

ANALYTICAL RESULTS SUMMARY

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

PROJECT NAME : AMTRAK SAWTOOTH BRIDGES 2024

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 : P4397

ATTENTION : Joseph Krupansky



Laboratory Certification ID # 20012



Hit Summary Sheet SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	WB-301-TOP							
P4397-01	WB-301-TOP	SOIL	Acetone	120		7.90	31.6	ug/Kg
P4397-01	WB-301-TOP	SOIL	Carbon Disulfide	5.50	J	1.60	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	2-Butanone	36.3		7.20	31.6	ug/Kg
P4397-01	WB-301-TOP	SOIL	Methylcyclohexane	3.70	J	1.10	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	Ethyl Benzene	3.70	J	0.78	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	m/p-Xylenes	3.10	J	1.70	12.7	ug/Kg
P4397-01	WB-301-TOP	SOIL	o-Xylene	8.50		0.89	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	Isopropylbenzene	17.6		0.85	6.30	ug/Kg
			Total Voc :		198			
P4397-01	WB-301-TOP	SOIL	Benzene, 1,2,3,5-tetramethyl-	* 140	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	1H-Indene, 1-methyl-	* 83.6	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1-ethyl-2,3-dimethyl-	* 70.2	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 4-ethyl-1,2-dimethyl-	* 100	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	2-Methylindene	* 74.2	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1,1-(1,5-hexadiene-1,	* 130	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, (3-methyl-2-butenyl)-	* 130	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1-ethenyl-3-ethyl-	* 130	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	n-propylbenzene	* 3.40	J	0.81	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	1,3,5-Trimethylbenzene	* 10.5	J	0.81	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	1,2,4-Trimethylbenzene	* 33.0	J	1.70	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	sec-Butylbenzene	* 1.40	J	0.85	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	p-Isopropyltoluene	* 11.7	J	0.73	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	Diisopropyl ether	* 1.60	J	0.72	6.30	ug/Kg
			Total Tics :		920			
			Total Concentration:		1120			
Client ID:	WB-301-BOT							
P4397-02	WB-301-BOT	SOIL	Acetone	9.00	J	5.40	21.6	ug/Kg
P4397-02	WB-301-BOT	SOIL	Carbon Disulfide	2.10	J	1.10	4.30	ug/Kg
P4397-02	WB-301-BOT	SOIL	Methylene Chloride	6.10	J	2.90	8.60	ug/Kg
			Total Voc :		17.2			
P4397-02	WB-301-BOT	SOIL	Diisopropyl ether	* 1.30	J	0.49	4.30	ug/Kg
			Total Tics :		1.30			
			Total Concentration:		18.5			
Client ID:	WB-301-SW							
P4397-04	WB-301-SW	Water	Acetone	4.30	J	1.40	5.00	ug/L
P4397-04	WB-301-SW	Water	Methyl Acetate	0.74	J	0.60	1.00	ug/L

Hit Summary Sheet
SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: P4397-05	TB-10102024	Water	Total Voc :	5.04				
			Total Concentration:	5.04				
			Acetone	1.90	J	1.40	5.00	ug/L
			Total Voc :	1.90				
			Total Concentration:	1.90				



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Hit Summary Sheet
SW-846

SDG No.: P4397

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.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-301-TOP								
P4397-01	WB-301-TOP	SOIL	Naphthalene	1,400.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	2-Methylnaphthalene	1,200.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	1,1-Biphenyl	160.000	J	140	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Acenaphthylene	170.000	J	140	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Acenaphthene	1,300.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Fluorene	780.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene	2,500.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Anthracene	1,000.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Fluoranthene	1,300.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Pyrene	1,200.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(a)anthracene	870.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Chrysene	890.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(b)fluoranthene	580.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(k)fluoranthene	300.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(a)pyrene	760.000		150	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Indeno(1,2,3-cd)pyrene	160.000	J	120	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(g,h,i)perylene	190.000	J	130	270	ug/Kg
Total Svoc :				14,760.00				
P4397-01	WB-301-TOP	SOIL	.alpha.-Amyrone	*	470.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	1H-1,2,4-Triazol-5-amine, 3-brom	*	1,700.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	9H-Fluorene, 1-methyl-	*	430.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Anthracene, 2-methyl-	*	420.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1,1-(1,3-butadiyne-1,4-d	*	450.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzophenone	*	570.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Butane, 2-methoxy-2-methyl-	*	4,100.000	JB	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Cholestan-3-one	*	380.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Dibenzothiophene	*	420.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Fluoranthene, 2-methyl-	*	390.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 1,2-dimethyl-	*	420.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 2,3-dimethyl-	*	800.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 2,7-dimethyl-	*	520.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 2-ethyl-	*	580.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene, 1-methyl-	*	850.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene, 2,5-dimethyl-	*	550.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene, 2-methyl-	*	730.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	unknown10.839	*	380.000	J	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	unknown17.298	*	360.000	J	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4397-01	WB-301-TOP	SOIL	Indeno[2,1-a]indene, 5,10-dihydr	* 510.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	1-Methylnaphthalene	* 1,100.000	J	130	270	ug/Kg
Total Tics :				16,130.00				
Total Concentration:				30,890.00				
Client ID : WB-301-BOT								
P4397-02	WB-301-BOT	SOIL	Acenaphthene	140.000	J	110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Phenanthrene	330.000		110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Anthracene	110.000	J	110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Fluoranthene	150.000	J	110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Pyrene	130.000	J	110	220	ug/Kg
Total Svoc :				860.00				
P4397-02	WB-301-BOT	SOIL	2-Bromo dodecane	* 110.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	2-Pentanone, 4-hydroxy-4-methyl	* 270.000	AB	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Heptadecyl heptafluorobutyrate	* 160.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Hexadecane	* 91.600	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Methanone, (1-hydroxycyclohexy	* 96.900	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Naphthalene, 2,3-dimethyl-	* 110.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	n-Hexadecanoic acid	* 340.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Nonadecane	* 91.200	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	unknown12.022	* 150.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	unknown12.498	* 100.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Benzophenone	* 690.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Butane, 2-methoxy-2-methyl-	* 4,000.000	JB	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Cholestan-3-one	* 100.000	J	0	0	ug/Kg
Total Tics :				6,309.70				
Total Concentration:				7,169.70				
Client ID : WB-301-SW								
P4397-04	WB-301-SW	WATER	2-Pentanone, 4-hydroxy-4-methyl	* 2.600	AB	0	0	ug/L
P4397-04	WB-301-SW	WATER	Benzophenone	* 2.600	J	0	0	ug/L
P4397-04	WB-301-SW	WATER	Butane, 2-methoxy-2-methyl-	* 220.000	JB	0	0	ug/L
P4397-04	WB-301-SW	WATER	n-Hexadecanoic acid	* 2.100	J	0	0	ug/L
Total Tics :				227.30				
Total Concentration:				227.30				



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Hit Summary Sheet
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SDG No.: P4397
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
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SDG No.: P4397

Order ID: P4397

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

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
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SDG No.: P4397

Order ID: P4397

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

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
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SDG No.: P4397

Order ID: P4397

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

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.: P4397

Order ID: P4397

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-301-TOP								
P4397-01	WB-301-TOP	SOIL	Aluminum	8890		3.51	7.28	mg/Kg
P4397-01	WB-301-TOP	SOIL	Antimony	1.21	J	0.22	3.64	mg/Kg
P4397-01	WB-301-TOP	SOIL	Arsenic	46.6		0.42	1.46	mg/Kg
P4397-01	WB-301-TOP	SOIL	Barium	137		0.93	7.28	mg/Kg
P4397-01	WB-301-TOP	SOIL	Beryllium	1.33		0.017	0.44	mg/Kg
P4397-01	WB-301-TOP	SOIL	Cadmium	3.38		0.023	0.44	mg/Kg
P4397-01	WB-301-TOP	SOIL	Calcium	2410		4.08	146	mg/Kg
P4397-01	WB-301-TOP	SOIL	Chromium	193	D	0.39	3.64	mg/Kg
P4397-01	WB-301-TOP	SOIL	Cobalt	9.09		0.084	2.18	mg/Kg
P4397-01	WB-301-TOP	SOIL	Copper	351		0.68	1.46	mg/Kg
P4397-01	WB-301-TOP	SOIL	Iron	19400		3.92	7.28	mg/Kg
P4397-01	WB-301-TOP	SOIL	Lead	329		0.22	0.87	mg/Kg
P4397-01	WB-301-TOP	SOIL	Magnesium	4210		4.99	146	mg/Kg
P4397-01	WB-301-TOP	SOIL	Manganese	199		0.10	1.46	mg/Kg
P4397-01	WB-301-TOP	SOIL	Mercury	5.60	D	0.082	0.18	mg/Kg
P4397-01	WB-301-TOP	SOIL	Nickel	42.1		0.13	2.91	mg/Kg
P4397-01	WB-301-TOP	SOIL	Potassium	1370		41.8	146	mg/Kg
P4397-01	WB-301-TOP	SOIL	Silver	2.11		0.076	0.73	mg/Kg
P4397-01	WB-301-TOP	SOIL	Sodium	2460		52.6	146	mg/Kg
P4397-01	WB-301-TOP	SOIL	Vanadium	25.9		0.39	2.91	mg/Kg
P4397-01	WB-301-TOP	SOIL	Zinc	429		0.16	2.91	mg/Kg
Client ID : WB-301-BOT								
P4397-02	WB-301-BOT	SOIL	Aluminum	5800		2.95	6.12	mg/Kg
P4397-02	WB-301-BOT	SOIL	Arsenic	4.48		0.36	1.22	mg/Kg
P4397-02	WB-301-BOT	SOIL	Barium	74.0		0.78	6.12	mg/Kg
P4397-02	WB-301-BOT	SOIL	Beryllium	0.92		0.015	0.37	mg/Kg
P4397-02	WB-301-BOT	SOIL	Cadmium	1.36		0.020	0.37	mg/Kg
P4397-02	WB-301-BOT	SOIL	Calcium	753		3.43	122	mg/Kg
P4397-02	WB-301-BOT	SOIL	Chromium	23.4		0.066	0.61	mg/Kg
P4397-02	WB-301-BOT	SOIL	Cobalt	6.78		0.071	1.84	mg/Kg
P4397-02	WB-301-BOT	SOIL	Copper	38.9		0.57	1.22	mg/Kg
P4397-02	WB-301-BOT	SOIL	Iron	13400		3.29	6.12	mg/Kg
P4397-02	WB-301-BOT	SOIL	Lead	31.3		0.18	0.73	mg/Kg
P4397-02	WB-301-BOT	SOIL	Magnesium	3250		4.20	122	mg/Kg
P4397-02	WB-301-BOT	SOIL	Manganese	108		0.087	1.22	mg/Kg
P4397-02	WB-301-BOT	SOIL	Mercury	0.035		0.0080	0.017	mg/Kg
P4397-02	WB-301-BOT	SOIL	Nickel	16.9		0.11	2.45	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P4397

Order ID: P4397

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4397-02	WB-301-BOT	SOIL	Potassium	1200		35.1	122	mg/Kg
P4397-02	WB-301-BOT	SOIL	Silver	0.073	J	0.064	0.61	mg/Kg
P4397-02	WB-301-BOT	SOIL	Sodium	800		44.2	122	mg/Kg
P4397-02	WB-301-BOT	SOIL	Vanadium	16.1		0.33	2.45	mg/Kg
P4397-02	WB-301-BOT	SOIL	Zinc	59.8		0.14	2.45	mg/Kg
Client ID : WB-301-SW								
P4397-04	WB-301-SW	Water	Aluminum	80.2		28.3	50.0	ug/L
P4397-04	WB-301-SW	Water	Barium	51.6		6.28	50.0	ug/L
P4397-04	WB-301-SW	Water	Cadmium	0.11	J	0.094	3.00	ug/L
P4397-04	WB-301-SW	Water	Calcium	144000		33.0	1000	ug/L
P4397-04	WB-301-SW	Water	Chromium	10.5		0.66	5.00	ug/L
P4397-04	WB-301-SW	Water	Iron	289		18.5	50.0	ug/L
P4397-04	WB-301-SW	Water	Magnesium	365000		39.4	1000	ug/L
P4397-04	WB-301-SW	Water	Manganese	54.9		1.46	10.0	ug/L
P4397-04	WB-301-SW	Water	Mercury	0.099	J	0.081	0.20	ug/L
P4397-04	WB-301-SW	Water	Nickel	4.19	J	0.85	20.0	ug/L
P4397-04	WB-301-SW	Water	Potassium	225000		685	1000	ug/L
P4397-04	WB-301-SW	Water	Sodium	3550000	D	2370	10000	ug/L
P4397-04	WB-301-SW	Water	Vanadium	4.43	J	3.06	20.0	ug/L
P4397-04	WB-301-SW	Water	Zinc	12.3	J	1.75	20.0	ug/L



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Hit Summary Sheet
SW-846

SDG No.: P4397

Order ID: P4397

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-301-BOT								
P4397-06	WB-301-BOT	TCLP	Arsenic	275		34.8	100	ug/L
P4397-06	WB-301-BOT	TCLP	Barium	335	J	62.8	500	ug/L
P4397-06	WB-301-BOT	TCLP	Cadmium	1.32	J	0.94	30.0	ug/L
P4397-06	WB-301-BOT	TCLP	Chromium	491		6.60	50.0	ug/L
P4397-06	WB-301-BOT	TCLP	Lead	43.0	J	35.1	60.0	ug/L