

ANALYTICAL RESULTS SUMMARY

GENERAL CHEMISTRY
METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : AMTRAK SAWTOOTH BRIDGES 2025

PORTAL PARTNERS TRI-VENTURE

c/o Gannett Fleming Inc. Transit and Rail System

207 Senate Avenue

Camp Hill, PA - 17011

Phone No: 610-650-8101

ORDER ID : Q2198

ATTENTION : Joseph Krupansky



Laboratory Certification ID # 20012



Hit Summary Sheet SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	B-202-SB02							
Q2198-01	B-202-SB02	SOIL	Acetone	14.2	J	4.10	21.6	ug/Kg
Q2198-01	B-202-SB02	SOIL	Carbon Disulfide	3.10	J	0.91	4.30	ug/Kg
Q2198-01	B-202-SB02	SOIL	Methylene Chloride	3.50	J	3.00	8.60	ug/Kg
			Total Voc :	20.8				
Q2198-01	B-202-SB02	SOIL	Benzene, 1,2,4,5-tetramethyl- *	39.3	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 1,2,3,5-tetramethyl- *	31.4	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 1-ethyl-2,4-dimethyl- *	35.9	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 1-ethyl-2,3-dimethyl- *	14.4	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	3-Phenylbut-1-ene *	12.2	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 2-ethyl-1,4-dimethyl- *	34.6	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 1,3-diethyl-5-methyl- *	14.6	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 2-ethyl-1,3-dimethyl- *	14.3	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 1-ethyl-4-(1-methylet *	21.1	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	1,4-Cyclohexadiene, 3-ethenyl- *	12.3	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	n-Butylbenzene *	2.20	J	1.30	4.30	ug/Kg
			Total Tics :	232				
			Total Concentration:	253				
Client ID:	B-207-SB02							
Q2198-03	B-207-SB02	SOIL	Acetone	71.8		9.30	49.3	ug/Kg
Q2198-03	B-207-SB02	SOIL	Carbon Disulfide	3.40	J	2.10	9.90	ug/Kg
Q2198-03	B-207-SB02	SOIL	2-Butanone	14.8	J	12.9	49.3	ug/Kg
			Total Voc :	90.0				
			Total Concentration:	90.0				
Client ID:	B-202-GW01							
Q2198-05	B-202-GW01	Water	Acetone	6.60		1.50	5.00	ug/L
Q2198-05	B-202-GW01	Water	Toluene	1.20		0.14	1.00	ug/L
Q2198-05	B-202-GW01	Water	m/p-Xylenes	2.00		0.24	2.00	ug/L
			Total Voc :	9.80				
Q2198-05	B-202-GW01	Water	Benzene, 1,2,4,5-tetramethyl- *	9.30	J	0	0	ug/L
Q2198-05	B-202-GW01	Water	Benzene, 1,2,3,4-tetramethyl- *	5.50	J	0	0	ug/L
Q2198-05	B-202-GW01	Water	o-Cymene *	5.60	J	0	0	ug/L
Q2198-05	B-202-GW01	Water	1-Phenyl-1-butene *	8.90	J	0	0	ug/L
Q2198-05	B-202-GW01	Water	Sulfur dioxide *	6.20	J	0	0	ug/L
Q2198-05	B-202-GW01	Water	1,2,4-Trimethylbenzene *	0.39	J	0.14	1.00	ug/L
			Total Tics :	35.9				
			Total Concentration:	45.7				

Hit Summary Sheet
SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Hit Summary Sheet
SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID:

0

Total Voc :

Total Concentration:

Hit Summary Sheet SW-846

SDG No.: Q2198
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-202-SB02								
Q2198-01	B-202-SB02	SOIL	Phenanthrene	170.000	J	29	240	ug/Kg
Q2198-01	B-202-SB02	SOIL	Fluoranthene	180.000	J	41.7	240	ug/Kg
Q2198-01	B-202-SB02	SOIL	Pyrene	130.000	J	50	240	ug/Kg
			Total Svoc :	480.00				
Q2198-01	B-202-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	300.000	AB	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzophenone *	430.000	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	n-Hexadecanoic acid *	140.000	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Trifluoroacetoxy hexadecane *	170.000	J	0	0	ug/Kg
			Total Tics :	1,040.00				
			Total Concentration:	1,520.00				
Client ID : B-207-SB02								
Q2198-03	B-207-SB02	SOIL	Phenanthrene	340.000		40	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Fluoranthene	400.000		57.4	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Pyrene	320.000	J	68.9	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Benzo(a)anthracene	140.000	J	44	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Chrysene	140.000	J	38.1	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Benzo(b)fluoranthene	160.000	J	36.4	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Benzo(a)pyrene	130.000	J	56.5	330	ug/Kg
			Total Svoc :	1,630.00				
Q2198-03	B-207-SB02	SOIL	1H-3a,7-Methanoazulene, 2,3,4,7, *	140.000	J	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	290.000	AB	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	2-Phenanthrenol, 4b,5,6,7,8,8a,9,1 *	460.000	J	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	4,4-Bis(tetrahydrothiopyran) *	490.000	J	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	n-Hexadecanoic acid *	330.000	J	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	Benzophenone *	640.000	J	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	Cyclohexadecane *	500.000	J	0	0	ug/Kg
			Total Tics :	2,850.00				
			Total Concentration:	4,480.00				
Client ID : B-202-GW01								
Q2198-05	B-202-GW01	WATER	1-Heneicosanol *	12.700	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl *	5.300	AB	0	0	ug/L
Q2198-05	B-202-GW01	WATER	2-Tridecanone *	7.400	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	Benzophenone *	7.000	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	Methanone, (1-hydroxycyclohexy *	2.100	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	n-Hexadecanoic acid *	12.900	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	Octadecanoic acid *	3.400	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	unknown17.404 *	2.400	J	0	0	ug/L



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Hit Summary Sheet
SW-846

SDG No.: Q2198
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Tics :		53.20			
		Total Concentration:		53.20			



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Hit Summary Sheet
SW-846

SDG No.: Q2198
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :				0.000				
Total Svoc :					0.00			
Total Concentration:					0.00			



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Hit Summary Sheet
SW-846

SDG No.: Q2198

Order ID: Q2198

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000



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Hit Summary Sheet
SW-846

SDG No.: Q2198

Order ID: Q2198

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000



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Hit Summary Sheet
SW-846

SDG No.: Q2198

Order ID: Q2198

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000

Hit Summary Sheet SW-846

SDG No.: Q2198

Order ID: Q2198

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-202-SB02								
Q2198-01	B-202-SB02	SOIL	Aluminum	5940		0.97	5.80	mg/Kg
Q2198-01	B-202-SB02	SOIL	Arsenic	4.98		0.22	1.16	mg/Kg
Q2198-01	B-202-SB02	SOIL	Barium	7.74		0.85	5.80	mg/Kg
Q2198-01	B-202-SB02	SOIL	Beryllium	0.25	J	0.029	0.35	mg/Kg
Q2198-01	B-202-SB02	SOIL	Cadmium	0.045	J	0.028	0.35	mg/Kg
Q2198-01	B-202-SB02	SOIL	Calcium	957		12.9	116	mg/Kg
Q2198-01	B-202-SB02	SOIL	Chromium	7.85		0.054	0.58	mg/Kg
Q2198-01	B-202-SB02	SOIL	Cobalt	1.60	J	0.12	1.74	mg/Kg
Q2198-01	B-202-SB02	SOIL	Copper	6.64		0.26	1.16	mg/Kg
Q2198-01	B-202-SB02	SOIL	Iron	6140		4.62	5.80	mg/Kg
Q2198-01	B-202-SB02	SOIL	Lead	8.55		0.15	0.70	mg/Kg
Q2198-01	B-202-SB02	SOIL	Magnesium	838		13.9	116	mg/Kg
Q2198-01	B-202-SB02	SOIL	Manganese	22.9		0.16	1.16	mg/Kg
Q2198-01	B-202-SB02	SOIL	Mercury	0.067		0.011	0.019	mg/Kg
Q2198-01	B-202-SB02	SOIL	Nickel	4.23		0.15	2.32	mg/Kg
Q2198-01	B-202-SB02	SOIL	Potassium	332		32.1	116	mg/Kg
Q2198-01	B-202-SB02	SOIL	Selenium	0.66	J	0.30	1.16	mg/Kg
Q2198-01	B-202-SB02	SOIL	Silver	0.29	J	0.14	0.58	mg/Kg
Q2198-01	B-202-SB02	SOIL	Sodium	259		20.6	116	mg/Kg
Q2198-01	B-202-SB02	SOIL	Vanadium	9.23		0.29	2.32	mg/Kg
Q2198-01	B-202-SB02	SOIL	Zinc	11.0		0.27	2.32	mg/Kg
Client ID : B-207-SB02								
Q2198-03	B-207-SB02	SOIL	Aluminum	7580		1.45	8.65	mg/Kg
Q2198-03	B-207-SB02	SOIL	Arsenic	7.70		0.33	1.73	mg/Kg
Q2198-03	B-207-SB02	SOIL	Barium	70.4		1.26	8.65	mg/Kg
Q2198-03	B-207-SB02	SOIL	Beryllium	0.55		0.043	0.52	mg/Kg
Q2198-03	B-207-SB02	SOIL	Cadmium	0.35	J	0.042	0.52	mg/Kg
Q2198-03	B-207-SB02	SOIL	Calcium	7810		19.2	173	mg/Kg
Q2198-03	B-207-SB02	SOIL	Chromium	27.8		0.081	0.87	mg/Kg
Q2198-03	B-207-SB02	SOIL	Cobalt	9.82		0.17	2.59	mg/Kg
Q2198-03	B-207-SB02	SOIL	Copper	56.1		0.38	1.73	mg/Kg
Q2198-03	B-207-SB02	SOIL	Iron	22200		6.90	8.65	mg/Kg
Q2198-03	B-207-SB02	SOIL	Lead	65.5		0.23	1.04	mg/Kg
Q2198-03	B-207-SB02	SOIL	Magnesium	5230		20.8	173	mg/Kg
Q2198-03	B-207-SB02	SOIL	Manganese	213		0.24	1.73	mg/Kg
Q2198-03	B-207-SB02	SOIL	Mercury	0.21		0.014	0.026	mg/Kg
Q2198-03	B-207-SB02	SOIL	Nickel	24.7		0.23	3.46	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2198

Order ID: Q2198

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2198-03	B-207-SB02	SOIL	Potassium	3720		47.9	173	mg/Kg
Q2198-03	B-207-SB02	SOIL	Selenium	0.93	J	0.45	1.73	mg/Kg
Q2198-03	B-207-SB02	SOIL	Silver	1.26		0.21	0.87	mg/Kg
Q2198-03	B-207-SB02	SOIL	Sodium	351		30.8	173	mg/Kg
Q2198-03	B-207-SB02	SOIL	Vanadium	27.1		0.43	3.46	mg/Kg
Q2198-03	B-207-SB02	SOIL	Zinc	132		0.40	3.46	mg/Kg
Client ID : B-202-GW01								
Q2198-05	B-202-GW01	Water	Aluminum	23100	D	28.4	250	ug/L
Q2198-05	B-202-GW01	Water	Barium	68.1	JD	36.4	250	ug/L
Q2198-05	B-202-GW01	Water	Calcium	33200	D	585	5000	ug/L
Q2198-05	B-202-GW01	Water	Chromium	59.5	D	5.30	25.0	ug/L
Q2198-05	B-202-GW01	Water	Cobalt	6.74	JD	5.65	75.0	ug/L
Q2198-05	B-202-GW01	Water	Copper	50.5	D	11.5	50.0	ug/L
Q2198-05	B-202-GW01	Water	Iron	26800	D	58.5	250	ug/L
Q2198-05	B-202-GW01	Water	Lead	79.0	D	5.75	30.0	ug/L
Q2198-05	B-202-GW01	Water	Magnesium	36300	D	610	5000	ug/L
Q2198-05	B-202-GW01	Water	Manganese	354	D	14.9	50.0	ug/L
Q2198-05	B-202-GW01	Water	Mercury	0.31		0.076	0.20	ug/L
Q2198-05	B-202-GW01	Water	Nickel	23.9	JD	7.65	100	ug/L
Q2198-05	B-202-GW01	Water	Potassium	30400	D	2300	5000	ug/L
Q2198-05	B-202-GW01	Water	Sodium	367000	D	2170	5000	ug/L
Q2198-05	B-202-GW01	Water	Vanadium	77.0	JD	15.7	100	ug/L
Q2198-05	B-202-GW01	Water	Zinc	149	D	41.7	100	ug/L



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Hit Summary Sheet
SW-846

SDG No.: Q2198

Order ID: Q2198

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-202-SB02								
Q2198-02	B-202-SB02	TCLP	Barium	1200		72.8	500	ug/L
Q2198-02	B-202-SB02	TCLP	Chromium	14.0	J	10.6	50.0	ug/L
Q2198-02	B-202-SB02	TCLP	Lead	21.5	J	11.5	60.0	ug/L
Client ID : B-207-SB02								
Q2198-04	B-207-SB02	TCLP	Barium	850		72.8	500	ug/L
Q2198-04	B-207-SB02	TCLP	Lead	55.7	J	11.5	60.0	ug/L