110	P	12/20/2024	20:47	LB134054
	Cobalt	2390	2500	96	90 - 110	P	12/20/2024	20:47	LB134054
	Copper	1220	1250	98	90 - 110	P	12/20/2024	20:47	LB134054
	Iron	4770	5000	95	90 - 110	P	12/20/2024	20:47	LB134054
	Lead	4800	5000	96	90 - 110	P	12/20/2024	20:47	LB134054
	Magnesium	24500	25000	98	90 - 110	P	12/20/2024	20:47	LB134054
	Manganese	2420	2500	97	90 - 110	P	12/20/2024	20:47	LB134054
	Nickel	2400	2500	96	90 - 110	P	12/20/2024	20:47	LB134054
	Potassium	23900	25000	96	90 - 110	P	12/20/2024	20:47	LB134054
	Selenium	4830	5000	97	90 - 110	P	12/20/2024	20:47	LB134054
	Silver	1210	1250	97	90 - 110	P	12/20/2024	20:47	LB134054
	Sodium	24300	25000	97	90 - 110	P	12/20/2024	20:47	LB134054
	Thallium	4850	5000	97	90 - 110	P	12/20/2024	20:47	LB134054
	Vanadium	2350	2500	94	90 - 110	P	12/20/2024	20:47	LB134054
	Zinc	2420	2500	97	90 - 110	P	12/20/2024	20:47	LB134054
CCV07	Aluminum	9680	10000	97	90 - 110	P	12/20/2024	21:37	LB134054
	Antimony	4900	5000	98	90 - 110	P	12/20/2024	21:37	LB134054
	Arsenic	4880	5000	98	90 - 110	P	12/20/2024	21:37	LB134054
	Barium	9110	10000	91	90 - 110	P	12/20/2024	21:37	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: P5299
Contract: PORT06 Lab Code: CHEM Case No.: P5299 SAS No.: P5299
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	242	250	97	90 - 110	P	12/20/2024	21:37	LB134054
	Cadmium	2430	2500	97	90 - 110	P	12/20/2024	21:37	LB134054
	Calcium	23700	25000	95	90 - 110	P	12/20/2024	21:37	LB134054
	Chromium	1010	1000	101	90 - 110	P	12/20/2024	21:37	LB134054
	Cobalt	2430	2500	97	90 - 110	P	12/20/2024	21:37	LB134054
	Copper	1230	1250	99	90 - 110	P	12/20/2024	21:37	LB134054
	Iron	4820	5000	96	90 - 110	P	12/20/2024	21:37	LB134054
	Lead	4860	5000	97	90 - 110	P	12/20/2024	21:37	LB134054
	Magnesium	24700	25000	99	90 - 110	P	12/20/2024	21:37	LB134054
	Manganese	2460	2500	98	90 - 110	P	12/20/2024	21:37	LB134054
	Nickel	2430	2500	97	90 - 110	P	12/20/2024	21:37	LB134054
	Potassium	24100	25000	96	90 - 110	P	12/20/2024	21:37	LB134054
	Selenium	4890	5000	98	90 - 110	P	12/20/2024	21:37	LB134054
	Silver	1230	1250	99	90 - 110	P	12/20/2024	21:37	LB134054
	Sodium	24500	25000	98	90 - 110	P	12/20/2024	21:37	LB134054
	Thallium	4910	5000	98	90 - 110	P	12/20/2024	21:37	LB134054
	Vanadium	2380	2500	95	90 - 110	P	12/20/2024	21:37	LB134054
	Zinc	2460	2500	98	90 - 110	P	12/20/2024	21:37	LB134054
CCV08	Aluminum	9610	10000	96	90 - 110	P	12/20/2024	23:01	LB134054
	Antimony	5010	5000	100	90 - 110	P	12/20/2024	23:01	LB134054
	Arsenic	5020	5000	100	90 - 110	P	12/20/2024	23:01	LB134054
	Barium	9290	10000	93	90 - 110	P	12/20/2024	23:01	LB134054
	Beryllium	238	250	95	90 - 110	P	12/20/2024	23:01	LB134054
	Cadmium	2480	2500	99	90 - 110	P	12/20/2024	23:01	LB134054
	Calcium	23900	25000	95	90 - 110	P	12/20/2024	23:01	LB134054
	Chromium	1020	1000	102	90 - 110	P	12/20/2024	23:01	LB134054
	Cobalt	2470	2500	99	90 - 110	P	12/20/2024	23:01	LB134054
	Copper	1260	1250	101	90 - 110	P	12/20/2024	23:01	LB134054
	Iron	4980	5000	100	90 - 110	P	12/20/2024	23:01	LB134054
	Lead	4960	5000	99	90 - 110	P	12/20/2024	23:01	LB134054
	Magnesium	24500	25000	98	90 - 110	P	12/20/2024	23:01	LB134054
	Manganese	2450	2500	98	90 - 110	P	12/20/2024	23:01	LB134054
	Nickel	2480	2500	99	90 - 110	P	12/20/2024	23:01	LB134054
	Potassium	24900	25000	100	90 - 110	P	12/20/2024	23:01	LB134054

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: P5299

Contract: PORT06 Lab Code: CHEM Case No.: P5299 SAS No.: P5299

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	5050	5000	101	90 - 110	P	12/20/2024	23:01	LB134054
	Silver	1250	1250	100	90 - 110	P	12/20/2024	23:01	LB134054
	Sodium	25400	25000	102	90 - 110	P	12/20/2024	23:01	LB134054
	Thallium	4970	5000	99	90 - 110	P	12/20/2024	23:01	LB134054
	Vanadium	2400	2500	96	90 - 110	P	12/20/2024	23:01	LB134054
	Zinc	2480	2500	99	90 - 110	P	12/20/2024	23:01	LB134054
CCV09	Aluminum	9660	10000	97	90 - 110	P	12/20/2024	23:55	LB134054
	Antimony	4970	5000	100	90 - 110	P	12/20/2024	23:55	LB134054
	Arsenic	4940	5000	99	90 - 110	P	12/20/2024	23:55	LB134054
	Barium	9220	10000	92	90 - 110	P	12/20/2024	23:55	LB134054
	Beryllium	239	250	96	90 - 110	P	12/20/2024	23:55	LB134054
	Cadmium	2450	2500	98	90 - 110	P	12/20/2024	23:55	LB134054
	Calcium	23800	25000	95	90 - 110	P	12/20/2024	23:55	LB134054
	Chromium	1020	1000	102	90 - 110	P	12/20/2024	23:55	LB134054
	Cobalt	2450	2500	98	90 - 110	P	12/20/2024	23:55	LB134054
	Copper	1250	1250	100	90 - 110	P	12/20/2024	23:55	LB134054
	Iron	4940	5000	99	90 - 110	P	12/20/2024	23:55	LB134054
	Lead	4900	5000	98	90 - 110	P	12/20/2024	23:55	LB134054
	Magnesium	24400	25000	98	90 - 110	P	12/20/2024	23:55	LB134054
	Manganese	2460	2500	98	90 - 110	P	12/20/2024	23:55	LB134054
	Nickel	2450	2500	98	90 - 110	P	12/20/2024	23:55	LB134054
	Potassium	24700	25000	99	90 - 110	P	12/20/2024	23:55	LB134054
	Selenium	4950	5000	99	90 - 110	P	12/20/2024	23:55	LB134054
	Silver	1240	1250	99	90 - 110	P	12/20/2024	23:55	LB134054
	Sodium	25200	25000	101	90 - 110	P	12/20/2024	23:55	LB134054
	Thallium	4950	5000	99	90 - 110	P	12/20/2024	23:55	LB134054
	Vanadium	2400	2500	96	90 - 110	P	12/20/2024	23:55	LB134054
	Zinc	2460	2500	98	90 - 110	P	12/20/2024	23:55	LB134054



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

Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture

SDG No.: P5299

Contract: PORT06

Lab Code: CHEM

Case No.: P5299

SAS No.: P5299

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	0.16	0.2	82	40 - 160	CV	12/18/2024	13:45	LB133991
CRI01	Aluminum	102	100	102	40 - 160	P	12/20/2024	16:26	LB134054
	Antimony	49.3	50.0	99	40 - 160	P	12/20/2024	16:26	LB134054
	Arsenic	21.1	20.0	106	40 - 160	P	12/20/2024	16:26	LB134054
	Barium	87.8	100	88	40 - 160	P	12/20/2024	16:26	LB134054
	Beryllium	5.71	6.0	95	40 - 160	P	12/20/2024	16:26	LB134054
	Cadmium	5.88	6.0	98	40 - 160	P	12/20/2024	16:26	LB134054
	Calcium	1880	2000	94	40 - 160	P	12/20/2024	16:26	LB134054
	Chromium	10.2	10.0	102	40 - 160	P	12/20/2024	16:26	LB134054
	Cobalt	29.0	30.0	97	40 - 160	P	12/20/2024	16:26	LB134054
	Copper	21.8	20.0	109	40 - 160	P	12/20/2024	16:26	LB134054
	Iron	96.6	100	97	40 - 160	P	12/20/2024	16:26	LB134054
	Lead	11.1	12.0	93	40 - 160	P	12/20/2024	16:26	LB134054
	Magnesium	2050	2000	103	40 - 160	P	12/20/2024	16:26	LB134054
	Manganese	18.9	20.0	95	40 - 160	P	12/20/2024	16:26	LB134054
	Nickel	39.0	40.0	98	40 - 160	P	12/20/2024	16:26	LB134054
	Potassium	2100	2000	105	40 - 160	P	12/20/2024	16:26	LB134054
	Selenium	18.3	20.0	92	40 - 160	P	12/20/2024	16:26	LB134054
	Silver	10.3	10.0	103	40 - 160	P	12/20/2024	16:26	LB134054
	Sodium	1950	2000	97	40 - 160	P	12/20/2024	16:26	LB134054
	Thallium	38.5	40.0	96	40 - 160	P	12/20/2024	16:26	LB134054
	Vanadium	33.3	40.0	83	40 - 160	P	12/20/2024	16:26	LB134054
	Zinc	38.8	40.0	97	40 - 160	P	12/20/2024	16:26	LB134054

Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P5299
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P5299 **SAS No.:** P5299
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	239000	255000	94	216000	294000	12/20/2024	16:30	LB134054
	Antimony	0.15			-50	50	12/20/2024	16:30	LB134054
	Arsenic	-1.51			-20	20	12/20/2024	16:30	LB134054
	Barium	2.79	6.0	46	-94	106	12/20/2024	16:30	LB134054
	Beryllium	1.43			-6	6	12/20/2024	16:30	LB134054
	Cadmium	-0.99	1.0	99	-5	7	12/20/2024	16:30	LB134054
	Calcium	225000	245000	92	208000	282000	12/20/2024	16:30	LB134054
	Chromium	60.0	52.0	115	42	62	12/20/2024	16:30	LB134054
	Cobalt	1.46			-30	30	12/20/2024	16:30	LB134054
	Copper	16.4	2.0	820	-18	22	12/20/2024	16:30	LB134054
	Iron	103000	101000	102	85600	116500	12/20/2024	16:30	LB134054
	Lead	6.97			-12	12	12/20/2024	16:30	LB134054
	Magnesium	247000	255000	97	216000	294000	12/20/2024	16:30	LB134054
	Manganese	4.79	7.0	68	-13	27	12/20/2024	16:30	LB134054
	Nickel	2.13	2.0	106	-38	42	12/20/2024	16:30	LB134054
	Potassium	136			0	0	12/20/2024	16:30	LB134054
	Selenium	-16.6			-20	20	12/20/2024	16:30	LB134054
	Silver	-3.17			-10	10	12/20/2024	16:30	LB134054
	Sodium	5.98			0	0	12/20/2024	16:30	LB134054
	Thallium	11.1			-40	40	12/20/2024	16:30	LB134054
	Vanadium	4.97			-40	40	12/20/2024	16:30	LB134054
	Zinc	0.10			-40	40	12/20/2024	16:30	LB134054
ICSAB01	Aluminum	236000	247000	96	209000	285000	12/20/2024	16:34	LB134054
	Antimony	632	618	102	525	711	12/20/2024	16:34	LB134054
	Arsenic	113	104	109	88.4	120	12/20/2024	16:34	LB134054
	Barium	460	537	86	437	637	12/20/2024	16:34	LB134054
	Beryllium	492	495	99	420	570	12/20/2024	16:34	LB134054
	Cadmium	1040	972	107	826	1120	12/20/2024	16:34	LB134054
	Calcium	222000	235000	94	199000	271000	12/20/2024	16:34	LB134054
	Chromium	604	542	111	460	624	12/20/2024	16:34	LB134054
	Cobalt	523	476	110	404	548	12/20/2024	16:34	LB134054
	Copper	520	511	102	434	588	12/20/2024	16:34	LB134054
	Iron	101000	99300	102	84400	114500	12/20/2024	16:34	LB134054
	Lead	56.2	49.0	115	37	61	12/20/2024	16:34	LB134054
	Magnesium	244000	248000	98	210000	286000	12/20/2024	16:34	LB134054
	Manganese	487	507	96	430	584	12/20/2024	16:34	LB134054
	Nickel	1040	954	109	810	1100	12/20/2024	16:34	LB134054
	Potassium	163			0	0	12/20/2024	16:34	LB134054
	Selenium	34.2	46.0	74	26	66	12/20/2024	16:34	LB134054
	Silver	201	201	100	170	232	12/20/2024	16:34	LB134054
	Sodium	5.70			0	0	12/20/2024	16:34	LB134054
	Thallium	95.5	108	88	68	148	12/20/2024	16:34	LB134054

Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P5299
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P5299 **SAS No.:** P5299
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	474	491	96	417	565	12/20/2024	16:34	LB134054
	Zinc	1080	952	113	809	1095	12/20/2024	16:34	LB134054



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>Portal Partners Tri-Venture</u>	level:	<u>low</u>	sdg no.:	<u>P5299</u>		
contract:	<u>PORT06</u>	lab code:	<u>CHEM</u>	case no.:	<u>P5299</u>	sas no.:	<u>P5299</u>
matrix:	<u>Solid</u>	sample id:	<u>P5299-04</u>	client id:	<u>SB-02MS</u>		
Percent Solids for Sample:	79.2	Spiked ID:	P5299-04MS	Percent Solids for Spike Sample:	79.2		

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	6830		6080		120	625		P
Antimony	mg/Kg	75 - 125	16.2		2.92	U	47.0	34	N	P
Arsenic	mg/Kg	75 - 125	38.9		1.80		47.0	79		P
Barium	mg/Kg	75 - 125	40.6		35.4		11.7	45	N	P
Beryllium	mg/Kg	75 - 125	9.20		0.52		11.7	74	N	P
Cadmium	mg/Kg	75 - 125	11.0		0.058	J	11.7	94		P
Calcium	mg/Kg	75 - 125	825		995		58.7	-290		P
Chromium	mg/Kg	75 - 125	34.5		18.6		23.5	67	N	P
Cobalt	mg/Kg	75 - 125	17.3		5.94		11.7	97		P
Copper	mg/Kg	75 - 125	28.0		14.6		17.6	76		P
Iron	mg/Kg	75 - 125	11400		13100		180	-992		P
Lead	mg/Kg	75 - 125	65.9		11.4		58.7	93		P
Magnesium	mg/Kg	75 - 125	2130		1980		120	121		P
Manganese	mg/Kg	75 - 125	134		136		11.7	-16		P
Nickel	mg/Kg	75 - 125	39.6		12.8		29.4	91		P
Potassium	mg/Kg	75 - 125	1180		801		590	64	N	P
Selenium	mg/Kg	75 - 125	83.1		1.17	U	120	69	N	P
Silver	mg/Kg	75 - 125	3.46		0.59	U	4.4	79		P
Sodium	mg/Kg	75 - 125	261		120		180	79		P
Thallium	mg/Kg	75 - 125	108		2.34	U	120	90		P
Vanadium	mg/Kg	75 - 125	27.8		15.9		17.6	68	N	P
Zinc	mg/Kg	75 - 125	38.4		27.2		11.7	96		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Portal Partners Tri-Venture</u>	level:	<u>low</u>	sdg no.:	<u>P5299</u>
contract:	<u>PORT06</u>	lab code:	<u>CHEM</u>	case no.:	<u>P5299</u>
matrix:	<u>Solid</u>	sample id:	<u>P5299-04</u>	client id:	<u>SB-02MSD</u>
Percent Solids for Sample:	79.2	Spiked ID:	P5299-04MSD	Percent Solids for Spike Sample:	79.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5940		6080		100	-134		P
Antimony	mg/Kg	75 - 125	14.4		2.92	U	40.9	35	N	P
Arsenic	mg/Kg	75 - 125	34.8		1.80		40.9	81		P
Barium	mg/Kg	75 - 125	35.4		35.4		10.2	0	N	P
Beryllium	mg/Kg	75 - 125	8.14		0.52		10.2	75		P
Cadmium	mg/Kg	75 - 125	9.77		0.058	J	10.2	95		P
Calcium	mg/Kg	75 - 125	711		995		51.1	-557		P
Chromium	mg/Kg	75 - 125	30.1		18.6		20.4	56	N	P
Cobalt	mg/Kg	75 - 125	15.2		5.94		10.2	91		P
Copper	mg/Kg	75 - 125	25.1		14.6		15.3	68	N	P
Iron	mg/Kg	75 - 125	9860		13100		150	-2190		P
Lead	mg/Kg	75 - 125	58.7		11.4		51.1	93		P
Magnesium	mg/Kg	75 - 125	1830		1980		100	-157		P
Manganese	mg/Kg	75 - 125	116		136		10.2	-194		P
Nickel	mg/Kg	75 - 125	35.1		12.8		25.6	87		P
Potassium	mg/Kg	75 - 125	1020		801		510	44	N	P
Selenium	mg/Kg	75 - 125	74.0		1.17	U	100	74	N	P
Silver	mg/Kg	75 - 125	3.02		0.59	U	3.8	80		P
Sodium	mg/Kg	75 - 125	225		120		150	70	N	P
Thallium	mg/Kg	75 - 125	95.0		2.34	U	100	95		P
Vanadium	mg/Kg	75 - 125	24.0		15.9		15.3	53	N	P
Zinc	mg/Kg	75 - 125	33.7		27.2		10.2	64	N	P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>Portal Partners Tri-Venture</u>	level: <u>low</u>	sdg no.: <u>P5299</u>
contract: <u>PORT06</u>	lab code: <u>CHEM</u>	case no.: <u>P5299</u> sas no.: <u>P5299</u>
matrix: <u>Solid</u>	sample id: <u>P5301-03</u>	client id: <u>HR-04-121624MS</u>
Percent Solids for Sample: 89.4	Spiked ID: P5301-03MS	Percent Solids for Spike Sample: 89.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.25		0.035		0.28	77	N	CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Portal Partners Tri-Venture</u>	level: <u>low</u>	sdg no.: <u>P5299</u>
contract: <u>PORT06</u>	lab code: <u>CHEM</u>	case no.: <u>P5299</u> sas no.: <u>P5299</u>
matrix: <u>Solid</u>	sample id: <u>P5301-03</u>	client id: <u>HR-04-121624MSD</u>
Percent Solids for Sample: 89.4	Spiked ID: P5301-03MSD	Percent Solids for Spike Sample: 89.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.24		0.035		0.28	74	N	CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: <u>Portal Partners Tri-Venture</u>	SDG No.: <u>P5299</u>	
Contract: <u>PORT06</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P5299</u> SAS No.: <u>P5299</u>
Matrix: <u>Solid</u>	Level: <u>LOW</u>	Client ID: <u>SB-02A</u>
Sample ID: <u>P5299-04</u>	Spiked ID: <u>P5299-04A</u>	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	16.2		2.92	U	46.8	35		P
Barium	mg/Kg	75 - 125	40.4		35.4		11.7	43		P
Beryllium	mg/Kg	75 - 125	9.31		0.52		11.7	75		P
Chromium	mg/Kg	75 - 125	34.3		18.6		23.4	67		P
Copper	mg/Kg	75 - 125	28.4		14.6		17.5	79		P
Potassium	mg/Kg	75 - 125	1160		801		580	61		P
Selenium	mg/Kg	75 - 125	83.7		1.17	U	120	70		P
Sodium	mg/Kg	75 - 125	256		120		180	76		P
Vanadium	mg/Kg	75 - 125	27.7		15.9		17.5	67		P
Zinc	mg/Kg	75 - 125	38.2		27.2		11.7	94		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	SDG No.:	<u>P5299</u>				
Contract:	<u>PORT06</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P5299</u>	SAS No.:	<u>P5299</u>
Matrix:	<u>Solid</u>	Level:	<u>LOW</u>	Client ID:	<u>HR-04-121624A</u>		
Sample ID:	<u>P5301-03</u>	Spiked ID:	<u>P5301-03A</u>				

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.29		0.035		0.30	85		CV

A
B
C
D
E
F
G
H
I
J

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P5299
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P5299 **SAS No.:** P5299
Matrix: Solid **Sample ID:** P5299-04 **Client ID:** SB-02DUP
Percent Solids for Sample: 79.2 **Duplicate ID** P5299-04DUP **Percent Solids for Spike Sample:** 79.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6080		5860		4		P
Antimony	mg/Kg	20	2.92	U	2.79	U			P
Arsenic	mg/Kg	20	1.80		1.72		5		P
Barium	mg/Kg	20	35.4		33.9		4		P
Beryllium	mg/Kg	20	0.52		0.51		3		P
Cadmium	mg/Kg	20	0.058	J	0.045	J	25		P
Calcium	mg/Kg	20	995		959		4		P
Chromium	mg/Kg	20	18.6		18.0		3		P
Cobalt	mg/Kg	20	5.94		5.75		3		P
Copper	mg/Kg	20	14.6		14.1		3		P
Iron	mg/Kg	20	13100		12700		3		P
Lead	mg/Kg	20	11.4		10.9		4		P
Magnesium	mg/Kg	20	1980		1910		4		P
Manganese	mg/Kg	20	136		131		4		P
Nickel	mg/Kg	20	12.8		12.3		4		P
Potassium	mg/Kg	20	801		770		4		P
Selenium	mg/Kg	20	1.17	U	1.12	U			P
Silver	mg/Kg	20	0.59	U	0.56	U			P
Sodium	mg/Kg	20	120		115		4		P
Thallium	mg/Kg	20	2.34	U	2.23	U			P
Vanadium	mg/Kg	20	15.9		15.3		4		P
Zinc	mg/Kg	20	27.2		26.4		3		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P5299
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P5299 **SAS No.:** P5299
Matrix: Solid **Sample ID:** P5299-04MS **Client ID:** SB-02MSD
Percent Solids for Sample: 79.2 **Duplicate ID** P5299-04MSD **Percent Solids for Spike Sample:** 79.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6830		5940		14		P
Antimony	mg/Kg	20	16.2		14.4		12		P
Arsenic	mg/Kg	20	38.9		34.8		11		P
Barium	mg/Kg	20	40.6		35.4		14		P
Beryllium	mg/Kg	20	9.20		8.14		12		P
Cadmium	mg/Kg	20	11.0		9.77		12		P
Calcium	mg/Kg	20	825		711		15		P
Chromium	mg/Kg	20	34.5		30.1		14		P
Cobalt	mg/Kg	20	17.3		15.2		13		P
Copper	mg/Kg	20	28.0		25.1		11		P
Iron	mg/Kg	20	11400		9860		14		P
Lead	mg/Kg	20	65.9		58.7		12		P
Magnesium	mg/Kg	20	2130		1830		15		P
Manganese	mg/Kg	20	134		116		14		P
Nickel	mg/Kg	20	39.6		35.1		12		P
Potassium	mg/Kg	20	1180		1020		15		P
Selenium	mg/Kg	20	83.1		74.0		12		P
Silver	mg/Kg	20	3.46		3.02		14		P
Sodium	mg/Kg	20	261		225		15		P
Thallium	mg/Kg	20	108		95.0		13		P
Vanadium	mg/Kg	20	27.8		24.0		15		P
Zinc	mg/Kg	20	38.4		33.7		13		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	Level:	<u>LOW</u>	SDG No.:	<u>P5299</u>
Contract:	<u>PORT06</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P5299</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>P5301-03</u>	Client ID:	<u>HR-04-121624DUP</u>
Percent Solids for Sample:	89.4	Duplicate ID	P5301-03DUP	Percent Solids for Spike Sample:	89.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.035		0.031		12		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	Level:	<u>LOW</u>	SDG No.:	<u>P5299</u>
Contract:	<u>PORT06</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P5299</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>P5301-03MS</u>	Client ID:	<u>HR-04-121624MSD</u>
Percent Solids for Sample:	89.4	Duplicate ID	P5301-03MSD	Percent Solids for Spike Sample:	89.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.25		0.24		3		CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P5299
Contract: PORT06 **Lab Code:** CHEM **Case No.:** P5299 **SAS No.:** P5299

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165722BS							
Aluminum	mg/Kg	88.1	79.5		90	80 - 120	P
Antimony	mg/Kg	35.2	33.9		96	80 - 120	P
Arsenic	mg/Kg	35.2	35.1		100	80 - 120	P
Barium	mg/Kg	8.8	7.36		84	80 - 120	P
Beryllium	mg/Kg	8.8	8.30		94	80 - 120	P
Cadmium	mg/Kg	8.8	8.38		95	80 - 120	P
Calcium	mg/Kg	44.1	40.7	J	92	80 - 120	P
Chromium	mg/Kg	17.6	17.8		101	80 - 120	P
Cobalt	mg/Kg	8.8	8.42		96	80 - 120	P
Copper	mg/Kg	13.2	13.4		102	80 - 120	P
Iron	mg/Kg	130	127		98	80 - 120	P
Lead	mg/Kg	44.1	42.0		95	80 - 120	P
Magnesium	mg/Kg	88.1	84.3	J	96	80 - 120	P
Manganese	mg/Kg	8.8	8.44		96	80 - 120	P
Nickel	mg/Kg	22.0	21.3		97	80 - 120	P
Potassium	mg/Kg	440	416		94	80 - 120	P
Selenium	mg/Kg	88.1	85.7		97	80 - 120	P
Silver	mg/Kg	3.3	3.28		99	80 - 120	P
Sodium	mg/Kg	130	128		98	80 - 120	P
Thallium	mg/Kg	88.1	85.7		97	80 - 120	P
Vanadium	mg/Kg	13.2	11.9		90	80 - 120	P
Zinc	mg/Kg	8.8	8.69		99	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: P5299

Contract: PORT06

Lab Code: CHEM

Case No.: P5299

SAS No.: P5299

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165728BS Mercury	mg/Kg	0.26	0.22		86	80 - 124	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

SB-02L

Lab Name: Chemtech Consulting Group

Contract: PORT06

Lab Code: CHEM Lb No.: lb134054 Lab Sample ID : P5299-04L SDG No.: P5299

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	6080		7050		16		P
Antimony	2.92	U	14.6	U			P
Arsenic	1.80		5.85	U	100.0		P
Barium	35.4		40.0		13		P
Beryllium	0.52		0.64	J	22		P
Cadmium	0.058	J	1.75	U	100.0		P
Calcium	995		1180		18		P
Chromium	18.6		22.4		20		P
Cobalt	5.94		6.00	J	1		P
Copper	14.6		17.6		20		P
Iron	13100		14900		13		P
Lead	11.4		12.0		5		P
Magnesium	1980		2370		19		P
Manganese	136		162		19		P
Nickel	12.8		13.2		3		P
Potassium	801		919		15		P
Selenium	1.17	U	5.85	U			P
Silver	0.59	U	2.92	U			P
Sodium	120		585	U	100.0		P
Thallium	2.34	U	11.7	U			P
Vanadium	15.9		17.7		11		P
Zinc	27.2		31.4		15		P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

HR-04-121624L

Lab Name: Chemtech Consulting Group **Contract:** PORT06
Lab Code: CHEM **Lb No.:** lb133991 **Lab Sample ID :** P5301-03L **SDG No.:** P5299
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.035	0.075 U	100.0		CV

metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture

Contract: PORT06

Lab code: CHEM **Case no.:** P5299 **Sas no.:** P5299

Sdg no.: P5299

Instrument id number: **Method:**

Run number: LB133991

Start date: 12/18/2024 **End date:** 12/18/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1319	HG
S0.2	S0.2	1	1322	HG
S2.5	S2.5	1	1324	HG
S5	S5	1	1326	HG
S7.5	S7.5	1	1328	HG
S10	S10	1	1331	HG
ICV24	ICV24	1	1336	HG
ICB24	ICB24	1	1339	HG
CCV42	CCV42	1	1341	HG
CCB42	CCB42	1	1343	HG
CRA	CRA	1	1345	HG
PB165728BL	PB165728BL	1	1352	HG
PB165728BS	PB165728BS	1	1355	HG
P5299-01	SB-01	1	1357	HG
P5299-02	SB-02	1	1359	HG
P5299-03	SB-01	1	1402	HG
P5299-04	SB-02	1	1404	HG
CCV43	CCV43	1	1408	HG
CCB43	CCB43	1	1411	HG
P5301-03DUP	HR-04-121624DUP	1	1425	HG
P5301-03MS	HR-04-121624MS	1	1427	HG
P5301-03MSD	HR-04-121624MSD	1	1429	HG
CCV44	CCV44	1	1445	HG
CCB44	CCB44	1	1448	HG
P5301-03L	HR-04-121624L	5	1503	HG
P5301-03A	HR-04-121624A	1	1505	HG
CCV45	CCV45	1	1507	HG
CCB45	CCB45	1	1509	HG

metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P5299 **Sas no.:** P5299 **Sdg no.:** P5299

Instrument id number: **Method:** **Run number:** LB134054

Start date: 12/20/2024 **End date:** 12/21/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1541	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1546	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	1550	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	1554	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	1558	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	1603	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1607	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	1611	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	1621	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	1626	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	1630	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	1634	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	1647	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	1651	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	1729	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	1734	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	1812	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	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5299-01	SB-01	1	1838	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	1902	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	1911	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	1957	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	2001	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5299-02	SB-02	1	2006	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5299-03	SB-01	1	2010	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5299-04	SB-02	1	2014	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5299-04DUP	SB-02DUP	1	2018	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5299-04L	SB-02L	5	2022	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5299-04MS	SB-02MS	1	2026	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5299-04MSD	SB-02MSD	1	2030	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5299-04A	SB-02A	1	2034	Ba,Be,Cr,Cu,K,Na,Sb,Se,V,Zn
PB165722BL	PB165722BL	1	2038	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165722BS	PB165722BS	1	2043	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2047	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	2051	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	2137	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	2204	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	2301	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2312	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2355	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	0005	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: P5299

Contract: PORT06

Lab Code: CHEM

Case No.: P5299

SAS No.: P5299

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: P5299

Contract: PORT06

Lab Code: CHEM

Case No.: P5299

SAS No.: P5299

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: P5299

Contract: PORT06

Lab Code: CHEM

Case No.: P5299

SAS No.: P5299

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: P5299

Contract: PORT06

Lab Code: CHEM

Case No.: P5299

SAS No.: P5299

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: P5299

Contract: PORT06

Lab Code: CHEM

Case No.: P5299

SAS No.: P5299

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

LAB CHRONICLE

OrderID:	P5299	OrderDate:	12/16/2024 12:24:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5299-01	SB-01	SOIL	Mercury	7471B	12/14/24	12/18/24	12/18/24	12/16/24
			Metals ICP-TAL	6010D		12/18/24	12/20/24	
P5299-02	SB-02	SOIL	Mercury	7471B	12/15/24	12/18/24	12/18/24	12/16/24
			Metals ICP-TAL	6010D		12/18/24	12/20/24	
P5299-03	SB-01	SOIL	Mercury	7471B	12/15/24	12/18/24	12/18/24	12/16/24
			Metals ICP-TAL	6010D		12/18/24	12/20/24	
P5299-04	SB-02	SOIL	Mercury	7471B	12/15/24	12/18/24	12/18/24	12/16/24
			Metals ICP-TAL	6010D		12/18/24	12/20/24	



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	SDG No.:	<u>P5299</u>
Contract:	<u>PORT06</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>P5299</u>
		SAS No.:	<u>P5299</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165722							
P5299-01	SB-01	SAM	SOLID	12/18/2024	2.12	100.0	78.50
P5299-02	SB-02	SAM	SOLID	12/18/2024	2.24	100.0	75.50
P5299-03	SB-01	SAM	SOLID	12/18/2024	2.32	100.0	68.80
P5299-04	SB-02	SAM	SOLID	12/18/2024	2.16	100.0	79.20
P5299-04DUP	SB-02DUP	DUP	SOLID	12/18/2024	2.26	100.0	79.20
P5299-04MS	SB-02MS	MS	SOLID	12/18/2024	2.15	100.0	79.20
P5299-04MSD	SB-02MSD	MSD	SOLID	12/18/2024	2.47	100.0	79.20
PB165722BL	PB165722BL	MB	SOLID	12/18/2024	2.27	100.0	100.00
PB165722BS	PB165722BS	LCS	SOLID	12/18/2024	2.27	100.0	100.00

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	SDG No.:	<u>P5299</u>
Contract:	<u>PORT06</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>P5299</u>
		SAS No.:	<u>P5299</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165728							
P5299-01	SB-01	SAM	SOLID	12/18/2024	0.60	35.0	78.50
P5299-02	SB-02	SAM	SOLID	12/18/2024	0.50	35.0	75.50
P5299-03	SB-01	SAM	SOLID	12/18/2024	0.59	35.0	68.80
P5299-04	SB-02	SAM	SOLID	12/18/2024	0.51	35.0	79.20
P5301-03DUP	HR-04-121624DUP	DUP	SOLID	12/18/2024	0.51	35.0	89.40
P5301-03MS	HR-04-121624MS	MS	SOLID	12/18/2024	0.55	35.0	89.40
P5301-03MSD	HR-04-121624MSD	MSD	SOLID	12/18/2024	0.56	35.0	89.40
PB165728BL	PB165728BL	MB	SOLID	12/18/2024	0.52	35.0	100.00
PB165728BS	PB165728BS	LCS	SOLID	12/18/2024	0.54	35.0	100.00

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133991

Review By	jaswal	Review On	12/18/2024 10:30:30 PM
Supervise By	mohan	Supervise On	12/18/2024 10:30:55 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83676,MP83677,MP83678,MP83679,MP83680,MP83681		
ICV Standard	MP83682		
CCV Standard	MP83684		
ICSA Standard			
CRI Standard	MP83686		
LCS Standard			
Chk Standard	MP83683,MP83685,MP83687,MP83689		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/18/24 13:19		Mohan	OK
2	S0.2	S0.2	CAL2	12/18/24 13:22		Mohan	OK
3	S2.5	S2.5	CAL3	12/18/24 13:24		Mohan	OK
4	S5	S5	CAL4	12/18/24 13:26		Mohan	OK
5	S7.5	S7.5	CAL5	12/18/24 13:28		Mohan	OK
6	S10	S10	CAL6	12/18/24 13:31		Mohan	OK
7	ICV24	ICV24	ICV	12/18/24 13:36		Mohan	OK
8	ICB24	ICB24	ICB	12/18/24 13:39		Mohan	OK
9	CCV42	CCV42	CCV	12/18/24 13:41		Mohan	OK
10	CCB42	CCB42	CCB	12/18/24 13:43		Mohan	OK
11	CRA	CRA	CRDL	12/18/24 13:45		Mohan	OK
12	HighStd	HighStd	HIGH STD	12/18/24 13:48		Mohan	OK
13	ChkStd	ChkStd	SAM	12/18/24 13:50		Mohan	OK
14	PB165728BL	PB165728BL	MB	12/18/24 13:52		Mohan	OK
15	PB165728BS	PB165728BS	LCS	12/18/24 13:55		Mohan	OK
16	P5299-01	SB-01	SAM	12/18/24 13:57		Mohan	OK
17	P5299-02	SB-02	SAM	12/18/24 13:59		Mohan	OK
18	P5299-03	SB-01	SAM	12/18/24 14:02		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133991

Review By	jaswal	Review On	12/18/2024 10:30:30 PM
Supervise By	mohan	Supervise On	12/18/2024 10:30:55 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83676,MP83677,MP83678,MP83679,MP83680,MP83681		
ICV Standard	MP83682		
CCV Standard	MP83684		
ICSA Standard			
CRI Standard	MP83686		
LCS Standard			
Chk Standard	MP83683,MP83685,MP83687,MP83689		

19	P5299-04	SB-02	SAM	12/18/24 14:04		Mohan	OK
20	P5301-01	HR-01-121624	SAM	12/18/24 14:06		Mohan	OK
21	CCV43	CCV43	CCV	12/18/24 14:08		Mohan	OK
22	CCB43	CCB43	CCB	12/18/24 14:11		Mohan	OK
23	P5301-03	HR-04-121624	SAM	12/18/24 14:13		Mohan	OK
24	P5301-03DUP	HR-04-121624DUP	DUP	12/18/24 14:25		Mohan	OK
25	P5301-03MS	HR-04-121624MS	MS	12/18/24 14:27		Mohan	OK
26	P5301-03MSD	HR-04-121624MSD	MSD	12/18/24 14:29		Mohan	OK
27	P5306-01	OU4-VSL-07-121224	SAM	12/18/24 14:32		Mohan	OK
28	P5306-03	OU4-VSL-08-121224	SAM	12/18/24 14:34		Mohan	OK
29	P5306-05	OU4-VSL-09-121224	SAM	12/18/24 14:36		Mohan	OK
30	P5306-07	OU4-VSL-10-121224	SAM	12/18/24 14:38		Mohan	OK
31	P5306-09	OU4-VSL-11-121224	SAM	12/18/24 14:41		Mohan	OK
32	P5306-11	OU4-VSL-12-121224	SAM	12/18/24 14:43		Mohan	OK
33	CCV44	CCV44	CCV	12/18/24 14:45		Mohan	OK
34	CCB44	CCB44	CCB	12/18/24 14:48		Mohan	OK
35	P5306-13	OU4-VSL-13-121224	SAM	12/18/24 14:50		Mohan	OK
36	P5306-15	OU4-VSL-14-121224	SAM	12/18/24 14:52		Mohan	OK
37	P5312-01	SOIL-VNJ-222	SAM	12/18/24 14:54		Mohan	OK
38	P5312-03	CONCRETE-VNJ-222	SAM	12/18/24 14:57		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133991

Review By	jaswal	Review On	12/18/2024 10:30:30 PM
Supervise By	mohan	Supervise On	12/18/2024 10:30:55 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83676,MP83677,MP83678,MP83679,MP83680,MP83681		
ICV Standard	MP83682		
CCV Standard	MP83684		
ICSA Standard			
CRI Standard	MP83686		
LCS Standard			
Chk Standard	MP83683,MP83685,MP83687,MP83689		

39	P5301-03L	HR-04-121624L	SD	12/18/24 15:03		Mohan	OK
40	P5301-03A	HR-04-121624A	PS	12/18/24 15:05		Mohan	OK
41	CCV45	CCV45	CCV	12/18/24 15:07		Mohan	OK
42	CCB45	CCB45	CCB	12/18/24 15:09		Mohan	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	Mohan	Supervise On	12/25/2024 1:47:33 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501		
ICV Standard	MP83508		
CCV Standard	MP83511		
ICSA Standard	MP83509,MP83510		
CRI Standard			
LCS Standard			
Chk Standard	MP83513,MP83514		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/20/24 15:41		Kareem	OK
2	S1	S1	CAL2	12/20/24 15:46		Kareem	OK
3	S2	S2	CAL3	12/20/24 15:50		Kareem	OK
4	S3	S3	CAL4	12/20/24 15:54		Kareem	OK
5	S4	S4	CAL5	12/20/24 15:58		Kareem	OK
6	S5	S5	CAL6	12/20/24 16:03		Kareem	OK
7	ICV01	ICV01	ICV	12/20/24 16:07	ICV fail for Ba,Mg,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	12/20/24 16:11		Kareem	OK
9	ICB01	ICB01	ICB	12/20/24 16:21		Kareem	OK
10	CRI01	CRI01	CRDL	12/20/24 16:26		Kareem	OK
11	ICSA01	ICSA01	ICSA	12/20/24 16:30		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	12/20/24 16:34		Kareem	OK
13	ICSADL	ICSADL	ICSA	12/20/24 16:38		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	12/20/24 16:43		Kareem	OK
15	CCV01	CCV01	CCV	12/20/24 16:47		Kareem	OK
16	CCB01	CCB01	CCB	12/20/24 16:51		Kareem	OK
17	P5312-01	SOIL-VNJ-222	SAM	12/20/24 16:55		Kareem	OK
18	P5343-01	VNJ210	SAM	12/20/24 17:00		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	Mohan	Supervise On	12/25/2024 1:47:33 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501		
ICV Standard	MP83508		
CCV Standard	MP83511		
ICSA Standard	MP83509,MP83510		
CRI Standard			
LCS Standard			
Chk Standard	MP83513,MP83514		

19	P5316-01	TT-304-IDWSO-2024	SAM	12/20/24 17:04		Kareem	OK
20	P5343-03	VNJ281	SAM	12/20/24 17:08		Kareem	OK
21	P5312-03	CONCRETE-VNJ-222	SAM	12/20/24 17:12		Kareem	OK
22	P5279-02	ROCKAWAY-PARK	SAM	12/20/24 17:16		Kareem	OK
23	P5192-02	EFF-WASTE WATER	SAM	12/20/24 17:21		Kareem	OK
24	P5327-01	12175-12176-12177-1	SAM	12/20/24 17:25		Kareem	OK
25	CCV02	CCV02	CCV	12/20/24 17:29		Kareem	OK
26	CCB02	CCB02	CCB	12/20/24 17:34		Kareem	OK
27	PB165738BL	PB165738BL	MB	12/20/24 17:38		Kareem	OK
28	PB165738BS	PB165738BS	LCS	12/20/24 17:42		Kareem	OK
29	PB165754BL	PB165754BL	MB	12/20/24 17:46		Kareem	OK
30	PB165754BS	PB165754BS	LCS	12/20/24 17:51		Kareem	OK
31	PB165720BL	PB165720BL	MB	12/20/24 17:55		Kareem	OK
32	PB165720BS	PB165720BS	LCS	12/20/24 17:59		Kareem	OK
33	PB165679TB	PB165679TB	MB	12/20/24 18:03		Kareem	OK
34	PB165680TB	PB165680TB	MB	12/20/24 18:08		Kareem	OK
35	CCV03	CCV03	CCV	12/20/24 18:12		Kareem	OK
36	CCB03	CCB03	CCB	12/20/24 18:16		Kareem	OK
37	P5341-01	STORMWATER-AQ-C	SAM	12/20/24 18:21		Kareem	OK
38	P5341-03RE	TOTE-425RE	SAM	12/20/24 18:25	NOT USE	Kareem	Not Ok

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	Mohan	Supervise On	12/25/2024 1:47:33 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501		
ICV Standard	MP83508		
CCV Standard	MP83511		
ICSA Standard	MP83509,MP83510		
CRI Standard			
LCS Standard			
Chk Standard	MP83513,MP83514		

39	P5343-06	PUMP-WATER-271	SAM	12/20/24 18:29		Kareem	OK
40	P5291-13RE	WC-20241213RE	SAM	12/20/24 18:33	NOT USE	Kareem	Not Ok
41	P5299-01	SB-01	SAM	12/20/24 18:38		Kareem	OK
42	P5327-01DUP	12175-12176-12177-1	DUP	12/20/24 18:42		Kareem	OK
43	P5327-01L	12175-12176-12177-1	SD	12/20/24 18:46		Kareem	OK
44	P5327-01MS	12175-12176-12177-1	MS	12/20/24 18:50		Kareem	OK
45	P5327-01MSD	12175-12176-12177-1	MSD	12/20/24 18:54		Kareem	OK
46	P5327-01A	12175-12176-12177-1	PS	12/20/24 18:58		Kareem	OK
47	CCV04	CCV04	CCV	12/20/24 19:02		Kareem	OK
48	CCB04	CCB04	CCB	12/20/24 19:11		Kareem	OK
49	P5343-06L	PUMP-WATER-271L	SD	12/20/24 19:16		Kareem	OK
50	P5343-06DUP	PUMP-WATER-271DUP	DUP	12/20/24 19:20		Kareem	OK
51	P5343-06MS	PUMP-WATER-271MS	MS	12/20/24 19:24		Kareem	OK
52	P5343-06MSD	PUMP-WATER-271MSD	MSD	12/20/24 19:28		Kareem	OK
53	P5343-06A	PUMP-WATER-271A	PS	12/20/24 19:32		Kareem	OK
54	P5291-13DUP	WC-20241213DUP	DUP	12/20/24 19:37		Kareem	OK
55	P5291-13L	WC-20241213L	SD	12/20/24 19:41		Kareem	OK
56	P5291-13MS	WC-20241213MS	MS	12/20/24 19:45		Kareem	OK
57	P5291-13MSD	WC-20241213MSD	MSD	12/20/24 19:49		Kareem	OK
58	P5291-13A	WC-20241213A	PS	12/20/24 19:53		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	Mohan	Supervise On	12/25/2024 1:47:33 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501		
ICV Standard	MP83508		
CCV Standard	MP83511		
ICSA Standard	MP83509,MP83510		
CRI Standard			
LCS Standard			
Chk Standard	MP83513,MP83514		

59	CCV05	CCV05	CCV	12/20/24 19:57		Kareem	OK
60	CCB05	CCB05	CCB	12/20/24 20:01		Kareem	OK
61	P5299-02	SB-02	SAM	12/20/24 20:06		Kareem	OK
62	P5299-03	SB-01	SAM	12/20/24 20:10		Kareem	OK
63	P5299-04	SB-02	SAM	12/20/24 20:14		Kareem	OK
64	P5299-04DUP	SB-02DUP	DUP	12/20/24 20:18		Kareem	OK
65	P5299-04L	SB-02L	SD	12/20/24 20:22		Kareem	OK
66	P5299-04MS	SB-02MS	MS	12/20/24 20:26		Kareem	OK
67	P5299-04MSD	SB-02MSD	MSD	12/20/24 20:30		Kareem	OK
68	P5299-04A	SB-02A	PS	12/20/24 20:34		Kareem	OK
69	PB165722BL	PB165722BL	MB	12/20/24 20:38		Kareem	OK
70	PB165722BS	PB165722BS	LCS	12/20/24 20:43		Kareem	OK
71	CCV06	CCV06	CCV	12/20/24 20:47		Kareem	OK
72	CCB06	CCB06	CCB	12/20/24 20:51		Kareem	OK
73	P5330-01	TP-5	SAM	12/20/24 20:55		Kareem	OK
74	P5342-01	CHRT26634	SAM	12/20/24 20:59		Kareem	OK
75	P5342-03	HT2651	SAM	12/20/24 21:04		Kareem	OK
76	P5342-05	RB21198	SAM	12/20/24 21:08		Kareem	OK
77	P5343-03DUP	VNJ281DUP	DUP	12/20/24 21:12		Kareem	OK
78	P5343-03L	VNJ281L	SD	12/20/24 21:16		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	Mohan	Supervise On	12/25/2024 1:47:33 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501		
ICV Standard	MP83508		
CCV Standard	MP83511		
ICSA Standard	MP83509,MP83510		
CRI Standard			
LCS Standard			
Chk Standard	MP83513,MP83514		

79	P5343-03MSD	VNJ281MSD	MSD	12/20/24 21:24		Kareem	OK
80	P5343-03A	VNJ281A	PS	12/20/24 21:28		Kareem	OK
81	PB165753BL	PB165753BL	MB	12/20/24 21:32		Kareem	OK
82	CCV07	CCV07	CCV	12/20/24 21:37		Kareem	OK
83	CCB07	CCB07	CCB	12/20/24 22:04		Kareem	OK
84	PB165753BS	PB165753BS	LCS	12/20/24 22:08		Kareem	OK
85	P5337-01	ETGI-357	SAM	12/20/24 22:12		Kareem	OK
86	P5339-01	TR-06-12182024	SAM	12/20/24 22:17		Kareem	OK
87	P5355-01	RBR251688	SAM	12/20/24 22:21	MS/MSD fail for more than parameters	Kareem	Not Ok
88	P5355-01DUP	RBR251688DUP	DUP	12/20/24 22:25	MS/MSD fail for more than parameters	Kareem	Not Ok
89	P5355-01L	RBR251688L	SD	12/20/24 22:29	MS/MSD fail for more than parameters	Kareem	Not Ok
90	P5355-01MS	RBR251688MS	MS	12/20/24 22:33	MS/MSD fail for more than parameters	Kareem	Not Ok
91	P5355-01MSD	RBR251688MSD	MSD	12/20/24 22:38	MS/MSD fail for more than parameters	Kareem	Not Ok
92	P5355-01A	RBR251688A	PS	12/20/24 22:42	MS/MSD fail for more than parameters	Kareem	Not Ok
93	PB165786BL	PB165786BL	MB	12/20/24 22:46		Kareem	OK
94	CCV08	CCV08	CCV	12/20/24 23:01		Kareem	OK
95	CCB08	CCB08	CCB	12/20/24 23:12		Kareem	OK
96	PB165786BS	PB165786BS	LCS	12/20/24 23:17		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	Mohan	Supervise On	12/25/2024 1:47:33 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501		
ICV Standard	MP83508		
CCV Standard	MP83511		
ICSA Standard	MP83509,MP83510		
CRI Standard			
LCS Standard			
Chk Standard	MP83513,MP83514		

97	P5341-03	TOTE-425	SAM	12/20/24 23:21		Kareem	OK
98	P5291-13	WC-20241213	SAM	12/20/24 23:25		Kareem	OK
99	LR1	LR1	HIGH STD	12/20/24 23:29		Kareem	OK
100	LR2	LR2	HIGH STD	12/20/24 23:41		Kareem	OK
101	P5343-03MS	VNJ281MS	MS	12/20/24 23:46		Kareem	OK
102	CCV09	CCV09	CCV	12/20/24 23:55		Kareem	OK
103	CCB09	CCB09	CCB	12/21/24 00:05		Kareem	OK

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pipette ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOC K #3 2. N/A

Start Digest Date: 12/18/2024 Time : 12:20 Temp : 96 °C

End Digest Date: 12/18/2024 Time : 14:25 Temp : 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. # 3

Dig Technician Signature: *SLK*

Supervisor Signature: *SG*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6000
LFS-2	1.00	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP83498
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
PTFE Boiling Stones	N/A	M5585
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#3 CELL #33 Temp: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/18/24 15:20	<i>SLK, met digestion</i>	<i>SG MetLab</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P5299-01	SB-01	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	22
P5299-02	SB-02	N/A	2.24	100	Brown	Yellow	Medium	N/A	N/A	23
P5299-03	SB-01	N/A	2.32	100	Brown	Yellow	Medium	N/A	N/A	24
P5299-04	SB-02	N/A	2.16	100	Brown	Yellow	Medium	N/A	N/A	25
P5299-04MS	SB-02MS	N/A	2.15	100	Brown	Yellow	Medium	N/A	M6000,M6009	27
P5299-04MSD	SB-02MSD	N/A	2.47	100	Brown	Yellow	Medium	N/A	M6000,M6009	28
P5299-04DUP	SB-02DUP	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	26
P5312-01	SOIL-VNJ-222	N/A	2.41	100	Brown	Yellow	Medium	N/A	N/A	29
P5312-03	CONCRETE-VNJ-222	N/A	2.31	100	Brown	Yellow	Medium	N/A	N/A	30
PB165722BL	PBS722	N/A	2.27	100	Colorless	Colorless	Fine	N/A	N/A	31
PB165722BS	LCS722	N/A	2.27	100	Colorless	Colorless	Fine	N/A	M6000,M6009	32

SOP ID : M7471B-Mercury-18

SDG No : N/A

Matrix : SOIL

Pipette ID : HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID : 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 12/18/2024 Time : 08:35 Temp : 94 °C

End Digest Date: 12/18/2024 Time : 09:05 Temp : 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 94°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP83682
CCV	30mL	MP83684
CRA	30mL	MP83686
Blank Spike	0.48mL	MP83675
Matrix Spike	0.48mL	MP83675

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP83688
KMnO4 (5%)	4.5mL	MP83208
Hydroxylamine HCL (12%)	2.0mL	MP83210
PTFE Boiling Stones	-----	M4583
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP83676
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83677
2.5 ppb	S2.5	30mL	MP83678
5.0 ppb	S5.0	30mL	MP83679
7.5 ppb	S7.5	30mL	MP83680
10.0 ppb	S10.0	30mL	MP83681
ICV	ICV	30mL	MP83682
ICB	ICB	30mL	MP83683
CCV	CCV	30mL	MP83684
CCB	CCB	30mL	MP83685
CRI	CRI	30mL	MP83686
CHK STD	CHK STD	30mL	MP83687

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/18/24 09:45	MS ~ N/A Lab	MS ~ metal only
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P5299-01	SB-01	0.60	35	NA	N/A	3-1
P5299-02	SB-02	0.50	35	NA	N/A	2
P5299-03	SB-01	0.59	35	NA	N/A	3
P5299-04	SB-02	0.51	35	NA	N/A	4
P5301-01	HR-01-121624	0.57	35	NA	N/A	5
P5301-03	HR-04-121624	0.52	35	NA	N/A	6
P5301-03DUP	HR-04-121624DUP	0.51	35	NA	N/A	7
P5301-03MS	HR-04-121624MS	0.55	35	NA	MP83675	8
P5301-03MSD	HR-04-121624MSD	0.56	35	NA	MP83675	9
P5306-01	OU4-VSL-07-121224	0.59	35	NA	N/A	10
P5306-03	OU4-VSL-08-121224	0.52	35	NA	N/A	11
P5306-05	OU4-VSL-09-121224	0.57	35	NA	N/A	12
P5306-07	OU4-VSL-10-121224	0.52	35	NA	N/A	13
P5306-09	OU4-VSL-11-121224	0.55	35	NA	N/A	14
P5306-11	OU4-VSL-12-121224	0.57	35	NA	N/A	15
P5306-13	OU4-VSL-13-121224	0.58	35	NA	N/A	16
P5306-15	OU4-VSL-14-121224	0.59	35	NA	N/A	17
P5312-01	SOIL-VNJ-222	0.55	35	NA	N/A	18
P5312-03	CONCRETE-VNJ-222	0.52	35	NA	N/A	19
PB165728BL	PBS728	0.52	35	NA	N/A	20
PB165728BS	LCS728	0.54	35	NA	MP83675	21