

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 : P4460

ATTENTION : Joseph Krupansky



Laboratory Certification ID # 20012



Hit Summary Sheet
SW-846

SDG No.: P4460
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	WB-303-TOP							
P4460-02	WB-303-TOP	SOIL	Acetone	110		10.7	42.7	ug/Kg
P4460-02	WB-303-TOP	SOIL	Carbon Disulfide	3.40	J	2.20	8.50	ug/Kg
P4460-02	WB-303-TOP	SOIL	2-Butanone	35.4	J	9.70	42.7	ug/Kg
P4460-02	WB-303-TOP	SOIL	Methylcyclohexane	2.40	J	1.50	8.50	ug/Kg
P4460-02	WB-303-TOP	SOIL	o-Xylene	2.10	J	1.20	8.50	ug/Kg
P4460-02	WB-303-TOP	SOIL	Isopropylbenzene	4.60	J	1.10	8.50	ug/Kg
			Total Voc :		158			
P4460-02	WB-303-TOP	SOIL	Indane	* 18.8	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	Benzene, 1-ethyl-2-methyl-	* 14.4	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	1,4-Dihydronaphthalene	* 11.5	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	Benzene, 1-methyl-2-(2-propen	* 20.5	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	1-Methyl-2-phenylcyclopropan	* 14.6	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	11H-Dibenzo[b,e][1,4]diazepin	* 33.7	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	Benzene, (2-methyl-1-butenyl)-	* 10.3	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	1,2,4-Trimethylbenzene	* 7.60	J	2.30	8.50	ug/Kg
P4460-02	WB-303-TOP	SOIL	Diisopropyl ether	* 4.70	J	0.97	8.50	ug/Kg
P4460-02	WB-303-TOP	SOIL	1,4-Dioxane	* 190	J	72.6	170	ug/Kg
			Total Tics :		326			
			Total Concentration:		484			
Client ID:	WB-303-BOT							
P4460-03	WB-303-BOT	SOIL	Acetone	10.3	J	4.90	19.7	ug/Kg
P4460-03	WB-303-BOT	SOIL	Methylene Chloride	2.70	J	2.70	7.90	ug/Kg
			Total Voc :		13.0			
P4460-03	WB-303-BOT	SOIL	Diisopropyl ether	* 1.70	J	0.45	3.90	ug/Kg
P4460-03	WB-303-BOT	SOIL	1,4-Dioxane	* 59.5	J	33.5	78.7	ug/Kg
			Total Tics :		61.2			
			Total Concentration:		74.2			



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SDG No.: P4460

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.: P4460

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-303-TOP								
P4460-02	WB-303-TOP	SOIL	Fluoranthene	210.000	J	160	330	ug/Kg
P4460-02	WB-303-TOP	SOIL	Pyrene	290.000	J	160	330	ug/Kg
P4460-02	WB-303-TOP	SOIL	Benzo(a)anthracene	190.000	J	160	330	ug/Kg
P4460-02	WB-303-TOP	SOIL	Chrysene	160.000	J	150	330	ug/Kg
P4460-02	WB-303-TOP	SOIL	Benzo(a)pyrene	180.000	J	180	330	ug/Kg
Total Svoc :				1,030.00				
P4460-02	WB-303-TOP	SOIL	Hop-22(29)-en-3.beta.-ol	*	330.000	J	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	n-Hexadecanoic acid	*	380.000	J	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	.alpha.-Amyrone	*	760.000	J	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	1-Pentadecanethiol	*	140.000	J	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	2H-Cyclopropa[a]naphthalen-2-or	*	140.000	J	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	300.000	AB	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	unknown12.021	*	270.000	J	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	unknown17.286	*	180.000	J	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	Benzophenone	*	270.000	J	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	Butane, 2-methoxy-2-methyl-	*	4,000.000	JB	0	ug/Kg
Total Tics :				6,770.00				
Total Concentration:				7,800.00				
Client ID : WB-303-BOT								
P4460-03	WB-303-BOT	SOIL	Naphthalene	210.000		100	210	ug/Kg
Total Svoc :				210.00				
P4460-03	WB-303-BOT	SOIL	Nonadecane	*	1,000.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Nonane, 2,6-dimethyl-	*	920.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Pentadecane, 2,6,10-trimethyl-	*	350.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Tetradecane, 3-methyl-	*	330.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Tetratetracontane	*	470.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Tridecane	*	1,200.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Undecane	*	440.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Undecane, 2,6-dimethyl-	*	370.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	1-Docosene	*	530.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	310.000	AB	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	3-Ethyl-2,6,10-trimethylundecane	*	1,900.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Benzene, 2-ethenyl-1,4-dimethyl-	*	360.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Butane, 2-methoxy-2-methyl-	*	3,800.000	JB	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Decane, 3,8-dimethyl-	*	590.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Decane, 5-ethyl-5-methyl-	*	680.000	J	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Dodecane, 2,6,11-trimethyl-	*	490.000	J	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4460-03	WB-303-BOT	SOIL	Heptacosane	* 710.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Heptadecane	* 2,700.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Hexadecane	* 3,900.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Hexadecane, 7-methyl-	* 500.000	J	0	0	ug/Kg
Total Tics :				21,550.00				
Total Concentration:				21,760.00				
Client ID : WB-303-SW								
P4460-06	WB-303-SW	WATER	2-Pentanone, 4-hydroxy-4-methyl *	3.500	A	0	0	ug/L
P4460-06	WB-303-SW	WATER	Benzophenone *	3.400	J	0	0	ug/L
Total Tics :				6.90				
Total Concentration:				6.90				



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Hit Summary Sheet
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SDG No.: P4460
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.: P4460

Order ID: P4460

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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SDG No.: P4460

Order ID: P4460

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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SDG No.: P4460

Order ID: P4460

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.: P4460

Order ID: P4460

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-303-TOP								
P4460-02	WB-303-TOP	SOIL	Aluminum	8830	J	4.23	8.79	mg/Kg
P4460-02	WB-303-TOP	SOIL	Antimony	2.35		0.26	4.39	mg/Kg
P4460-02	WB-303-TOP	SOIL	Arsenic	68.3		0.51	1.76	mg/Kg
P4460-02	WB-303-TOP	SOIL	Barium	124		1.12	8.79	mg/Kg
P4460-02	WB-303-TOP	SOIL	Beryllium	0.72		0.021	0.53	mg/Kg
P4460-02	WB-303-TOP	SOIL	Cadmium	3.74		0.028	0.53	mg/Kg
P4460-02	WB-303-TOP	SOIL	Calcium	2300		4.92	176	mg/Kg
P4460-02	WB-303-TOP	SOIL	Chromium	145		0.095	0.88	mg/Kg
P4460-02	WB-303-TOP	SOIL	Cobalt	10.1		0.10	2.64	mg/Kg
P4460-02	WB-303-TOP	SOIL	Copper	341		0.83	1.76	mg/Kg
P4460-02	WB-303-TOP	SOIL	Iron	21900	D	4.73	8.79	mg/Kg
P4460-02	WB-303-TOP	SOIL	Lead	306		0.26	1.05	mg/Kg
P4460-02	WB-303-TOP	SOIL	Magnesium	3900		6.03	176	mg/Kg
P4460-02	WB-303-TOP	SOIL	Manganese	189		0.13	1.76	mg/Kg
P4460-02	WB-303-TOP	SOIL	Mercury	7.60		0.12	0.27	mg/Kg
P4460-02	WB-303-TOP	SOIL	Nickel	43.2		0.16	3.51	mg/Kg
P4460-02	WB-303-TOP	SOIL	Potassium	1590		50.4	176	mg/Kg
P4460-02	WB-303-TOP	SOIL	Silver	2.29		0.091	0.88	mg/Kg
P4460-02	WB-303-TOP	SOIL	Sodium	2500		63.4	176	mg/Kg
P4460-02	WB-303-TOP	SOIL	Vanadium	24.0		0.47	3.51	mg/Kg
P4460-02	WB-303-TOP	SOIL	Zinc	417	0.19	3.51	mg/Kg	
Client ID : WB-303-BOT								
P4460-03	WB-303-BOT	SOIL	Aluminum	7450		2.92	6.06	mg/Kg
P4460-03	WB-303-BOT	SOIL	Arsenic	1.46		0.35	1.21	mg/Kg
P4460-03	WB-303-BOT	SOIL	Barium	26.9		0.78	6.06	mg/Kg
P4460-03	WB-303-BOT	SOIL	Beryllium	0.68		0.015	0.36	mg/Kg
P4460-03	WB-303-BOT	SOIL	Cadmium	2.27		0.019	0.36	mg/Kg
P4460-03	WB-303-BOT	SOIL	Calcium	2810		3.39	121	mg/Kg
P4460-03	WB-303-BOT	SOIL	Chromium	14.6		0.065	0.61	mg/Kg
P4460-03	WB-303-BOT	SOIL	Cobalt	10.5		0.070	1.82	mg/Kg
P4460-03	WB-303-BOT	SOIL	Copper	16.5		0.57	1.21	mg/Kg
P4460-03	WB-303-BOT	SOIL	Iron	18500		3.26	6.06	mg/Kg
P4460-03	WB-303-BOT	SOIL	Lead	9.67		0.18	0.73	mg/Kg
P4460-03	WB-303-BOT	SOIL	Magnesium	4680		4.16	121	mg/Kg
P4460-03	WB-303-BOT	SOIL	Manganese	273		0.086	1.21	mg/Kg
P4460-03	WB-303-BOT	SOIL	Nickel	19.8		0.11	2.42	mg/Kg
P4460-03	WB-303-BOT	SOIL	Potassium	1320		34.8	121	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P4460

Order ID: P4460

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4460-03	WB-303-BOT	SOIL	Sodium	1020		43.8	121	mg/Kg
P4460-03	WB-303-BOT	SOIL	Vanadium	18.2		0.33	2.42	mg/Kg
P4460-03	WB-303-BOT	SOIL	Zinc	40.5		0.13	2.42	mg/Kg
Client ID : WB-303-SW								
P4460-06	WB-303-SW	Water	Aluminum	426		28.3	50.0	ug/L
P4460-06	WB-303-SW	Water	Antimony	3.58	J	2.06	25.0	ug/L
P4460-06	WB-303-SW	Water	Barium	28.9	J	6.28	50.0	ug/L
P4460-06	WB-303-SW	Water	Calcium	201000		33.0	1000	ug/L
P4460-06	WB-303-SW	Water	Chromium	2.34	J	0.66	5.00	ug/L
P4460-06	WB-303-SW	Water	Iron	574		18.5	50.0	ug/L
P4460-06	WB-303-SW	Water	Magnesium	704000		39.4	1000	ug/L
P4460-06	WB-303-SW	Water	Manganese	68.4		1.46	10.0	ug/L
P4460-06	WB-303-SW	Water	Nickel	1.58	J	0.85	20.0	ug/L
P4460-06	WB-303-SW	Water	Potassium	468000		685	1000	ug/L
P4460-06	WB-303-SW	Water	Sodium	6160000	D	5930	25000	ug/L
P4460-06	WB-303-SW	Water	Zinc	19.8	J	1.75	20.0	ug/L



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SDG No.: P4460

Order ID: P4460

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-303-BOT								
P4460-04	WB-303-BOT	TCLP	Barium	360	J	62.8	500	ug/L
P4460-04	WB-303-BOT	TCLP	Chromium	10.6	J	6.60	50.0	ug/L
P4460-04	WB-303-BOT	TCLP	Lead	45.4	J	35.1	60.0	ug/L