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

LAB CHRONICLE

OrderID:	Q1207	**OrderDate:**	1/28/2025 11:40:00 AM
Client:	RU2 Engineering, LLC	**Project:**	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	**Location:**	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1207-03	**JPP-2.1-012725**	**SOIL**			**01/27/25**			**01/28/25**
			SVOC-TCL BNA -20	8270E		01/29/25	02/05/25	
Q1207-04	**JPP-2.1-012725**	**TCLP**			**01/27/25**			**01/28/25**
			TCLP BNA	8270E		01/29/25	02/05/25	
Q1207-07	**JPP-5.1-012725**	**SOIL**			**01/27/25**			**01/28/25**
			SVOC-TCL BNA -20	8270E		01/29/25	02/05/25	
Q1207-08	**JPP-5.1-012725**	**TCLP**			**01/27/25**			**01/28/25**
			TCLP BNA	8270E		01/29/25	02/05/25	
Q1207-11	**JPP-4.5-012725**	**SOIL**			**01/27/25**			**01/28/25**
			SVOC-TCL BNA -20	8270E		01/29/25	02/05/25	
Q1207-12	**JPP-4.5-012725**	**TCLP**			**01/27/25**			**01/28/25**
			TCLP BNA	8270E		01/29/25	02/05/25	
Q1207-15	**JPP-16.2-012725**	**SOIL**			**01/27/25**			**01/28/25**
			SVOC-TCL BNA -20	8270E		01/29/25	02/05/25	
Q1207-16	**JPP-16.2-012725**	**TCLP**			**01/27/25**			**01/28/25**
			TCLP BNA	8270E		01/29/25	02/05/25	
Q1207-19	**JPP-20.2-012725**	**SOIL**			**01/27/25**			**01/28/25**
			SVOC-TCL BNA -20	8270E		01/29/25	02/05/25	
Q1207-20	**JPP-20.2-012725**	**TCLP**			**01/27/25**			**01/28/25**
			TCLP BNA	8270E		01/29/25	02/05/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**JPP-2.1-012725**								
Q1207-03	JPP-2.1-012725	SOIL	Phenanthrene		850.000		95.7	190	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Anthracene		240.000		96.2	190	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Fluoranthene		1,800.000		93.1	190	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Pyrene		1,000.000		94.6	190	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Benzo(a)anthracene		790.000		92	190	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Chrysene		670.000		90.6	190	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Benzo(b)fluoranthene		840.000		92.4	190	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Benzo(k)fluoranthene		320.000		94.1	190	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Benzo(a)pyrene		660.000		110	190	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Indeno(1,2,3-cd)pyrene		220.000		89	190	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Benzo(g,h,i)perylene		230.000		91.3	190	ug/Kg
			Total Svoc :		**7,620.00**				
Q1207-03	JPP-2.1-012725	SOIL	11H-Benzo[a]fluorene	*	79.400	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	11H-Benzo[b]fluorene	*	190.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	1H-Cyclopropa[l]phenanthrene,1a	*	140.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	4H-Cyclopenta[def]phenanthrene	*	450.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Anthracene, 2-methyl-	*	190.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Cyclopenta(def)phenanthrenone	*	130.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Dehydrochamazulene	*	120.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Benzo[e]pyrene	*	420.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Benzophenone	*	380.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Naphthalene, 1-phenyl-	*	100.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Naphthalene, 2-phenyl-	*	180.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Pyrene, 1-methyl-	*	110.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Pyrene, 2-methyl-	*	110.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Phenanthrene, 2,5-dimethyl-	*	140.000	J	0	0	ug/Kg
Q1207-03	JPP-2.1-012725	SOIL	Phenanthrene, 2-methyl-	*	420.000	J	0	0	ug/Kg
			Total Tics :		**3,159.40**				
			Total Concentration:		**10,779.40**				
Client ID :	**JPP-5.1-012725**								
Q1207-07	JPP-5.1-012725	SOIL	Phenanthrene		720.000		92.4	190	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Anthracene		230.000		92.8	190	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Fluoranthene		1,100.000		89.8	190	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Pyrene		770.000		91.3	190	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Benzo(a)anthracene		460.000		88.7	190	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Chrysene		360.000		87.4	190	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Benzo(b)fluoranthene		510.000		89.2	190	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1207-07	JPP-5.1-012725	SOIL	Benzo(k)fluoranthene		230.000		90.8	190	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Benzo(a)pyrene		470.000		100	190	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Indeno(1,2,3-cd)pyrene		220.000		85.9	190	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Benzo(g,h,i)perylene		240.000		88.1	190	ug/Kg
			Total Svoc :		**5,310.00**				
Q1207-07	JPP-5.1-012725	SOIL	2,6-Bis(chloromethyl)-4-methylph	*	75.500	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	4b,8-Dimethyl-2-isopropylphenan	*	120.000	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	4H-Cyclopenta[def]phenanthrene	*	250.000	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Anthracene, 1-methyl-	*	82.500	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Benzophenone	*	260.000	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Dibenzothiophene	*	86.900	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Heptadecane	*	130.000	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Hexadecane	*	130.000	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Octacosane	*	130.000	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Phenanthrene, 1-methyl-	*	170.000	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Retene	*	200.000	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Tetradecane	*	140.000	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	Tridecane	*	180.000	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	unknown11.610	*	87.600	J	0	0	ug/Kg
Q1207-07	JPP-5.1-012725	SOIL	unknown12.410	*	120.000	J	0	0	ug/Kg
			Total Tics :		**2,162.50**				
			Total Concentration:		**7,472.50**				
Client ID :	**JPP-4.5-012725**								
Q1207-11	JPP-4.5-012725	SOIL	Acenaphthene		110.000	J	99.3	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Fluorene		110.000	J	100	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Phenanthrene		1,000.000		100	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Anthracene		350.000		100	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Fluoranthene		1,600.000		100	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Pyrene		990.000		100	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Benzo(a)anthracene		600.000		98.8	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Chrysene		500.000		97.3	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Bis(2-ethylhexyl)phthalate		110.000	J	110	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Benzo(b)fluoranthene		640.000		99.3	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Benzo(k)fluoranthene		330.000		100	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Benzo(a)pyrene		580.000		110	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Indeno(1,2,3-cd)pyrene		250.000		95.6	210	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Benzo(g,h,i)perylene		320.000		98.1	210	ug/Kg
			Total Svoc :		**7,490.00**				
Q1207-11	JPP-4.5-012725	SOIL	2-Ethylhexyl mercaptoacetate	*	330.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	3-Ethyl-2,6,10-trimethylundecane	*	300.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1207-11	JPP-4.5-012725	SOIL	4b,8-Dimethyl-2-isopropylphenan	*	320.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	4H-Cyclopenta[def]phenanthrene	*	580.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	(1S,4aS,4bS,7S,8aS,10aS)-7-Isopı	*	370.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Anthracene, 2-methyl-	*	460.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Benzophenone	*	300.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Cyclopentanone, 2-methyl-	*	430.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Dodecane, 1-iodo-	*	230.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Dodecane, 2,7,10-trimethyl-	*	200.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Eicosane	*	210.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Heptadecane	*	170.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Hexadecane	*	270.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Hexadecane, 3-methyl-	*	770.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Retene	*	2,000.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Tetradecane	*	300.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Tridecane	*	210.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	unknown6.857	*	180.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Naphthalene, 6-ethyl-1,2,3,4-tetra	*	2,300.000	J	0	0	ug/Kg
Q1207-11	JPP-4.5-012725	SOIL	Nonadecane	*	310.000	J	0	0	ug/Kg
			Total Tics :		**10,240.00**				
			Total Concentration:		**17,730.00**				
Client ID :	**JPP-16.2-012725**								
Q1207-15	JPP-16.2-012725	SOIL	Phenanthrene		620.000		190	380	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Anthracene		190.000	J	190	380	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Fluoranthene		1,200.000		180	380	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Pyrene		920.000		190	380	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Benzo(a)anthracene		570.000		180	380	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Chrysene		440.000		180	380	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Benzo(b)fluoranthene		610.000		180	380	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Benzo(k)fluoranthene		320.000	J	190	380	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Benzo(a)pyrene		590.000		210	380	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Indeno(1,2,3-cd)pyrene		260.000	J	180	380	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Benzo(g,h,i)perylene		310.000	J	180	380	ug/Kg
			Total Svoc :		**6,030.00**				
Q1207-15	JPP-16.2-012725	SOIL	4b,8-Dimethyl-2-isopropylphenan	*	160.000	J	0	0	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	4H-Cyclopenta[def]phenanthrene	*	280.000	J	0	0	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Benzophenone	*	460.000	J	0	0	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Hexadecane	*	180.000	J	0	0	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	n-Hexadecanoic acid	*	440.000	J	0	0	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Nonadecane	*	240.000	J	0	0	ug/Kg
Q1207-15	JPP-16.2-012725	SOIL	Retene	*	330.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1207-15	JPP-16.2-012725	SOIL	Tridecane	*	160.000	J	0	0	ug/Kg
			Total Tics :		**2,250.00**				
			Total Concentration:		**8,280.00**				
Client ID :	**JPP-20.2-012725**								
Q1207-19	JPP-20.2-012725	SOIL	Phenanthrene		550.000		95.5	190	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Anthracene		120.000	J	96	190	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Fluoranthene		770.000		92.9	190	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Pyrene		500.000		94.4	190	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Benzo(a)anthracene		340.000		91.8	190	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Chrysene		320.000		90.4	190	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Benzo(b)fluoranthene		390.000		92.2	190	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Benzo(k)fluoranthene		200.000		93.9	190	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Benzo(a)pyrene		370.000		110	190	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Indeno(1,2,3-cd)pyrene		120.000	J	88.8	190	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Benzo(g,h,i)perylene		150.000	J	91.1	190	ug/Kg
			Total Svoc :		**3,830.00**				
Q1207-19	JPP-20.2-012725	SOIL	Phenanthrene, 1-methyl-	*	130.000	J	0	0	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	.beta.-iso-Methyl ionone	*	160.000	J	0	0	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	4H-Cyclopenta[def]phenanthrene	*	150.000	J	0	0	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Benzo[e]pyrene	*	250.000	J	0	0	ug/Kg
Q1207-19	JPP-20.2-012725	SOIL	Benzophenone	*	140.000	J	0	0	ug/Kg
			Total Tics :		**830.00**				
			Total Concentration:		**4,660.00**				

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-2.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141462.D	1	01/29/25 08:40	02/05/25 21:57	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	380	U	210	380	ug/Kg
108-95-2	Phenol	190	U	94.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	190	U	95.4	190	ug/Kg
95-57-8	2-Chlorophenol	190	U	95.2	190	ug/Kg
95-48-7	2-Methylphenol	190	U	91.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	190	U	100	190	ug/Kg
98-86-2	Acetophenone	190	U	99.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	380	U	90.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	91.2	U	45.9	91.2	ug/Kg
67-72-1	Hexachloroethane	190	U	94.6	190	ug/Kg
98-95-3	Nitrobenzene	190	U	100	190	ug/Kg
78-59-1	Isophorone	190	U	96.4	190	ug/Kg
88-75-5	2-Nitrophenol	190	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	190	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	U	97.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	190	U	86.0	190	ug/Kg
91-20-3	Naphthalene	190	U	94.1	190	ug/Kg
106-47-8	4-Chloroaniline	190	U	94.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	190	U	94.9	190	ug/Kg
105-60-2	Caprolactam	380	U	98.9	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	190	U	88.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	190	U	94.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	380	UQ	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	190	U	81.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	190	U	84.3	190	ug/Kg
92-52-4	1,1-Biphenyl	190	U	99.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	190	U	94.9	190	ug/Kg
88-74-4	2-Nitroaniline	190	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	190	U	93.1	190	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-2.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141462.D	1	01/29/25 08:40	02/05/25 21:57	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	190	U	98.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	94.8	190	ug/Kg
99-09-2	3-Nitroaniline	190	U	100	190	ug/Kg
83-32-9	Acenaphthene	190	U	92.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	380	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	380	U	130	380	ug/Kg
132-64-9	Dibenzofuran	190	U	96.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	190	U	98.2	190	ug/Kg
84-66-2	Diethylphthalate	190	U	91.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	190	U	97.6	190	ug/Kg
86-73-7	Fluorene	190	U	97.4	190	ug/Kg
100-01-6	4-Nitroaniline	190	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	380	U	130	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	93.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	190	U	89.9	190	ug/Kg
118-74-1	Hexachlorobenzene	190	U	96.9	190	ug/Kg
1912-24-9	Atrazine	190	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	380	U	88.1	380	ug/Kg
85-01-8	Phenanthrene	850		95.7	190	ug/Kg
120-12-7	Anthracene	240		96.2	190	ug/Kg
86-74-8	Carbazole	190	U	91.5	190	ug/Kg
84-74-2	Di-n-butylphthalate	190	U	96.1	190	ug/Kg
206-44-0	Fluoranthene	1800		93.1	190	ug/Kg
129-00-0	Pyrene	1000		94.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	190	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	380	U	110	380	ug/Kg
56-55-3	Benzo(a)anthracene	790		92.0	190	ug/Kg
218-01-9	Chrysene	670		90.6	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	380	U	130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	840		92.4	190	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-2.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141462.D	1	01/29/25 08:40	02/05/25 21:57	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	320		94.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	660		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	220		89.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	190	U	92.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	230		91.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	98.9	190	ug/Kg
123-91-1	1,4-Dioxane	190	U	130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	85.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	75.4		18 - 112	50%	SPK: 150
13127-88-3	Phenol-d6	72.0		15 - 107	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.9		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.0		20 - 109	54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	73.2		10 - 116	49%	SPK: 150
1718-51-0	Terphenyl-d14	34.8		10 - 105	35%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	70300	6.787			
1146-65-2	Naphthalene-d8	262000	8.069			
15067-26-2	Acenaphthene-d10	119000	9.828			
1517-22-2	Phenanthrene-d10	175000	11.31			
1719-03-5	Chrysene-d12	157000	13.957			
1520-96-3	Perylene-d12	120000	15.41			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	380	J		10.5	ug/Kg
321732-25-6	Dehydrochamazulene	120	J		11.2	ug/Kg
000613-12-7	Anthracene, 2-methyl-	190	J		11.8	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	420	J		11.8	ug/Kg
000949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b	140	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	450	J		11.9	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	180	J		12.1	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-2.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141462.D	1	01/29/25 08:40	02/05/25 21:57	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
003674-66-6	Phenanthrene, 2,5-dimethyl-	140	J		12.4	ug/Kg
000605-02-7	Naphthalene, 1-phenyl-	100	J		12.4	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	130	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	110	J		13.0	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	190	J		13.1	ug/Kg
000238-84-6	11H-Benzo[a]fluorene	79.4	J		13.2	ug/Kg
003442-78-2	Pyrene, 2-methyl-	110	J		13.2	ug/Kg
000192-97-2	Benzo[e]pyrene	420	J		15.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-5.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141464.D	1	01/29/25 08:40	02/05/25 22:49	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	360	U	200	360	ug/Kg
108-95-2	Phenol	190	U	91.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	190	U	92.0	190	ug/Kg
95-57-8	2-Chlorophenol	190	U	91.8	190	ug/Kg
95-48-7	2-Methylphenol	190	U	88.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	190	U	100	190	ug/Kg
98-86-2	Acetophenone	190	U	95.6	190	ug/Kg
65794-96-9	3+4-Methylphenols	360	U	87.8	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	88.0	U	44.3	88.0	ug/Kg
67-72-1	Hexachloroethane	190	U	91.3	190	ug/Kg
98-95-3	Nitrobenzene	190	U	99.9	190	ug/Kg
78-59-1	Isophorone	190	U	93.0	190	ug/Kg
88-75-5	2-Nitrophenol	190	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	190	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	U	94.4	190	ug/Kg
120-83-2	2,4-Dichlorophenol	190	U	83.0	190	ug/Kg
91-20-3	Naphthalene	190	U	90.8	190	ug/Kg
106-47-8	4-Chloroaniline	190	U	90.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	190	U	91.6	190	ug/Kg
105-60-2	Caprolactam	360	U	95.5	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	190	U	85.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	190	U	90.7	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	360	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	190	U	78.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	190	U	81.4	190	ug/Kg
92-52-4	1,1-Biphenyl	190	U	96.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	190	U	91.6	190	ug/Kg
88-74-4	2-Nitroaniline	190	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	190	U	89.8	190	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-5.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141464.D	1	01/29/25 08:40	02/05/25 22:49	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	190	U	95.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	91.5	190	ug/Kg
99-09-2	3-Nitroaniline	190	U	98.1	190	ug/Kg
83-32-9	Acenaphthene	190	U	89.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	360	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	360	U	130	360	ug/Kg
132-64-9	Dibenzofuran	190	U	92.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	190	U	94.8	190	ug/Kg
84-66-2	Diethylphthalate	190	U	88.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	190	U	94.1	190	ug/Kg
86-73-7	Fluorene	190	U	94.0	190	ug/Kg
100-01-6	4-Nitroaniline	190	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	360	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	89.7	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	190	U	86.8	190	ug/Kg
118-74-1	Hexachlorobenzene	190	U	93.5	190	ug/Kg
1912-24-9	Atrazine	190	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	360	U	85.0	360	ug/Kg
85-01-8	Phenanthrene	720		92.4	190	ug/Kg
120-12-7	Anthracene	230		92.8	190	ug/Kg
86-74-8	Carbazole	190	U	88.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	190	U	92.7	190	ug/Kg
206-44-0	Fluoranthene	1100		89.8	190	ug/Kg
129-00-0	Pyrene	770		91.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	190	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	360	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	460		88.7	190	ug/Kg
218-01-9	Chrysene	360		87.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	360	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	510		89.2	190	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-5.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141464.D	1	01/29/25 08:40	02/05/25 22:49	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	230		90.8	190	ug/Kg
50-32-8	Benzo(a)pyrene	470		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	220		85.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	190	U	89.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	240		88.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	95.5	190	ug/Kg
123-91-1	1,4-Dioxane	190	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	82.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	58.8		18 - 112	39%	SPK: 150
13127-88-3	Phenol-d6	58.6		15 - 107	39%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.8		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.1		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	41.7		10 - 116	28%	SPK: 150
1718-51-0	Terphenyl-d14	40.0		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59000	6.792			
1146-65-2	Naphthalene-d8	209000	8.069			
15067-26-2	Acenaphthene-d10	95100	9.828			
1517-22-2	Phenanthrene-d10	162000	11.316			
1719-03-5	Chrysene-d12	126000	13.957			
1520-96-3	Perylene-d12	93400	15.421			
TENTATIVE IDENTIFIED COMPOUNDS						
000544-76-3	Hexadecane	130	J		9.23	ug/Kg
000629-78-7	Heptadecane	130	J		9.76	ug/Kg
1000487-41-5	2,6-Bis(chloromethyl)-4-methylphen	75.5	J		10.0	ug/Kg
000629-59-4	Tetradecane	140	J		10.3	ug/Kg
000119-61-9	Benzophenone	260	J		10.5	ug/Kg
000629-50-5	Tridecane	180	J		10.7	ug/Kg
000630-02-4	Octacosane	130	J		11.2	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-5.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141464.D	1	01/29/25 08:40	02/05/25 22:49	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000132-65-0	Dibenzothiophene	86.9	J		11.2	ug/Kg
	unknown11.610	87.6	J		11.6	ug/Kg
000610-48-0	Anthracene, 1-methyl-	82.5	J		11.8	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	170	J		11.8	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	250	J		11.9	ug/Kg
1000197-14-1	4b,8-Dimethyl-2-isopropylphenanthr	120	J		12.3	ug/Kg
	unknown12.410	120	J		12.4	ug/Kg
000483-65-8	Retene	200	J		13.0	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-4.5-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141463.D	1	01/29/25 08:40	02/05/25 22:23	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	400	U	220	400	ug/Kg
108-95-2	Phenol	210	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	100	210	ug/Kg
95-48-7	2-Methylphenol	210	U	98.7	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	110	210	ug/Kg
98-86-2	Acetophenone	210	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	400	U	97.7	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	97.9	U	49.3	97.9	ug/Kg
67-72-1	Hexachloroethane	210	U	100	210	ug/Kg
98-95-3	Nitrobenzene	210	U	110	210	ug/Kg
78-59-1	Isophorone	210	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	92.4	210	ug/Kg
91-20-3	Naphthalene	210	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	100	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	100	210	ug/Kg
105-60-2	Caprolactam	400	U	110	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	94.9	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	400	UQ	190	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	87.4	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	90.6	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	100	210	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-4.5-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141463.D	1	01/29/25 08:40	02/05/25 22:23	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	210	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	210	U	110	210	ug/Kg
83-32-9	Acenaphthene	110	J	99.3	210	ug/Kg
51-28-5	2,4-Dinitrophenol	400	U	300	400	ug/Kg
100-02-7	4-Nitrophenol	400	U	140	400	ug/Kg
132-64-9	Dibenzofuran	210	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	110	210	ug/Kg
84-66-2	Diethylphthalate	210	U	98.1	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	100	210	ug/Kg
86-73-7	Fluorene	110	J	100	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	400	U	140	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	99.9	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	96.6	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	100	210	ug/Kg
1912-24-9	Atrazine	210	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	400	U	94.6	400	ug/Kg
85-01-8	Phenanthrene	1000		100	210	ug/Kg
120-12-7	Anthracene	350		100	210	ug/Kg
86-74-8	Carbazole	210	U	98.3	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	100	210	ug/Kg
206-44-0	Fluoranthene	1600		100	210	ug/Kg
129-00-0	Pyrene	990		100	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	400	U	120	400	ug/Kg
56-55-3	Benzo(a)anthracene	600		98.8	210	ug/Kg
218-01-9	Chrysene	500		97.3	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	J	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	400	U	130	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	640		99.3	210	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-4.5-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141463.D	1	01/29/25 08:40	02/05/25 22:23	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	330		100	210	ug/Kg
50-32-8	Benzo(a)pyrene	580		110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	250		95.6	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	99.4	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	320		98.1	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	130	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	91.5	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	66.7		18 - 112	44%	SPK: 150
13127-88-3	Phenol-d6	60.8		15 - 107	41%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.7		18 - 107	49%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.5		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	65.1		10 - 116	43%	SPK: 150
1718-51-0	Terphenyl-d14	41.0		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	64300	6.787			
1146-65-2	Naphthalene-d8	225000	8.069			
15067-26-2	Acenaphthene-d10	102000	9.828			
1517-22-2	Phenanthrene-d10	169000	11.316			
1719-03-5	Chrysene-d12	143000	13.963			
1520-96-3	Perylene-d12	104000	15.421			
TENTATIVE IDENTIFIED COMPOUNDS						
001120-72-5	Cyclopentanone, 2-methyl-	430	J		5.66	ug/Kg
	unknown6.857	180	J		6.86	ug/Kg
000629-50-5	Tridecane	210	J		8.66	ug/Kg
000629-59-4	Tetradecane	300	J		9.23	ug/Kg
007659-86-1	2-Ethylhexyl mercaptoacetate	330	J		9.42	ug/Kg
074645-98-0	Dodecane, 2,7,10-trimethyl-	200	J		9.54	ug/Kg
000544-76-3	Hexadecane	270	J		9.76	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-4.5-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141463.D	1	01/29/25 08:40	02/05/25 22:23	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000629-92-5	Nonadecane	310	J		10.3	ug/Kg
000112-95-8	Eicosane	210	J		10.5	ug/Kg
000119-61-9	Benzophenone	300	J		10.5	ug/Kg
006418-43-5	Hexadecane, 3-methyl-	770	J		10.7	ug/Kg
004292-19-7	Dodecane, 1-iodo-	230	J		11.2	ug/Kg
1000432-25-9	3-Ethyl-2,6,10-trimethylundecane	300	J		11.2	ug/Kg
000629-78-7	Heptadecane	170	J		11.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	460	J		11.8	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	580	J		11.9	ug/Kg
1000197-14-1	4b,8-Dimethyl-2-isopropylphenanthr	320	J		12.1	ug/Kg
002221-95-6	(1S,4aS,4bS,7S,8aS,10aS)-7-Isoprop	370	J		12.2	ug/Kg
301643-35-6	Naphthalene, 6-ethyl-1,2,3,4-tetra	2300	J		12.3	ug/Kg
000483-65-8	Retene	2000	J		13.0	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-16.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-15	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.8
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141465.D	2	01/29/25 08:40	02/05/25 23:15	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	740	U	410	740	ug/Kg
108-95-2	Phenol	380	U	190	380	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	380	U	190	380	ug/Kg
95-57-8	2-Chlorophenol	380	U	190	380	ug/Kg
95-48-7	2-Methylphenol	380	U	180	380	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	380	U	200	380	ug/Kg
98-86-2	Acetophenone	380	U	200	380	ug/Kg
65794-96-9	3+4-Methylphenols	740	U	180	740	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	180	U	90.5	180	ug/Kg
67-72-1	Hexachloroethane	380	U	190	380	ug/Kg
98-95-3	Nitrobenzene	380	U	200	380	ug/Kg
78-59-1	Isophorone	380	U	190	380	ug/Kg
88-75-5	2-Nitrophenol	380	U	210	380	ug/Kg
105-67-9	2,4-Dimethylphenol	380	U	210	380	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	380	U	190	380	ug/Kg
120-83-2	2,4-Dichlorophenol	380	U	170	380	ug/Kg
91-20-3	Naphthalene	380	U	190	380	ug/Kg
106-47-8	4-Chloroaniline	380	U	190	380	ug/Kg
87-68-3	Hexachlorobutadiene	380	U	190	380	ug/Kg
105-60-2	Caprolactam	740	U	190	740	ug/Kg
59-50-7	4-Chloro-3-methylphenol	380	U	170	380	ug/Kg
91-57-6	2-Methylnaphthalene	380	U	190	380	ug/Kg
77-47-4	Hexachlorocyclopentadiene	740	UQ	350	740	ug/Kg
88-06-2	2,4,6-Trichlorophenol	380	U	160	380	ug/Kg
95-95-4	2,4,5-Trichlorophenol	380	U	170	380	ug/Kg
92-52-4	1,1-Biphenyl	380	U	200	380	ug/Kg
91-58-7	2-Chloronaphthalene	380	U	190	380	ug/Kg
88-74-4	2-Nitroaniline	380	U	210	380	ug/Kg
131-11-3	Dimethylphthalate	380	U	180	380	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-16.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-15	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.8
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141465.D	2	01/29/25 08:40	02/05/25 23:15	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	380	U	190	380	ug/Kg
606-20-2	2,6-Dinitrotoluene	380	U	190	380	ug/Kg
99-09-2	3-Nitroaniline	380	U	200	380	ug/Kg
83-32-9	Acenaphthene	380	U	180	380	ug/Kg
51-28-5	2,4-Dinitrophenol	740	U	550	740	ug/Kg
100-02-7	4-Nitrophenol	740	U	260	740	ug/Kg
132-64-9	Dibenzofuran	380	U	190	380	ug/Kg
121-14-2	2,4-Dinitrotoluene	380	U	190	380	ug/Kg
84-66-2	Diethylphthalate	380	U	180	380	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	380	U	190	380	ug/Kg
86-73-7	Fluorene	380	U	190	380	ug/Kg
100-01-6	4-Nitroaniline	380	U	240	380	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	740	U	260	740	ug/Kg
86-30-6	n-Nitrosodiphenylamine	380	U	180	380	ug/Kg
101-55-3	4-Bromophenyl-phenylether	380	U	180	380	ug/Kg
118-74-1	Hexachlorobenzene	380	U	190	380	ug/Kg
1912-24-9	Atrazine	380	U	210	380	ug/Kg
87-86-5	Pentachlorophenol	740	U	170	740	ug/Kg
85-01-8	Phenanthrene	620		190	380	ug/Kg
120-12-7	Anthracene	190	J	190	380	ug/Kg
86-74-8	Carbazole	380	U	180	380	ug/Kg
84-74-2	Di-n-butylphthalate	380	U	190	380	ug/Kg
206-44-0	Fluoranthene	1200		180	380	ug/Kg
129-00-0	Pyrene	920		190	380	ug/Kg
85-68-7	Butylbenzylphthalate	380	U	220	380	ug/Kg
91-94-1	3,3-Dichlorobenzidine	740	U	220	740	ug/Kg
56-55-3	Benzo(a)anthracene	570		180	380	ug/Kg
218-01-9	Chrysene	440		180	380	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	380	U	200	380	ug/Kg
117-84-0	Di-n-octyl phthalate	740	U	250	740	ug/Kg
205-99-2	Benzo(b)fluoranthene	610		180	380	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-16.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-15	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.8
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141465.D	2	01/29/25 08:40	02/05/25 23:15	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	320	J	190	380	ug/Kg
50-32-8	Benzo(a)pyrene	590		210	380	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	260	J	180	380	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	380	U	180	380	ug/Kg
191-24-2	Benzo(g,h,i)perylene	310	J	180	380	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	380	U	190	380	ug/Kg
123-91-1	1,4-Dioxane	380	U	250	380	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	380	U	170	380	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	102		18 - 112	68%	SPK: 150
13127-88-3	Phenol-d6	95.0		15 - 107	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.9		18 - 107	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.6		20 - 109	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	98.3		10 - 116	66%	SPK: 150
1718-51-0	Terphenyl-d14	71.1		10 - 105	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	63200	6.792			
1146-65-2	Naphthalene-d8	227000	8.075			
15067-26-2	Acenaphthene-d10	108000	9.827			
1517-22-2	Phenanthrene-d10	186000	11.316			
1719-03-5	Chrysene-d12	136000	13.957			
1520-96-3	Perylene-d12	101000	15.415			
TENTATIVE IDENTIFIED COMPOUNDS						
000544-76-3	Hexadecane	180	J		8.66	ug/Kg
000629-92-5	Nonadecane	240	J		9.23	ug/Kg
000119-61-9	Benzophenone	460	J		10.5	ug/Kg
000629-50-5	Tridecane	160	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	440	J		11.8	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	280	J		11.9	ug/Kg
1000197-14-1	4b,8-Dimethyl-2-isopropylphenanthr	160	J		12.3	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-16.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-15	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.8
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141465.D	2	01/29/25 08:40	02/05/25 23:15	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000483-65-8	Retene	330	J		13.0	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-20.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-19	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141460.D	1	01/29/25 08:40	02/05/25 21:05	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	380	U	210	380	ug/Kg
108-95-2	Phenol	190	U	94.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	190	U	95.2	190	ug/Kg
95-57-8	2-Chlorophenol	190	U	94.9	190	ug/Kg
95-48-7	2-Methylphenol	190	U	91.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	190	U	100	190	ug/Kg
98-86-2	Acetophenone	190	U	98.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	380	U	90.7	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	91.0	U	45.8	91.0	ug/Kg
67-72-1	Hexachloroethane	190	U	94.4	190	ug/Kg
98-95-3	Nitrobenzene	190	U	100	190	ug/Kg
78-59-1	Isophorone	190	U	96.2	190	ug/Kg
88-75-5	2-Nitrophenol	190	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	190	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	U	97.6	190	ug/Kg
120-83-2	2,4-Dichlorophenol	190	U	85.8	190	ug/Kg
91-20-3	Naphthalene	190	U	93.9	190	ug/Kg
106-47-8	4-Chloroaniline	190	U	93.9	190	ug/Kg
87-68-3	Hexachlorobutadiene	190	U	94.7	190	ug/Kg
105-60-2	Caprolactam	380	U	98.7	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	190	U	88.1	190	ug/Kg
91-57-6	2-Methylnaphthalene	190	U	93.8	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	380	UQ	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	190	U	81.2	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	190	U	84.1	190	ug/Kg
92-52-4	1,1-Biphenyl	190	U	99.4	190	ug/Kg
91-58-7	2-Chloronaphthalene	190	U	94.7	190	ug/Kg
88-74-4	2-Nitroaniline	190	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	190	U	92.9	190	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-20.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-19	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141460.D	1	01/29/25 08:40	02/05/25 21:05	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	190	U	98.4	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	94.6	190	ug/Kg
99-09-2	3-Nitroaniline	190	U	100	190	ug/Kg
83-32-9	Acenaphthene	190	U	92.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	380	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	380	U	130	380	ug/Kg
132-64-9	Dibenzofuran	190	U	96.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	190	U	98.0	190	ug/Kg
84-66-2	Diethylphthalate	190	U	91.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	190	U	97.3	190	ug/Kg
86-73-7	Fluorene	190	U	97.2	190	ug/Kg
100-01-6	4-Nitroaniline	190	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	380	U	130	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	92.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	190	U	89.7	190	ug/Kg
118-74-1	Hexachlorobenzene	190	U	96.6	190	ug/Kg
1912-24-9	Atrazine	190	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	380	U	87.9	380	ug/Kg
85-01-8	Phenanthrene	550		95.5	190	ug/Kg
120-12-7	Anthracene	120	J	96.0	190	ug/Kg
86-74-8	Carbazole	190	U	91.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	190	U	95.9	190	ug/Kg
206-44-0	Fluoranthene	770		92.9	190	ug/Kg
129-00-0	Pyrene	500		94.4	190	ug/Kg
85-68-7	Butylbenzylphthalate	190	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	380	U	110	380	ug/Kg
56-55-3	Benzo(a)anthracene	340		91.8	190	ug/Kg
218-01-9	Chrysene	320		90.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	380	U	130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	390		92.2	190	ug/Kg

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Report of Analysis

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Client Sample ID:	JPP-20.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-19	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141460.D	1	01/29/25 08:40	02/05/25 21:05	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	200		93.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	370		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	J	88.8	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	190	U	92.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	J	91.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	98.7	190	ug/Kg
123-91-1	1,4-Dioxane	190	U	130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	84.9	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	42.6		18 - 112	28%	SPK: 150
13127-88-3	Phenol-d6	40.5		15 - 107	27%	SPK: 150
4165-60-0	Nitrobenzene-d5	29.2		18 - 107	29%	SPK: 100
321-60-8	2-Fluorobiphenyl	29.2		20 - 109	29%	SPK: 100
118-79-6	2,4,6-Tribromophenol	35.6		10 - 116	24%	SPK: 150
1718-51-0	Terphenyl-d14	18.1		10 - 105	18%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	72500	6.787			
1146-65-2	Naphthalene-d8	288000	8.069			
15067-26-2	Acenaphthene-d10	141000	9.828			
1517-22-2	Phenanthrene-d10	195000	11.31			
1719-03-5	Chrysene-d12	169000	13.957			
1520-96-3	Perylene-d12	154000	15.421			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	140	J		10.5	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	130	J		11.8	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	150	J		11.9	ug/Kg
000192-97-2	Benzo[e]pyrene	250	J		15.3	ug/Kg
1000285-40-2	.beta.-iso-Methyl ionone	160	J		16.5	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-20.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-19	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141460.D	1	01/29/25 08:40	02/05/25 21:05	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166335BL	PB166335BL	2-Fluorophenol	150	143	96		18	112
		Phenol-d6	150	140	93		15	107
		Nitrobenzene-d5	100	100.0	100		18	107
		2-Fluorobiphenyl	100	98.4	98		20	109
		2,4,6-Tribromophenol	150	158	105		10	116
		Terphenyl-d14	100	90.7	91		10	105
PB166335BS	PB166335BS	2-Fluorophenol	150	128	85		18	112
		Phenol-d6	150	128	85		15	107
		Nitrobenzene-d5	100	87.9	88		18	107
		2-Fluorobiphenyl	100	83.5	83		20	109
		2,4,6-Tribromophenol	150	133	89		10	116
		Terphenyl-d14	100	88.2	88		10	105
Q1207-03	JPP-2.1-012725	2-Fluorophenol	150	75.4	50		18	112
		Phenol-d6	150	72.0	48		15	107
		Nitrobenzene-d5	100	54.9	55		18	107
		2-Fluorobiphenyl	100	54.0	54		20	109
		2,4,6-Tribromophenol	150	73.2	49		10	116
		Terphenyl-d14	100	34.8	35		10	105
Q1207-07	JPP-5.1-012725	2-Fluorophenol	150	58.8	39		18	112
		Phenol-d6	150	58.6	39		15	107
		Nitrobenzene-d5	100	46.8	47		18	107
		2-Fluorobiphenyl	100	49.1	49		20	109
		2,4,6-Tribromophenol	150	41.7	28		10	116
		Terphenyl-d14	100	40.0	40		10	105
Q1207-11	JPP-4.5-012725	2-Fluorophenol	150	66.7	44		18	112
		Phenol-d6	150	60.8	41		15	107
		Nitrobenzene-d5	100	48.7	49		18	107
		2-Fluorobiphenyl	100	50.5	50		20	109
		2,4,6-Tribromophenol	150	65.1	43		10	116
		Terphenyl-d14	100	41.0	41		10	105
Q1207-15	JPP-16.2-012725	2-Fluorophenol	150	102	68		18	112
		Phenol-d6	150	95.0	63		15	107
		Nitrobenzene-d5	100	73.9	74		18	107
		2-Fluorobiphenyl	100	78.6	79		20	109
		2,4,6-Tribromophenol	150	98.3	66		10	116
		Terphenyl-d14	100	71.1	71		10	105
Q1207-19	JPP-20.2-012725	2-Fluorophenol	150	42.6	28		18	112
		Phenol-d6	150	40.5	27		15	107
		Nitrobenzene-d5	100	29.2	29		18	107
		2-Fluorobiphenyl	100	29.2	29		20	109
		2,4,6-Tribromophenol	150	35.6	24		10	116
		Terphenyl-d14	100	18.1	18		10	105
Q1209-05MS	WC-5MS	2-Fluorophenol	150	88.1	59		18	112
		Phenol-d6	150	88.4	59		15	107
		Nitrobenzene-d5	100	61.6	62		18	107
		2-Fluorobiphenyl	100	57.4	57		20	109
		2,4,6-Tribromophenol	150	93.3	62		10	116
		Terphenyl-d14	100	65.2	65		10	105
Q1209-05MSD	WC-5MSD	2-Fluorophenol	150	89.7	60		18	112
		Phenol-d6	150	90.9	61		15	107
		Nitrobenzene-d5	100	63.3	63		18	107

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Surrogate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1209-05MSD	WC-5MSD	2-Fluorobiphenyl	100	59.4	59		20	109
		2,4,6-Tribromophenol	150	97.4	65		10	116
		Terphenyl-d14	100	66.2	66		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1209-05MS		**Client Sample ID: WC-5MS**						**DataFile: BF141315.D**			
Benzaldehyde	1100	0	1100	ug/Kg	100	*			10	86	
Phenol	1100	0	880	ug/Kg	80				67	126	
bis(2-Chloroethyl)ether	1100	0	870	ug/Kg	79				54	125	
2-Chlorophenol	1100	0	890	ug/Kg	81				79	107	
2-Methylphenol	1100	0	890	ug/Kg	81				66	122	
2,2-oxybis(1-Chloropropane)	1100	0	910	ug/Kg	83				65	110	
Acetophenone	1100	0	930	ug/Kg	85				75	111	
3+4-Methylphenols	1100	0	840	ug/Kg	76				66	104	
N-Nitroso-di-n-propylamine	1100	0	850	ug/Kg	77				59	119	
Hexachloroethane	1100	0	840	ug/Kg	76				65	117	
Nitrobenzene	1100	0	830	ug/Kg	75				70	119	
Isophorone	1100	0	890	ug/Kg	81				76	122	
2-Nitrophenol	1100	0	890	ug/Kg	81				54	145	
2,4-Dimethylphenol	1100	0	1100	ug/Kg	100				44	135	
bis(2-Chloroethoxy)methane	1100	0	870	ug/Kg	79				68	112	
2,4-Dichlorophenol	1100	0	870	ug/Kg	79				72	118	
Naphthalene	1100	0	830	ug/Kg	75				72	110	
4-Chloroaniline	1100	0	340	ug/Kg	31				10	91	
Hexachlorobutadiene	1100	0	820	ug/Kg	75				66	114	
Caprolactam	1100	0	970	ug/Kg	88				51	134	
4-Chloro-3-methylphenol	1100	0	890	ug/Kg	81				57	132	
2-Methylnaphthalene	1100	0	820	ug/Kg	75				59	123	
Hexachlorocyclopentadiene	2300	0	3300	ug/Kg	143				10	175	
2,4,6-Trichlorophenol	1100	0	910	ug/Kg	83				72	117	
2,4,5-Trichlorophenol	1100	0	810	ug/Kg	74				72	117	
1,1-Biphenyl	1100	0	920	ug/Kg	84				75	113	
2-Chloronaphthalene	1100	0	820	ug/Kg	75				67	118	
2-Nitroaniline	1100	0	880	ug/Kg	80				69	127	
Dimethylphthalate	1100	0	860	ug/Kg	78				70	113	
Acenaphthylene	1100	0	910	ug/Kg	83				79	118	
2,6-Dinitrotoluene	1100	0	820	ug/Kg	75				70	125	
3-Nitroaniline	1100	0	400	ug/Kg	36				30	99	
Acenaphthene	1100	0	940	ug/Kg	85				70	121	
2,4-Dinitrophenol	2300	0	2100	ug/Kg	91				10	155	
4-Nitrophenol	2300	0	2000	ug/Kg	87				45	133	
Dibenzofuran	1100	0	840	ug/Kg	76				72	110	
2,4-Dinitrotoluene	1100	0	860	ug/Kg	78				55	128	
Diethylphthalate	1100	0	850	ug/Kg	77				70	112	
4-Chlorophenyl-phenylether	1100	0	820	ug/Kg	75				71	108	
Fluorene	1100	0	830	ug/Kg	75				68	116	
4-Nitroaniline	1100	0	880	ug/Kg	80				55	120	
4,6-Dinitro-2-methylphenol	1100	0	1000	ug/Kg	91				10	160	
N-Nitrosodiphenylamine	1100	0	900	ug/Kg	82				73	118	
4-Bromophenyl-phenylether	1100	0	880	ug/Kg	80				65	121	
Hexachlorobenzene	1100	0	870	ug/Kg	79				67	118	
Atrazine	1100	0	980	ug/Kg	89				79	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	2300	0	1900	ug/Kg	83				47	128	
Phenanthrene	1100	0	890	ug/Kg	81				52	128	
Anthracene	1100	0	920	ug/Kg	84				62	124	
Carbazole	1100	0	910	ug/Kg	83				59	119	
Di-n-butylphthalate	1100	0	910	ug/Kg	83				69	118	
Fluoranthene	1100	0	870	ug/Kg	79				44	125	
Pyrene	1100	0	880	ug/Kg	80				26	142	
Butylbenzylphthalate	1100	0	1000	ug/Kg	91				64	126	
3,3-Dichlorobenzidine	1100	0	660	ug/Kg	60				33	116	
Benzo(a)anthracene	1100	0	830	ug/Kg	75				71	114	
Chrysene	1100	0	880	ug/Kg	80				57	121	
bis(2-Ethylhexyl)phthalate	1100	0	960	ug/Kg	87				42	169	
Di-n-octyl phthalate	1100	0	910	ug/Kg	83				23	175	
Benzo(b)fluoranthene	1100	0	860	ug/Kg	78				67	121	
Benzo(k)fluoranthene	1100	0	870	ug/Kg	79				57	134	
Benzo(a)pyrene	1100	0	950	ug/Kg	86				70	142	
Indeno(1,2,3-cd)pyrene	1100	0	1000	ug/Kg	91				40	129	
Dibenz(a,h)anthracene	1100	0	1000	ug/Kg	91				43	123	
Benzo(g,h,i)perylene	1100	0	940	ug/Kg	85				24	125	
1,2,4,5-Tetrachlorobenzene	1100	0	910	ug/Kg	83				69	124	
1,4-Dioxane	1100	0	870	ug/Kg	79				46	112	
2,3,4,6-Tetrachlorophenol	1100	0	910	ug/Kg	83				69	112	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1209-05MSD		**Client Sample ID: WC-5MSD**						**DataFile: BF141316.D**			
Benzaldehyde	1100	0	1200	ug/Kg	109	*	9		10	86	20
Phenol	1100	0	900	ug/Kg	82		2		67	126	20
bis(2-Chloroethyl)ether	1100	0	880	ug/Kg	80		1		54	125	20
2-Chlorophenol	1100	0	920	ug/Kg	84		4		79	107	20
2-Methylphenol	1100	0	900	ug/Kg	82		1		66	122	20
2,2-oxybis(1-Chloropropane)	1100	0	930	ug/Kg	85		2		65	110	20
Acetophenone	1100	0	960	ug/Kg	87		2		75	111	20
3+4-Methylphenols	1100	0	850	ug/Kg	77		1		66	104	20
N-Nitroso-di-n-propylamine	1100	0	880	ug/Kg	80		4		59	119	20
Hexachloroethane	1100	0	870	ug/Kg	79		4		65	117	20
Nitrobenzene	1100	0	840	ug/Kg	76		1		70	119	20
Isophorone	1100	0	910	ug/Kg	83		2		76	122	20
2-Nitrophenol	1100	0	920	ug/Kg	84		4		54	145	20
2,4-Dimethylphenol	1100	0	1100	ug/Kg	100		0		44	135	20
bis(2-Chloroethoxy)methane	1100	0	890	ug/Kg	81		3		68	112	20
2,4-Dichlorophenol	1100	0	890	ug/Kg	81		3		72	118	20
Naphthalene	1100	0	840	ug/Kg	76		1		72	110	20
4-Chloroaniline	1100	0	320	ug/Kg	29		7		10	91	20
Hexachlorobutadiene	1100	0	830	ug/Kg	75		0		66	114	20
Caprolactam	1100	0	970	ug/Kg	88		0		51	134	20
4-Chloro-3-methylphenol	1100	0	900	ug/Kg	82		1		57	132	20
2-Methylnaphthalene	1100	0	840	ug/Kg	76		1		59	123	20
Hexachlorocyclopentadiene	2300	0	3500	ug/Kg	152		6		10	175	20
2,4,6-Trichlorophenol	1100	0	960	ug/Kg	87		5		72	117	20
2,4,5-Trichlorophenol	1100	0	850	ug/Kg	77		4		72	117	20
1,1-Biphenyl	1100	0	960	ug/Kg	87		4		75	113	20
2-Chloronaphthalene	1100	0	850	ug/Kg	77		3		67	118	20
2-Nitroaniline	1100	0	940	ug/Kg	85		6		69	127	20
Dimethylphthalate	1100	0	890	ug/Kg	81		4		70	113	20
Acenaphthylene	1100	0	940	ug/Kg	85		2		79	118	20
2,6-Dinitrotoluene	1100	0	860	ug/Kg	78		4		70	125	20
3-Nitroaniline	1100	0	410	ug/Kg	37		3		30	99	20
Acenaphthene	1100	0	980	ug/Kg	89		5		70	121	20
2,4-Dinitrophenol	2300	0	2200	ug/Kg	96		5		10	155	20
4-Nitrophenol	2300	0	2100	ug/Kg	91		4		45	133	20
Dibenzofuran	1100	0	870	ug/Kg	79		4		72	110	20
2,4-Dinitrotoluene	1100	0	890	ug/Kg	81		4		55	128	20
Diethylphthalate	1100	0	880	ug/Kg	80		4		70	112	20
4-Chlorophenyl-phenylether	1100	0	850	ug/Kg	77		3		71	108	20
Fluorene	1100	0	860	ug/Kg	78		4		68	116	20
4-Nitroaniline	1100	0	910	ug/Kg	83		4		55	120	20
4,6-Dinitro-2-methylphenol	1100	0	1100	ug/Kg	100		9		10	160	20
N-Nitrosodiphenylamine	1100	0	920	ug/Kg	84		2		73	118	20
4-Bromophenyl-phenylether	1100	0	910	ug/Kg	83		4		65	121	20
Hexachlorobenzene	1100	0	880	ug/Kg	80		1		67	118	20
Atrazine	1100	0	1000	ug/Kg	91		2		79	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2300	0	1900	ug/Kg	83	0			47	128	20
Phenanthrene	1100	0	910	ug/Kg	83	2			52	128	20
Anthracene	1100	0	940	ug/Kg	85	1			62	124	20
Carbazole	1100	0	930	ug/Kg	85	2			59	119	20
Di-n-butylphthalate	1100	0	930	ug/Kg	85	2			69	118	20
Fluoranthene	1100	0	910	ug/Kg	83	5			44	125	20
Pyrene	1100	0	900	ug/Kg	82	2			26	142	20
Butylbenzylphthalate	1100	0	1000	ug/Kg	91	0			64	126	20
3,3-Dichlorobenzidine	1100	0	700	ug/Kg	64	6			33	116	20
Benzo(a)anthracene	1100	0	890	ug/Kg	81	8			71	114	20
Chrysene	1100	0	890	ug/Kg	81	1			57	121	20
bis(2-Ethylhexyl)phthalate	1100	0	1000	ug/Kg	91	4			42	169	20
Di-n-octyl phthalate	1100	0	950	ug/Kg	86	4			23	175	20
Benzo(b)fluoranthene	1100	0	950	ug/Kg	86	10			67	121	20
Benzo(k)fluoranthene	1100	0	850	ug/Kg	77	3			57	134	20
Benzo(a)pyrene	1100	0	980	ug/Kg	89	3			70	142	20
Indeno(1,2,3-cd)pyrene	1100	0	1000	ug/Kg	91	0			40	129	20
Dibenz(a,h)anthracene	1100	0	1000	ug/Kg	91	0			43	123	20
Benzo(g,h,i)perylene	1100	0	960	ug/Kg	87	2			24	125	20
1,2,4,5-Tetrachlorobenzene	1100	0	950	ug/Kg	86	4			69	124	20
1,4-Dioxane	1100	0	870	ug/Kg	79	0			46	112	20
2,3,4,6-Tetrachlorophenol	1100	0	950	ug/Kg	86	4			69	112	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8270E **DataFile:** BF141303.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166335BS	Benzaldehyde	1700	220	ug/Kg	13				10	133	
	Phenol	1700	1500	ug/Kg	88				62	112	
	bis(2-Chloroethyl)ether	1700	1600	ug/Kg	94				60	101	
	2-Chlorophenol	1700	1600	ug/Kg	94				65	112	
	2-Methylphenol	1700	1600	ug/Kg	94				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1600	ug/Kg	94				51	100	
	Acetophenone	1700	1500	ug/Kg	88				66	98	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1500	ug/Kg	88				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1600	ug/Kg	94				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1900	ug/Kg	112				46	141	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1500	ug/Kg	88				62	100	
	4-Chloroaniline	1700	790	ug/Kg	46				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1600	ug/Kg	94				67	110	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				58	112	
	2-Methylnaphthalene	1700	1500	ug/Kg	88				60	104	
	Hexachlorocyclopentadiene	3300	5800	ug/Kg	176		*		45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1600	ug/Kg	94				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1600	ug/Kg	94				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	970	ug/Kg	57				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3400	ug/Kg	103				37	128	
	4-Nitrophenol	3300	3300	ug/Kg	100				48	119	
	Dibenzofuran	1700	1500	ug/Kg	88				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1600	ug/Kg	94				64	103	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				76	113	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				71	99	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8270E **DataFile:** BF141303.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166335BS	Hexachlorobenzene	1700	1500	ug/Kg	88				64	98	
	Atrazine	1700	1600	ug/Kg	94				47	152	
	Pentachlorophenol	3300	3100	ug/Kg	94				67	105	
	Phenanthrene	1700	1600	ug/Kg	94				59	103	
	Anthracene	1700	1600	ug/Kg	94				61	105	
	Carbazole	1700	1600	ug/Kg	94				61	99	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				58	104	
	Fluoranthene	1700	1600	ug/Kg	94				57	107	
	Pyrene	1700	1500	ug/Kg	88				59	103	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				55	103	
	3,3-Dichlorobenzidine	1700	840	ug/Kg	49				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				54	135	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				52	137	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(k)fluoranthene	1700	1700	ug/Kg	100				62	109	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				53	101	
	1,4-Dioxane	1700	1300	ug/Kg	76				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166335BL

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

Lab File ID: BF141374.D Lab Sample ID: PB166335BL

Instrument ID: BNA_F Date Extracted: 01/29/2025

Matrix: (soil/water) SOIL Date Analyzed: 02/03/2025

Level: (low/med) LOW Time Analyzed: 17:41

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
JPP-2.1-012725	Q1207-03	BF141462.D	02/05/2025
JPP-5.1-012725	Q1207-07	BF141464.D	02/05/2025
JPP-20.2-012725	Q1207-19	BF141460.D	02/05/2025
JPP-4.5-012725	Q1207-11	BF141463.D	02/05/2025
JPP-16.2-012725	Q1207-15	BF141465.D	02/05/2025
PB166335BS	PB166335BS	BF141303.D	01/30/2025
WC-5MS	Q1209-05MS	BF141315.D	01/30/2025
WC-5MSD	Q1209-05MSD	BF141316.D	01/30/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM SAS No.: Q1207 SDG NO.: Q1207

Lab File ID: BF141289.D DFTPP Injection Date: 01/29/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.1
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	35.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	83.6
443	15.0 - 24.0% of mass 442	16.2 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141290.D	01/29/2025	10:30
SSTDICC005	SSTDICC005	BF141291.D	01/29/2025	10:56
SSTDICC010	SSTDICC010	BF141292.D	01/29/2025	11:49
SSTDICC020	SSTDICC020	BF141293.D	01/29/2025	15:17
SSTDICCC040	SSTDICCC040	BF141294.D	01/29/2025	15:45
SSTDICC050	SSTDICC050	BF141295.D	01/29/2025	16:11
SSTDICC060	SSTDICC060	BF141296.D	01/29/2025	16:38
SSTDICC080	SSTDICC080	BF141297.D	01/29/2025	17:05

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM SAS No.: Q1207 SDG NO.: Q1207

Lab File ID: BF141300.D DFTPP Injection Date: 01/30/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	45
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.4
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	72.8
443	15.0 - 24.0% of mass 442	14.4 (19.8) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141301.D	01/30/2025	08:54
PB166335BS	PB166335BS	BF141303.D	01/30/2025	09:57
WC-5MS	Q1209-05MS	BF141315.D	01/30/2025	16:03
WC-5MSD	Q1209-05MSD	BF141316.D	01/30/2025	16:30

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM SAS No.: Q1207 SDG NO.: Q1207

Lab File ID: BF141372.D DFTPP Injection Date: 02/03/2025

Instrument ID: BNA_F DFTPP Injection Time: 16:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.1
68	Less than 2.0% of mass 69	0.8 (2) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	50.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	12.1
442	Greater than 50% of mass 198	75.7
443	15.0 - 24.0% of mass 442	14.7 (19.5) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141373.D	02/03/2025	17:14
PB166335BL	PB166335BL	BF141374.D	02/03/2025	17:41

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM SAS No.: Q1207 SDG NO.: Q1207

Lab File ID: BF141446.D DFTPP Injection Date: 02/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 14:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	12.6
442	Greater than 50% of mass 198	82.1
443	15.0 - 24.0% of mass 442	14.9 (18.2) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141447.D	02/05/2025	15:16
JPP-20.2-012725	Q1207-19	BF141460.D	02/05/2025	21:05
JPP-2.1-012725	Q1207-03	BF141462.D	02/05/2025	21:57
JPP-4.5-012725	Q1207-11	BF141463.D	02/05/2025	22:23
JPP-5.1-012725	Q1207-07	BF141464.D	02/05/2025	22:49
JPP-16.2-012725	Q1207-15	BF141465.D	02/05/2025	23:15

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/30/2025

Lab File ID: BF141301.D Time Analyzed: 08:54

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	146467	6.798	575983	8.08	308835	9.84
	UPPER LIMIT	292934	7.298	1151970	8.581	617670	10.339
	LOWER LIMIT	73233.5	6.298	287992	7.581	154418	9.339
	EPA SAMPLE NO.						
01	PB166335BS	142147	6.80	577653	8.08	314839	9.84
02	WC-5MS	167075	6.80	669898	8.08	361408	9.84
03	WC-5MSD	167424	6.80	670473	8.08	356498	9.84

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/30/2025

Lab File ID: BF141301.D Time Analyzed: 08:54

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	511005	11.322	290304	13.969	298783	15.421
	UPPER LIMIT	1022010	11.822	580608	14.469	597566	15.921
	LOWER LIMIT	255503	10.822	145152	13.469	149392	14.921
	EPA SAMPLE NO.						
01	PB166335BS	527268	11.33	325031	13.97	295368	15.45
02	WC-5MS	589870	11.33	319317	13.97	315915	15.45
03	WC-5MSD	588680	11.33	325949	13.97	310604	15.46

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/03/2025

Lab File ID: BF141373.D Time Analyzed: 17:14

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	104167	6.798	414412	8.08	226326	9.83
	UPPER LIMIT	208334	7.298	828824	8.581	452652	10.333
	LOWER LIMIT	52083.5	6.298	207206	7.581	113163	9.333
	EPA SAMPLE NO.						
01	PB166335BL	90939	6.79	365110	8.08	206122	9.83

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/03/2025

Lab File ID: BF141373.D Time Analyzed: 17:14

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	383558	11.322	233911	13.963	231577	15.415
	UPPER LIMIT	767116	11.822	467822	14.463	463154	15.915
	LOWER LIMIT	191779	10.822	116956	13.463	115789	14.915
	EPA SAMPLE NO.						
01	PB166335BL	372851	11.32	290144	13.96	250729	15.40

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/05/2025

Lab File ID: BF141447.D Time Analyzed: 15:16

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	82418	6.792	312528	8.08	169230	9.83
	UPPER LIMIT	164836	7.292	625056	8.575	338460	10.328
	LOWER LIMIT	41209	6.292	156264	7.575	84615	9.328
	EPA SAMPLE NO.						
01	JPP-2.1-012725	70299	6.79	262308	8.07	119422	9.83
02	JPP-5.1-012725	59021	6.79	209153	8.07	95113	9.83
03	JPP-4.5-012725	64317	6.79	224656	8.07	101868	9.83
04	JPP-16.2-012725	63173	6.79	226729	8.08	107544	9.83
05	JPP-20.2-012725	72530	6.79	288100	8.07	141483	9.83

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/05/2025

Lab File ID: BF141447.D Time Analyzed: 15:16

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	293274	11.316	189132	13.963	170936	15.421
	UPPER LIMIT	586548	11.816	378264	14.463	341872	15.921
	LOWER LIMIT	146637	10.816	94566	13.463	85468	14.921
	EPA SAMPLE NO.						
01	JPP-2.1-012725	175054	11.31	157036	13.96	119629	15.41
02	JPP-5.1-012725	162078	11.32	126468	13.96	93403	15.42
03	JPP-4.5-012725	168524	11.32	142671	13.96	103713	15.42
04	JPP-16.2-012725	186178	11.32	135658	13.96	100723	15.42
05	JPP-20.2-012725	194970	11.31	168850	13.96	153896	15.42

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166335BL	SDG No.:	Q1207
Lab Sample ID:	PB166335BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141374.D	1	01/29/25 08:40	02/03/25 17:41	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	330	U	180	330	ug/Kg
108-95-2	Phenol	170	U	82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	83.6	170	ug/Kg
95-57-8	2-Chlorophenol	170	U	83.4	170	ug/Kg
95-48-7	2-Methylphenol	170	U	80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	90.8	170	ug/Kg
98-86-2	Acetophenone	170	U	86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	330	U	79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	79.9	U	40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	170	U	82.9	170	ug/Kg
98-95-3	Nitrobenzene	170	U	90.7	170	ug/Kg
78-59-1	Isophorone	170	U	84.5	170	ug/Kg
88-75-5	2-Nitrophenol	170	U	94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	75.4	170	ug/Kg
91-20-3	Naphthalene	170	U	82.5	170	ug/Kg
106-47-8	4-Chloroaniline	170	U	82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	83.2	170	ug/Kg
105-60-2	Caprolactam	330	U	86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	330	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	170	U	87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	83.2	170	ug/Kg
88-74-4	2-Nitroaniline	170	U	94.9	170	ug/Kg
131-11-3	Dimethylphthalate	170	U	81.6	170	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166335BL	SDG No.:	Q1207
Lab Sample ID:	PB166335BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141374.D	1	01/29/25 08:40	02/03/25 17:41	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	83.1	170	ug/Kg
99-09-2	3-Nitroaniline	170	U	89.1	170	ug/Kg
83-32-9	Acenaphthene	170	U	81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	330	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	330	U	120	330	ug/Kg
132-64-9	Dibenzofuran	170	U	84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	86.1	170	ug/Kg
84-66-2	Diethylphthalate	170	U	80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	85.5	170	ug/Kg
86-73-7	Fluorene	170	U	85.4	170	ug/Kg
100-01-6	4-Nitroaniline	170	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	330	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	170	U	84.9	170	ug/Kg
1912-24-9	Atrazine	170	U	91.3	170	ug/Kg
87-86-5	Pentachlorophenol	330	U	77.2	330	ug/Kg
85-01-8	Phenanthrene	170	U	83.9	170	ug/Kg
120-12-7	Anthracene	170	U	84.3	170	ug/Kg
86-74-8	Carbazole	170	U	80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	84.2	170	ug/Kg
206-44-0	Fluoranthene	170	U	81.6	170	ug/Kg
129-00-0	Pyrene	170	U	82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	170	U	96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	330	U	98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	170	U	80.6	170	ug/Kg
218-01-9	Chrysene	170	U	79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	330	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	U	81.0	170	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166335BL	SDG No.:	Q1207
Lab Sample ID:	PB166335BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141374.D	1	01/29/25 08:40	02/03/25 17:41	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	170	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	170	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	170	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	143		18 - 112	96%	SPK: 150
13127-88-3	Phenol-d6	140		15 - 107	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	100.0		18 - 107	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.4		20 - 109	98%	SPK: 100
118-79-6	2,4,6-Tribromophenol	158		10 - 116	105%	SPK: 150
1718-51-0	Terphenyl-d14	90.7		10 - 105	91%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	90900	6.792			
1146-65-2	Naphthalene-d8	365000	8.075			
15067-26-2	Acenaphthene-d10	206000	9.827			
1517-22-2	Phenanthrene-d10	373000	11.316			
1719-03-5	Chrysene-d12	290000	13.957			
1520-96-3	Perylene-d12	251000	15.404			
TENTATIVE IDENTIFIED COMPOUNDS						
004744-10-9	Propane, 1,1-dimethoxy-	150	J		2.18	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	70.6	A		5.02	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC			Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR			Date Received:	
Client Sample ID:	PB166335BL			SDG No.:	Q1207
Lab Sample ID:	PB166335BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141374.D	1	01/29/25 08:40	02/03/25 17:41	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166335BS	SDG No.:	Q1207
Lab Sample ID:	PB166335BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141303.D	1	01/29/25 08:40	01/30/25 09:57	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	J	180	330	ug/Kg
108-95-2	Phenol	1500		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1600		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1600		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		90.9	170	ug/Kg
98-86-2	Acetophenone	1500		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	170	ug/Kg
78-59-1	Isophorone	1600		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1500		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.5	170	ug/Kg
91-20-3	Naphthalene	1500		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	790		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.3	170	ug/Kg
105-60-2	Caprolactam	1600		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1500		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5800	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1600		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1500		81.7	170	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166335BS	SDG No.:	Q1207
Lab Sample ID:	PB166335BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141303.D	1	01/29/25 08:40	01/30/25 09:57	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	970		89.2	170	ug/Kg
83-32-9	Acenaphthene	1600		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3400	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3300	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1500		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.6	170	ug/Kg
86-73-7	Fluorene	1400		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		85.0	170	ug/Kg
1912-24-9	Atrazine	1600		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	3100	E	77.3	330	ug/Kg
85-01-8	Phenanthrene	1600		84.0	170	ug/Kg
120-12-7	Anthracene	1600		84.4	170	ug/Kg
86-74-8	Carbazole	1600		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.3	170	ug/Kg
206-44-0	Fluoranthene	1600		81.7	170	ug/Kg
129-00-0	Pyrene	1500		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	840		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		80.7	170	ug/Kg
218-01-9	Chrysene	1500		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		81.1	170	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166335BS	SDG No.:	Q1207
Lab Sample ID:	PB166335BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141303.D	1	01/29/25 08:40	01/30/25 09:57	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1300		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	128		18 - 112	85%	SPK: 150
13127-88-3	Phenol-d6	128		15 - 107	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.9		18 - 107	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.5		20 - 109	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		10 - 116	89%	SPK: 150
1718-51-0	Terphenyl-d14	88.2		10 - 105	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.798			
1146-65-2	Naphthalene-d8	578000	8.081			
15067-26-2	Acenaphthene-d10	315000	9.839			
1517-22-2	Phenanthrene-d10	527000	11.328			
1719-03-5	Chrysene-d12	325000	13.974			
1520-96-3	Perylene-d12	295000	15.451			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	WC-5MS	SDG No.:	Q1207
Lab Sample ID:	Q1209-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141315.D	1	01/29/25 08:40	01/30/25 16:03	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		120	220	ug/Kg
108-95-2	Phenol	880		56.2	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	870		56.7	120	ug/Kg
95-57-8	2-Chlorophenol	890		56.6	120	ug/Kg
95-48-7	2-Methylphenol	890		54.6	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	910		61.6	120	ug/Kg
98-86-2	Acetophenone	930		58.9	120	ug/Kg
65794-96-9	3+4-Methylphenols	840		54.1	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	850		27.3	54.2	ug/Kg
67-72-1	Hexachloroethane	840		56.3	120	ug/Kg
98-95-3	Nitrobenzene	830		61.5	120	ug/Kg
78-59-1	Isophorone	890		57.3	120	ug/Kg
88-75-5	2-Nitrophenol	890		64.1	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		63.2	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	870		58.2	120	ug/Kg
120-83-2	2,4-Dichlorophenol	870		51.2	120	ug/Kg
91-20-3	Naphthalene	830		56.0	120	ug/Kg
106-47-8	4-Chloroaniline	340		56.0	120	ug/Kg
87-68-3	Hexachlorobutadiene	820		56.5	120	ug/Kg
105-60-2	Caprolactam	970		58.8	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	890		52.5	120	ug/Kg
91-57-6	2-Methylnaphthalene	820		55.9	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3300	E	110	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	910		48.4	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	810		50.2	120	ug/Kg
92-52-4	1,1-Biphenyl	920		59.2	120	ug/Kg
91-58-7	2-Chloronaphthalene	820		56.5	120	ug/Kg
88-74-4	2-Nitroaniline	880		64.4	120	ug/Kg
131-11-3	Dimethylphthalate	860		55.4	120	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	WC-5MS	SDG No.:	Q1207
Lab Sample ID:	Q1209-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141315.D	1	01/29/25 08:40	01/30/25 16:03	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	910		58.6	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	820		56.4	120	ug/Kg
99-09-2	3-Nitroaniline	400		60.5	120	ug/Kg
83-32-9	Acenaphthene	940		55.0	120	ug/Kg
51-28-5	2,4-Dinitrophenol	2100	E	160	220	ug/Kg
100-02-7	4-Nitrophenol	2000	E	78.6	220	ug/Kg
132-64-9	Dibenzofuran	840		57.2	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	860		58.4	120	ug/Kg
84-66-2	Diethylphthalate	850		54.3	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	820		58.0	120	ug/Kg
86-73-7	Fluorene	830		58.0	120	ug/Kg
100-01-6	4-Nitroaniline	880		72.5	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1000		79.3	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	900		55.3	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	880		53.5	120	ug/Kg
118-74-1	Hexachlorobenzene	870		57.6	120	ug/Kg
1912-24-9	Atrazine	980		61.9	120	ug/Kg
87-86-5	Pentachlorophenol	1900	E	52.4	220	ug/Kg
85-01-8	Phenanthrene	890		56.9	120	ug/Kg
120-12-7	Anthracene	920		57.2	120	ug/Kg
86-74-8	Carbazole	910		54.4	120	ug/Kg
84-74-2	Di-n-butylphthalate	910		57.1	120	ug/Kg
206-44-0	Fluoranthene	870		55.4	120	ug/Kg
129-00-0	Pyrene	880		56.3	120	ug/Kg
85-68-7	Butylbenzylphthalate	1000		65.6	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	660		66.8	220	ug/Kg
56-55-3	Benzo(a)anthracene	830		54.7	120	ug/Kg
218-01-9	Chrysene	880		53.9	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	960		61.7	120	ug/Kg
117-84-0	Di-n-octyl phthalate	910		74.6	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	860		55.0	120	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	WC-5MS	SDG No.:	Q1207
Lab Sample ID:	Q1209-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141315.D	1	01/29/25 08:40	01/30/25 16:03	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	870		56.0	120	ug/Kg
50-32-8	Benzo(a)pyrene	950		63.0	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1000		52.9	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000		55.0	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	940		54.3	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	910		58.8	120	ug/Kg
123-91-1	1,4-Dioxane	870		74.6	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	910		50.6	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	88.1		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	88.4		15 - 107	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.6		18 - 107	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.4		20 - 109	57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.3		10 - 116	62%	SPK: 150
1718-51-0	Terphenyl-d14	65.2		10 - 105	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	167000	6.798			
1146-65-2	Naphthalene-d8	670000	8.081			
15067-26-2	Acenaphthene-d10	361000	9.839			
1517-22-2	Phenanthrene-d10	590000	11.328			
1719-03-5	Chrysene-d12	319000	13.974			
1520-96-3	Perylene-d12	316000	15.445			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	WC-5MSD	SDG No.:	Q1207
Lab Sample ID:	Q1209-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
Sample Wt/Vol:	50.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141316.D	1	01/29/25 08:40	01/30/25 16:30	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1200		120	220	ug/Kg
108-95-2	Phenol	900		56.2	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	880		56.7	120	ug/Kg
95-57-8	2-Chlorophenol	920		56.6	120	ug/Kg
95-48-7	2-Methylphenol	900		54.6	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	930		61.6	120	ug/Kg
98-86-2	Acetophenone	960		58.9	120	ug/Kg
65794-96-9	3+4-Methylphenols	850		54.1	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	880		27.3	54.2	ug/Kg
67-72-1	Hexachloroethane	870		56.3	120	ug/Kg
98-95-3	Nitrobenzene	840		61.6	120	ug/Kg
78-59-1	Isophorone	910		57.4	120	ug/Kg
88-75-5	2-Nitrophenol	920		64.1	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		63.2	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	890		58.2	120	ug/Kg
120-83-2	2,4-Dichlorophenol	890		51.2	120	ug/Kg
91-20-3	Naphthalene	840		56.0	120	ug/Kg
106-47-8	4-Chloroaniline	320		56.0	120	ug/Kg
87-68-3	Hexachlorobutadiene	830		56.5	120	ug/Kg
105-60-2	Caprolactam	970		58.8	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	900		52.5	120	ug/Kg
91-57-6	2-Methylnaphthalene	840		55.9	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3500	E	110	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	960		48.4	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	850		50.2	120	ug/Kg
92-52-4	1,1-Biphenyl	960		59.3	120	ug/Kg
91-58-7	2-Chloronaphthalene	850		56.5	120	ug/Kg
88-74-4	2-Nitroaniline	940		64.4	120	ug/Kg
131-11-3	Dimethylphthalate	890		55.4	120	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	WC-5MSD	SDG No.:	Q1207
Lab Sample ID:	Q1209-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
Sample Wt/Vol:	50.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141316.D	1	01/29/25 08:40	01/30/25 16:30	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	940		58.6	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	860		56.4	120	ug/Kg
99-09-2	3-Nitroaniline	410		60.5	120	ug/Kg
83-32-9	Acenaphthene	980		55.0	120	ug/Kg
51-28-5	2,4-Dinitrophenol	2200	E	160	220	ug/Kg
100-02-7	4-Nitrophenol	2100	E	78.6	220	ug/Kg
132-64-9	Dibenzofuran	870		57.2	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	890		58.4	120	ug/Kg
84-66-2	Diethylphthalate	880		54.3	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	850		58.0	120	ug/Kg
86-73-7	Fluorene	860		58.0	120	ug/Kg
100-01-6	4-Nitroaniline	910		72.5	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1100		79.3	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	920		55.3	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	910		53.5	120	ug/Kg
118-74-1	Hexachlorobenzene	880		57.6	120	ug/Kg
1912-24-9	Atrazine	1000		62.0	120	ug/Kg
87-86-5	Pentachlorophenol	1900	E	52.4	220	ug/Kg
85-01-8	Phenanthrene	910		56.9	120	ug/Kg
120-12-7	Anthracene	940		57.2	120	ug/Kg
86-74-8	Carbazole	930		54.4	120	ug/Kg
84-74-2	Di-n-butylphthalate	930		57.1	120	ug/Kg
206-44-0	Fluoranthene	910		55.4	120	ug/Kg
129-00-0	Pyrene	900		56.3	120	ug/Kg
85-68-7	Butylbenzylphthalate	1000		65.6	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	700		66.8	220	ug/Kg
56-55-3	Benzo(a)anthracene	890		54.7	120	ug/Kg
218-01-9	Chrysene	890		53.9	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1000		61.7	120	ug/Kg
117-84-0	Di-n-octyl phthalate	950		74.6	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	950		55.0	120	ug/Kg

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	WC-5MSD	SDG No.:	Q1207
Lab Sample ID:	Q1209-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
Sample Wt/Vol:	50.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141316.D	1	01/29/25 08:40	01/30/25 16:30	PB166335

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	850		56.0	120	ug/Kg
50-32-8	Benzo(a)pyrene	980		63.0	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1000		52.9	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000		55.0	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	960		54.3	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	950		58.8	120	ug/Kg
123-91-1	1,4-Dioxane	870		74.6	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	950		50.6	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	89.7		18 - 112	60%	SPK: 150
13127-88-3	Phenol-d6	90.9		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	63.3		18 - 107	63%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.4		20 - 109	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	97.4		10 - 116	65%	SPK: 150
1718-51-0	Terphenyl-d14	66.2		10 - 105	66%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	167000	6.798			
1146-65-2	Naphthalene-d8	670000	8.081			
15067-26-2	Acenaphthene-d10	356000	9.839			
1517-22-2	Phenanthrene-d10	589000	11.328			
1719-03-5	Chrysene-d12	326000	13.974			
1520-96-3	Perylene-d12	311000	15.457			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141290.D 5 =BF141291.D 10 =BF141292.D 20 =BF141293.D 40 =BF141294.D 50 =BF141295.D 60 =BF141296.D 80 =BF1412
97.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.600	0.603	0.597	0.538	0.574	0.569	0.530	0.573	5.19
3)		Pyridine		1.364	1.410	1.450	1.320	1.394	1.404	1.322	1.380	3.46
4)		n-Nitrosodimet...		0.770	0.789	0.824	0.751	0.803	0.813	0.771	0.789	3.32
5)	S	2-Fluorophenol		1.428	1.391	1.402	1.201	1.267	1.268	1.163	1.303	8.03
6)		Aniline		1.480	1.511	1.542	1.359	1.404	1.350	1.174	1.403	8.93
7)	S	Phenol-d6		1.841	1.800	1.743	1.520	1.611	1.611	1.475	1.657	8.47
8)		2-Chlorophenol		1.535	1.510	1.487	1.297	1.353	1.355	1.237	1.396	8.24
9)		Benzaldehyde		1.166	1.130	1.104	0.895	0.861	0.837	0.727	0.960	17.81
10)	C	Phenol		1.938	1.879	1.884	1.643	1.696	1.704	1.554	1.757	8.22
11)		bis(2-Chloroet...		1.478	1.413	1.426	1.232	1.299	1.329	1.253	1.347	6.93
12)		1,3-Dichlorobe...		1.697	1.668	1.648	1.429	1.499	1.474	1.362	1.540	8.49
13)	C	1,4-Dichlorobe...		1.719	1.663	1.659	1.432	1.502	1.487	1.365	1.547	8.66
14)		1,2-Dichlorobe...		1.629	1.609	1.565	1.338	1.392	1.366	1.240	1.448	10.46
15)		Benzyl Alcohol		1.138	1.201	1.216	1.082	1.137	1.125	1.028	1.133	5.72
16)		2,2'-oxybis(1-...		2.533	2.484	2.495	2.189	2.296	2.287	2.112	2.342	7.01
17)		2-Methylphenol		1.237	1.175	1.210	1.042	1.107	1.120	1.053	1.135	6.62
18)		Hexachloroethane		0.609	0.612	0.610	0.530	0.560	0.561	0.513	0.571	7.09
19)	P	n-Nitroso-di-n...	1.084	1.052	1.060	1.032	0.895	0.936	0.945	0.874	0.985	8.27
20)		3+4-Methylphenols		1.561	1.564	1.502	1.287	1.331	1.323	1.186	1.393	10.65
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.547	0.523	0.517	0.436	0.449	0.443	0.412	0.475	11.06
23)	S	Nitrobenzene-d5		0.405	0.396	0.406	0.354	0.373	0.373	0.349	0.379	6.14
24)		Nitrobenzene		0.418	0.411	0.420	0.371	0.385	0.389	0.358	0.393	6.14
25)		Isophorone		0.698	0.685	0.694	0.611	0.640	0.648	0.615	0.656	5.62
26)	C	2-Nitrophenol		0.176	0.187	0.199	0.177	0.189	0.191	0.179	0.185	4.66
27)		2,4-Dimethylph...		0.244	0.239	0.249	0.224	0.235	0.238	0.223	0.236	4.12
28)		bis(2-Chloroet...		0.454	0.440	0.445	0.389	0.405	0.411	0.384	0.418	6.70
29)	C	2,4-Dichloroph...		0.307	0.300	0.312	0.271	0.284	0.286	0.262	0.289	6.39
30)		1,2,4-Trichlor...		0.372	0.354	0.354	0.304	0.318	0.316	0.292	0.330	9.11
31)		Naphthalene		1.193	1.145	1.140	0.976	1.020	1.002	0.919	1.057	9.72
32)		Benzoic acid		0.140	0.178	0.238	0.221	0.241	0.259	0.242	0.217	19.59
33)		4-Chloroaniline		0.382	0.378	0.391	0.338	0.351	0.349	0.318	0.358	7.38
34)	C	Hexachlorobuta...		0.209	0.207	0.209	0.179	0.190	0.187	0.174	0.194	7.52
35)		Caprolactam		0.097	0.095	0.102	0.089	0.094	0.096	0.089	0.094	4.89
36)	C	4-Chloro-3-met...		0.328	0.328	0.334	0.287	0.301	0.307	0.283	0.310	6.71
37)		2-Methylnaphth...		0.755	0.732	0.724	0.624	0.643	0.639	0.583	0.672	9.68
38)		1-Methylnaphth...		0.757	0.723	0.711	0.606	0.625	0.623	0.573	0.660	10.56

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012925.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.615	0.613	0.603	0.534	0.555	0.551	0.512	0.569	7.25
41)	P	Hexachlorocycl...	0.136	0.157	0.174	0.172	0.182	0.181	0.174	0.168	9.69
42)	S	2,4,6-Tribromo...	0.198	0.198	0.198	0.173	0.175	0.179	0.163	0.183	7.98
43)	C	2,4,6-Trichlor...	0.381	0.380	0.390	0.364	0.375	0.369	0.347	0.372	3.79
44)		2,4,5-Trichlor...	0.429	0.425	0.429	0.377	0.391	0.403	0.383	0.405	5.50
45)	S	2-Fluorobiphenyl	1.597	1.464	1.398	1.184	1.202	1.168	1.083	1.299	14.48
46)		1,1'-Biphenyl	1.810	1.692	1.650	1.454	1.492	1.460	1.360	1.560	10.27
47)		2-Chloronaphth...	1.396	1.310	1.290	1.122	1.159	1.156	1.077	1.216	9.59
48)		2-Nitroaniline	0.386	0.389	0.407	0.364	0.382	0.385	0.364	0.382	3.91
49)		Acenaphthylene	1.921	1.854	1.815	1.595	1.620	1.612	1.495	1.702	9.38
50)		Dimethylphthalate	1.498	1.456	1.445	1.239	1.299	1.296	1.223	1.351	8.34
51)		2,6-Dinitrotol...	0.333	0.331	0.333	0.296	0.304	0.309	0.290	0.314	5.90
52)	C	Acenaphthene	1.361	1.300	1.291	1.128	1.170	1.180	1.079	1.216	8.46
53)		3-Nitroaniline	0.321	0.330	0.341	0.303	0.293	0.298	0.264	0.307	8.44
54)	P	2,4-Dinitrophenol		0.102	0.136	0.147	0.156	0.169	0.164	0.146	16.81
55)		Dibenzofuran	1.869	1.788	1.755	1.518	1.525	1.539	1.398	1.627	10.72
56)	P	4-Nitrophenol	0.187	0.215	0.251	0.224	0.231	0.244	0.222	0.225	9.21
57)		2,4-Dinitrotol...	0.424	0.431	0.443	0.386	0.392	0.404	0.362	0.406	7.03
58)		Fluorene	1.512	1.410	1.353	1.167	1.164	1.172	1.059	1.262	12.96
59)		2,3,4,6-Tetrac...	0.325	0.343	0.341	0.304	0.305	0.324	0.291	0.319	6.11
60)		Diethylphthalate	1.470	1.417	1.412	1.225	1.238	1.260	1.146	1.310	9.32
61)		4-Chlorophenyl...	0.738	0.694	0.659	0.567	0.565	0.571	0.522	0.617	13.04
62)		4-Nitroaniline	0.297	0.312	0.330	0.290	0.294	0.311	0.281	0.302	5.45
63)		Azobenzene	1.464	1.411	1.390	1.224	1.249	1.276	1.162	1.311	8.51
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.105	0.122	0.125	0.131	0.134	0.131	0.118	16.29
66)	c	n-Nitrosodiphe...	0.716	0.684	0.674	0.626	0.622	0.614	0.593	0.647	6.89
67)		4-Bromophenyl-...	0.235	0.234	0.234	0.217	0.218	0.220	0.210	0.224	4.57
68)		Hexachlorobenzene	0.257	0.250	0.248	0.229	0.229	0.232	0.217	0.238	6.07
69)		Atrazine	0.211	0.202	0.213	0.213	0.215	0.235	0.224	0.216	4.86
70)	C	Pentachlorophenol	0.112	0.136	0.146	0.143	0.146	0.149	0.141	0.139	9.08
71)		Phenanthrene	1.233	1.170	1.142	1.025	1.008	1.010	0.937	1.075	9.96
72)		Anthracene	1.179	1.146	1.120	1.009	0.999	0.996	0.924	1.053	9.00
73)		Carbazole	1.019	1.014	1.021	0.899	0.878	0.900	0.807	0.934	9.04
74)		Di-n-butylphth...	1.244	1.239	1.245	1.086	1.051	1.081	0.978	1.132	9.65
75)	C	Fluoranthene	1.195	1.202	1.196	1.013	0.963	0.982	0.880	1.062	12.57
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.882	0.480	0.210	0.730	0.906	0.724	0.556	0.641	38.34
78)		Pyrene	2.178	2.063	2.002	1.754	1.870	1.898	1.674	1.920	9.14
79)	S	Terphenyl-d14	1.543	1.411	1.370	1.183	1.238	1.230	1.103	1.297	11.68
80)		Butylbenzylpht...	0.686	0.690	0.739	0.626	0.657	0.688	0.610	0.671	6.49
81)		Benzo(a)anthra...	1.532	1.410	1.453	1.270	1.375	1.355	1.265	1.380	6.96
82)		3,3'-Dichlorob...	0.412	0.422	0.427	0.418	0.478	0.466	0.449	0.439	5.82
83)		Chrysene	1.332	1.325	1.342	1.136	1.267	1.243	1.210	1.265	5.98
84)		Bis(2-ethylhex...	0.882	0.903	0.956	0.785	0.831	0.834	0.764	0.851	7.93
85)	c	Di-n-octyl pht...	1.194	1.267	1.438	1.230	1.365	1.406	1.352	1.321	6.98

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012925.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.217	1.268	1.337	1.257	1.348	1.322	1.287	1.291	3.67
88)		Benzo(b)fluora...	1.358	1.382	1.328	1.120	1.265	1.218	1.136	1.258	8.33
89)		Benzo(k)fluora...	1.167	1.114	1.274	1.083	1.049	1.060	1.054	1.114	7.32
90)	C	Benzo(a)pyrene	1.118	1.059	1.131	1.011	1.061	1.051	1.010	1.063	4.44
91)		Dibenzo(a,h)an...	0.966	1.001	1.101	1.016	1.087	1.071	1.028	1.039	4.73
92)		Benzo(g,h,i)pe...	1.011	1.075	1.139	1.043	1.123	1.105	1.063	1.080	4.22

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: BNA_F Calibration Date/Time: 01/30/2025 08:54

Lab File ID: BF141301.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.303	1.194		-8.4	
Benzaldehyde	0.960	0.852		-11.3	
Phenol-d6	1.657	1.545		-6.8	
Phenol	1.757	1.657		-5.7	20.0
bis(2-Chloroethyl)ether	1.347	1.242		-7.8	
2-Chlorophenol	1.396	1.317		-5.7	
2-Methylphenol	1.135	1.057		-6.9	
2,2-oxybis(1-Chloropropane)	2.342	2.216		-5.4	
Acetophenone	0.475	0.435		-8.4	
3+4-Methylphenols	1.393	1.298		-6.8	
n-Nitroso-di-n-propylamine	0.985	0.911	0.050	-7.5	
Nitrobenzene-d5	0.379	0.356		-6.1	
Hexachloroethane	0.571	0.533		-6.7	
Nitrobenzene	0.393	0.370		-5.9	
Isophorone	0.656	0.621		-5.3	
2-Nitrophenol	0.185	0.177		-4.3	20.0
2,4-Dimethylphenol	0.236	0.227		-3.8	
bis(2-Chloroethoxy)methane	0.418	0.394		-5.7	
2,4-Dichlorophenol	0.289	0.273		-5.5	20.0
Naphthalene	1.057	0.980		-7.3	
4-Chloroaniline	0.358	0.341		-4.7	
Hexachlorobutadiene	0.194	0.181		-6.7	20.0
Caprolactam	0.094	0.091		-3.2	
4-Chloro-3-methylphenol	0.310	0.295		-4.8	20.0
2-Methylnaphthalene	0.672	0.622		-7.4	
Hexachlorocyclopentadiene	0.168	0.172	0.050	2.4	
2,4,6-Trichlorophenol	0.372	0.361		-3.0	20.0
2-Fluorobiphenyl	1.299	1.166		-10.2	
2,4,5-Trichlorophenol	0.405	0.374		-7.7	
1,1-Biphenyl	1.560	1.444		-7.4	
2-Chloronaphthalene	1.216	1.115		-8.3	
2-Nitroaniline	0.382	0.364		-4.7	
Dimethylphthalate	1.351	1.260		-6.7	
Acenaphthylene	1.702	1.594		-6.3	
2,6-Dinitrotoluene	0.314	0.293		-6.7	
3-Nitroaniline	0.307	0.296		-3.6	
Acenaphthene	1.216	1.130		-7.1	20.0
2,4-Dinitrophenol	0.146	0.139	0.050	-4.8	
4-Nitrophenol	0.225	0.221	0.050	-1.8	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: BNA_F Calibration Date/Time: 01/30/2025 08:54

Lab File ID: BF141301.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.627	1.502		-7.7	
2,4-Dinitrotoluene	0.406	0.387		-4.7	
Diethylphthalate	1.310	1.217		-7.1	
4-Chlorophenyl-phenylether	0.617	0.568		-7.9	
Fluorene	1.262	1.151		-8.8	
4-Nitroaniline	0.302	0.294		-2.6	
4,6-Dinitro-2-methylphenol	0.118	0.123		4.2	
n-Nitrosodiphenylamine	0.647	0.610		-5.7	20.0
2,4,6-Tribromophenol	0.183	0.174		-4.9	
4-Bromophenyl-phenylether	0.224	0.216		-3.6	
Hexachlorobenzene	0.238	0.229		-3.8	
Atrazine	0.216	0.194		-10.2	
Pentachlorophenol	0.139	0.142		2.2	20.0
Phenanthrene	1.075	1.008		-6.2	
Anthracene	1.053	0.988		-6.2	
Carbazole	0.934	0.889		-4.8	
Di-n-butylphthalate	1.132	1.094		-3.4	
Fluoranthene	1.062	1.005		-5.4	20.0
Pyrene	1.920	1.777		-7.4	
Terphenyl-d14	1.297	1.185		-8.6	
Butylbenzylphthalate	0.671	0.641		-4.5	
3,3-Dichlorobenzidine	0.439	0.407		-7.3	
Benzo(a)anthracene	1.380	1.214		-12.0	
Chrysene	1.265	1.188		-6.1	
Bis(2-ethylhexyl)phthalate	0.851	0.798		-6.2	
Di-n-octyl phthalate	1.321	1.218		-7.8	20.0
Benzo(b)fluoranthene	1.258	1.162		-7.6	
Benzo(k)fluoranthene	1.114	1.056		-5.2	
Benzo(a)pyrene	1.063	1.010		-5.0	20.0
Indeno(1,2,3-cd)pyrene	1.291	1.200		-7.0	
Dibenzo(a,h)anthracene	1.039	0.965		-7.1	
Benzo(g,h,i)perylene	1.080	0.995		-7.9	
1,2,4,5-Tetrachlorobenzene	0.569	0.533		-6.3	
1,4-Dioxane	0.573	0.542		-5.4	20.0
2,3,4,6-Tetrachlorophenol	0.319	0.312		-2.2	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: BNA_F Calibration Date/Time: 02/03/2025 17:14

Lab File ID: BF141373.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.303	1.302		-0.1	
Benzaldehyde	0.960	1.038		8.1	
Phenol-d6	1.657	1.598		-3.6	
Phenol	1.757	1.694		-3.6	20.0
bis(2-Chloroethyl)ether	1.347	1.310		-2.7	
2-Chlorophenol	1.396	1.391		-0.4	
2-Methylphenol	1.135	1.109		-2.3	
2,2-oxybis(1-Chloropropane)	2.342	2.192		-6.4	
Acetophenone	0.475	0.486		2.3	
3+4-Methylphenols	1.393	1.420		1.9	
n-Nitroso-di-n-propylamine	0.985	0.981	0.050	-0.4	
Nitrobenzene-d5	0.379	0.382		0.8	
Hexachloroethane	0.571	0.590		3.3	
Nitrobenzene	0.393	0.389		-1.0	
Isophorone	0.656	0.653		-0.5	
2-Nitrophenol	0.185	0.188		1.6	20.0
2,4-Dimethylphenol	0.236	0.237		0.4	
bis(2-Chloroethoxy)methane	0.418	0.408		-2.4	
2,4-Dichlorophenol	0.289	0.293		1.4	20.0
Naphthalene	1.057	1.046		-1.0	
4-Chloroaniline	0.358	0.293		-18.2	
Hexachlorobutadiene	0.194	0.204		5.2	20.0
Caprolactam	0.094	0.096		2.1	
4-Chloro-3-methylphenol	0.310	0.318		2.6	20.0
2-Methylnaphthalene	0.672	0.672		0.0	
Hexachlorocyclopentadiene	0.168	0.186	0.050	10.7	
2,4,6-Trichlorophenol	0.372	0.380		2.2	20.0
2-Fluorobiphenyl	1.299	1.292		-0.5	
2,4,5-Trichlorophenol	0.405	0.413		2.0	
1,1-Biphenyl	1.560	1.536		-1.5	
2-Chloronaphthalene	1.216	1.196		-1.6	
2-Nitroaniline	0.382	0.388		1.6	
Dimethylphthalate	1.351	1.357		0.4	
Acenaphthylene	1.702	1.683		-1.1	
2,6-Dinitrotoluene	0.314	0.315		0.3	
3-Nitroaniline	0.307	0.310		1.0	
Acenaphthene	1.216	1.226		0.8	20.0
2,4-Dinitrophenol	0.146	0.170	0.050	16.4	
4-Nitrophenol	0.225	0.235	0.050	4.4	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: BNA_F Calibration Date/Time: 02/03/2025 17:14

Lab File ID: BF141373.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.627	1.608		-1.2	
2,4-Dinitrotoluene	0.406	0.423		4.2	
Diethylphthalate	1.310	1.346		2.7	
4-Chlorophenyl-phenylether	0.617	0.621		0.6	
Fluorene	1.262	1.286		1.9	
4-Nitroaniline	0.302	0.327		8.3	
4,6-Dinitro-2-methylphenol	0.118	0.140		18.6	
n-Nitrosodiphenylamine	0.647	0.642		-0.8	20.0
2,4,6-Tribromophenol	0.183	0.194		6.0	
4-Bromophenyl-phenylether	0.224	0.234		4.5	
Hexachlorobenzene	0.238	0.244		2.5	
Atrazine	0.216	0.216		0.0	
Pentachlorophenol	0.139	0.157		12.9	20.0
Phenanthrene	1.075	1.095		1.9	
Anthracene	1.053	1.082		2.8	
Carbazole	0.934	0.977		4.6	
Di-n-butylphthalate	1.132	1.197		5.7	
Fluoranthene	1.062	1.123		5.7	20.0
Pyrene	1.920	1.838		-4.3	
Terphenyl-d14	1.297	1.274		-1.8	
Butylbenzylphthalate	0.671	0.703		4.8	
3,3-Dichlorobenzidine	0.439	0.424		-3.4	
Benzo(a)anthracene	1.380	1.292		-6.4	
Chrysene	1.265	1.240		-2.0	
Bis(2-ethylhexyl)phthalate	0.851	0.932		9.5	
Di-n-octyl phthalate	1.321	1.473		11.5	20.0
Benzo(b)fluoranthene	1.258	1.234		-1.9	
Benzo(k)fluoranthene	1.114	1.155		3.7	
Benzo(a)pyrene	1.063	1.088		2.4	20.0
Indeno(1,2,3-cd)pyrene	1.291	1.353		4.8	
Dibenzo(a,h)anthracene	1.039	1.102		6.1	
Benzo(g,h,i)perylene	1.080	1.119		3.6	
1,2,4,5-Tetrachlorobenzene	0.569	0.571		0.4	
1,4-Dioxane	0.573	0.582		1.6	20.0
2,3,4,6-Tetrachlorophenol	0.319	0.336		5.3	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: BNA_F Calibration Date/Time: 02/05/2025 15:16

Lab File ID: BF141447.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.303	1.309		0.5	
Benzaldehyde	0.960	1.065		10.9	
Phenol-d6	1.657	1.599		-3.5	
Phenol	1.757	1.692		-3.7	20.0
bis(2-Chloroethyl)ether	1.347	1.250		-7.2	
2-Chlorophenol	1.396	1.375		-1.5	
2-Methylphenol	1.135	1.070		-5.7	
2,2-oxybis(1-Chloropropane)	2.342	2.062		-12.0	
Acetophenone	0.475	0.495		4.2	
3+4-Methylphenols	1.393	1.393		0.0	
n-Nitroso-di-n-propylamine	0.985	0.936	0.050	-5.0	
Nitrobenzene-d5	0.379	0.401		5.8	
Hexachloroethane	0.571	0.587		2.8	
Nitrobenzene	0.393	0.410		4.3	
Isophorone	0.656	0.639		-2.6	
2-Nitrophenol	0.185	0.192		3.8	20.0
2,4-Dimethylphenol	0.236	0.229		-3.0	
bis(2-Chloroethoxy)methane	0.418	0.394		-5.7	
2,4-Dichlorophenol	0.289	0.299		3.5	20.0
Naphthalene	1.057	1.071		1.3	
4-Chloroaniline	0.358	0.310		-13.4	
Hexachlorobutadiene	0.194	0.212		9.3	20.0
Caprolactam	0.094	0.093		-1.1	
4-Chloro-3-methylphenol	0.310	0.324		4.5	20.0
2-Methylnaphthalene	0.672	0.677		0.7	
Hexachlorocyclopentadiene	0.168	0.169	0.050	0.6	
2,4,6-Trichlorophenol	0.372	0.384		3.2	20.0
2-Fluorobiphenyl	1.299	1.332		2.5	
2,4,5-Trichlorophenol	0.405	0.414		2.2	
1,1-Biphenyl	1.560	1.541		-1.2	
2-Chloronaphthalene	1.216	1.206		-0.8	
2-Nitroaniline	0.382	0.407		6.5	
Dimethylphthalate	1.351	1.366		1.1	
Acenaphthylene	1.702	1.722		1.2	
2,6-Dinitrotoluene	0.314	0.321		2.2	
3-Nitroaniline	0.307	0.312		1.6	
Acenaphthene	1.216	1.253		3.0	20.0
2,4-Dinitrophenol	0.146	0.168	0.050	15.1	
4-Nitrophenol	0.225	0.235	0.050	4.4	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: BNA_F Calibration Date/Time: 02/05/2025 15:16

Lab File ID: BF141447.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.627	1.652		1.5	
2,4-Dinitrotoluene	0.406	0.439		8.1	
Diethylphthalate	1.310	1.335		1.9	
4-Chlorophenyl-phenylether	0.617	0.647		4.9	
Fluorene	1.262	1.315		4.2	
4-Nitroaniline	0.302	0.331		9.6	
4,6-Dinitro-2-methylphenol	0.118	0.139		17.8	
n-Nitrosodiphenylamine	0.647	0.640		-1.1	20.0
2,4,6-Tribromophenol	0.183	0.203		10.9	
4-Bromophenyl-phenylether	0.224	0.230		2.7	
Hexachlorobenzene	0.238	0.245		2.9	
Atrazine	0.216	0.205		-5.1	
Pentachlorophenol	0.139	0.152		9.4	20.0
Phenanthrene	1.075	1.125		4.7	
Anthracene	1.053	1.105		4.9	
Carbazole	0.934	1.005		7.6	
Di-n-butylphthalate	1.132	1.175		3.8	
Fluoranthene	1.062	1.201		13.1	20.0
Pyrene	1.920	1.896		-1.3	
Terphenyl-d14	1.297	1.301		0.3	
Butylbenzylphthalate	0.671	0.684		1.9	
3,3-Dichlorobenzidine	0.439	0.417		-5.0	
Benzo(a)anthracene	1.380	1.336		-3.2	
Chrysene	1.265	1.238		-2.1	
Bis(2-ethylhexyl)phthalate	0.851	0.857		0.7	
Di-n-octyl phthalate	1.321	1.226		-7.2	20.0
Benzo(b)fluoranthene	1.258	1.311		4.2	
Benzo(k)fluoranthene	1.114	1.155		3.7	
Benzo(a)pyrene	1.063	1.108		4.2	20.0
Indeno(1,2,3-cd)pyrene	1.291	1.316		1.9	
Dibenzo(a,h)anthracene	1.039	1.048		0.9	
Benzo(g,h,i)perylene	1.080	1.092		1.1	
1,2,4,5-Tetrachlorobenzene	0.569	0.580		1.9	
1,4-Dioxane	0.573	0.522		-8.9	20.0
2,3,4,6-Tetrachlorophenol	0.319	0.343		7.5	

All other compounds must meet a minimum RRF of 0.010.