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

LAB CHRONICLE

OrderID:	Q2529	**OrderDate:**	7/8/2025 3:36:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	**TP-91**	**SOIL**			**07/03/25**			**07/08/25**
			SVOC-TCL BNA -20	8270E		07/09/25	07/10/25	
Q2529-02	**TP-80**	**SOIL**			**07/07/25**			**07/08/25**
			SVOC-TCL BNA -20	8270E		07/09/25	07/16/25	
Q2529-03	**TP-79**	**SOIL**			**07/07/25**			**07/08/25**
			SVOC-TCL BNA -20	8270E		07/09/25	07/10/25	
Q2529-04	**TP-95**	**SOIL**			**07/07/25**			**07/08/25**
			SVOC-TCL BNA -20	8270E		07/09/25	07/10/25	
Q2529-05	**TP-98**	**SOIL**			**07/07/25**			**07/08/25**
			SVOC-TCL BNA -20	8270E		07/09/25	07/10/25	
Q2529-06	**TP-102**	**SOIL**			**07/07/25**			**07/08/25**
			SVOC-TCL BNA -20	8270E		07/09/25	07/09/25	
Q2529-07	**TP-101**	**SOIL**			**07/07/25**			**07/08/25**
			SVOC-TCL BNA -20	8270E		07/09/25	07/09/25	
Q2529-08	**TP-89**	**SOIL**			**07/08/25**			**07/08/25**
			SVOC-TCL BNA -20	8270E		07/09/25	07/10/25	
Q2529-09	**TP-33**	**SOIL**			**07/08/25**			**07/08/25**
			SVOC-TCL BNA -20	8270E		07/09/25	07/10/25	
Q2529-10	**TP-30**	**SOIL**			**07/08/25**			**07/08/25**
			SVOC-TCL BNA -20	8270E		07/09/25	07/10/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2529

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-91									
Q2529-01	TP-91	SOIL	Fluoranthene		200.000		33	190	ug/Kg
Q2529-01	TP-91	SOIL	Pyrene		170.000	J	39.6	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(a)anthracene		100.000	J	25.3	190	ug/Kg
Q2529-01	TP-91	SOIL	Chrysene		130.000	J	21.9	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(b)fluoranthene		190.000		20.9	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(a)pyrene		120.000	JQ	32.4	190	ug/Kg
Q2529-01	TP-91	SOIL	Indeno(1,2,3-cd)pyrene		77.700	JQ	32	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(g,h,i)perylene		82.800	J	28.2	190	ug/Kg
			Total Svoc :		**1,070.50**				
Q2529-01	TP-91	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	130.000	AB	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Benzo[e]pyrene	*	110.000	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Benzophenone	*	120.000	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Cyclopentadecane	*	81.000	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	n-Hexadecanoic acid	*	96.700	J	0	0	ug/Kg
			Total Tics :		**537.70**				
			Total Concentration:		**1,608.20**				
Client ID : TP-80									
Q2529-02	TP-80	SOIL	Acenaphthylene		200.000	Q	31.8	190	ug/Kg
Q2529-02	TP-80	SOIL	Phenanthrene		160.000	J	23	190	ug/Kg
Q2529-02	TP-80	SOIL	Anthracene		87.700	JQ	36.6	190	ug/Kg
Q2529-02	TP-80	SOIL	Fluoranthene		540.000		33	190	ug/Kg
Q2529-02	TP-80	SOIL	Pyrene		510.000		39.6	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(a)anthracene		280.000		25.3	190	ug/Kg
Q2529-02	TP-80	SOIL	Chrysene		340.000		21.9	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(b)fluoranthene		550.000		20.9	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(k)fluoranthene		180.000	J	24.6	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(a)pyrene		350.000	Q	32.5	190	ug/Kg
Q2529-02	TP-80	SOIL	Indeno(1,2,3-cd)pyrene		280.000	Q	32	190	ug/Kg
Q2529-02	TP-80	SOIL	Dibenzo(a,h)anthracene		80.300	J	30.1	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(g,h,i)perylene		310.000		28.3	190	ug/Kg
			Total Svoc :		**3,868.00**				
Q2529-02	TP-80	SOIL	11H-Benzo[a]fluoren-11-one	*	100.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	1-Heneicosanol	*	120.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	140.000	AB	0	0	ug/Kg
Q2529-02	TP-80	SOIL	7H-Benz[de]anthracen-7-one	*	82.500	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Benzo[e]pyrene	*	320.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Benzophenone	*	130.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2529

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2529-02	TP-80	SOIL	Cyclopenta(def)phenanthrenone	*	78.500	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	n-Hexadecanoic acid	*	280.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Phenanthrene, 1-methyl-	*	120.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Phenanthrene, 2,5-dimethyl-	*	140.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Pyrene, 1-methyl-	*	99.400	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	unknown21.089	*	140.000	J	0	0	ug/Kg
			Total Tics :		**1,750.40**				
			Total Concentration:		**5,618.40**				
Client ID :	**TP-79**								
Q2529-03	TP-79	SOIL	1,2-Dihydro-3-hydroxy-2-oxo-4,6	*	480.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	1-Dodecanethiol	*	89.200	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	1-Heneicosanol	*	230.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2529-03	TP-79	SOIL	Benzophenone	*	280.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	Butane, 2-methoxy-2-methyl-	*	640.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	n-Hexadecanoic acid	*	1,200.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	Octadecanoic acid	*	6,700.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	Pentadecanoic acid	*	360.000	J	0	0	ug/Kg
			Total Tics :		**10,249.20**				
			Total Concentration:		**10,249.20**				
Client ID :	**TP-95**								
Q2529-04	TP-95	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	160.000	AB	0	0	ug/Kg
Q2529-04	TP-95	SOIL	Benzophenone	*	140.000	J	0	0	ug/Kg
Q2529-04	TP-95	SOIL	n-Hexadecanoic acid	*	130.000	J	0	0	ug/Kg
			Total Tics :		**430.00**				
			Total Concentration:		**430.00**				
Client ID :	**TP-98**								
Q2529-05	TP-98	SOIL	1-Hexacosene	*	81.300	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	170.000	AB	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Benzophenone	*	120.000	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Butane, 2-methoxy-2-methyl-	*	450.000	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	n-Hexadecanoic acid	*	190.000	J	0	0	ug/Kg
			Total Tics :		**1,011.30**				
			Total Concentration:		**1,011.30**				
Client ID :	**TP-102**								
Q2529-06	TP-102	SOIL	1-Octadecanesulphonyl chloride	*	1,300.000	J	0	0	ug/Kg
Q2529-06	TP-102	SOIL	o-Terphenyl	*	1,700.000	J	0	0	ug/Kg
			Total Tics :		**3,000.00**				

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Hit Summary Sheet
SW-846

SDG No.: Q2529

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		**3,000.00**				
Client ID :	**TP-101**								
Q2529-07	TP-101	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	180.000	AB	0	0	ug/Kg
Q2529-07	TP-101	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
			Total Tics :		**380.00**				
			Total Concentration:		**380.00**				
Client ID :	**TP-89**								
Q2529-08	TP-89	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2529-08	TP-89	SOIL	Benzophenone	*	260.000	J	0	0	ug/Kg
Q2529-08	TP-89	SOIL	Butane, 2-methoxy-2-methyl-	*	560.000	J	0	0	ug/Kg
Q2529-08	TP-89	SOIL	n-Hexadecanoic acid	*	160.000	J	0	0	ug/Kg
Q2529-08	TP-89	SOIL	Octacosanol	*	85.300	J	0	0	ug/Kg
			Total Tics :		**1,335.30**				
			Total Concentration:		**1,335.30**				
Client ID :	**TP-33**								
Q2529-09	TP-33	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	180.000	AB	0	0	ug/Kg
Q2529-09	TP-33	SOIL	Benzophenone	*	230.000	J	0	0	ug/Kg
Q2529-09	TP-33	SOIL	Butane, 2-methoxy-2-methyl-	*	420.000	J	0	0	ug/Kg
Q2529-09	TP-33	SOIL	n-Hexadecanoic acid	*	93.000	J	0	0	ug/Kg
			Total Tics :		**923.00**				
			Total Concentration:		**923.00**				
Client ID :	**TP-30**								
Q2529-10	TP-30	SOIL	1-Heneicosanol	*	99.100	J	0	0	ug/Kg
Q2529-10	TP-30	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	170.000	AB	0	0	ug/Kg
Q2529-10	TP-30	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg
Q2529-10	TP-30	SOIL	n-Hexadecanoic acid	*	130.000	J	0	0	ug/Kg
			Total Tics :		**649.10**				
			Total Concentration:		**649.10**				

SAMPLE DATA

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

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.9
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
BP025090.D	1	07/09/25 08:55	07/10/25 19:44	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.3	U	24.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.7	U	26.7	190	ug/Kg
95-57-8	2-Chlorophenol	26.8	U	26.8	190	ug/Kg
95-48-7	2-Methylphenol	32.9	U	32.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.2	U	41.2	190	ug/Kg
98-86-2	Acetophenone	32.4	U	32.4	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.2	U	45.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.1	U	52.1	87.9	ug/Kg
67-72-1	Hexachloroethane	19.3	U	19.3	190	ug/Kg
98-95-3	Nitrobenzene	20.1	U	20.1	190	ug/Kg
78-59-1	Isophorone	36.0	UQ	36.0	190	ug/Kg
88-75-5	2-Nitrophenol	64.0	U	64.0	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.2	U	71.2	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.8	U	33.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.1	U	31.1	190	ug/Kg
91-20-3	Naphthalene	24.9	U	24.9	190	ug/Kg
106-47-8	4-Chloroaniline	38.9	U	38.9	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.8	U	27.8	190	ug/Kg
105-60-2	Caprolactam	57.3	U	57.3	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.5	U	31.5	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.1	U	28.1	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	UQ	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.0	UQ	32.0	190	ug/Kg
92-52-4	1,1-Biphenyl	24.0	U	24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.7	U	24.7	190	ug/Kg
88-74-4	2-Nitroaniline	52.9	U	52.9	190	ug/Kg
131-11-3	Dimethylphthalate	29.8	U	29.8	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.9
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
BP025090.D	1	07/09/25 08:55	07/10/25 19:44	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.8	UQ	31.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.9	UQ	36.9	190	ug/Kg
99-09-2	3-Nitroaniline	50.6	U	50.6	190	ug/Kg
83-32-9	Acenaphthene	23.4	U	23.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.9	U	24.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.1	U	55.1	190	ug/Kg
84-66-2	Diethylphthalate	31.1	U	31.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.3	U	29.3	190	ug/Kg
86-73-7	Fluorene	27.8	U	27.8	190	ug/Kg
100-01-6	4-Nitroaniline	70.6	UQ	70.6	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.2	UQ	36.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.6	U	30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	27.8	UQ	27.8	190	ug/Kg
1912-24-9	Atrazine	37.4	U	37.4	190	ug/Kg
87-86-5	Pentachlorophenol	56.4	UQ	56.4	360	ug/Kg
85-01-8	Phenanthrene	23.0	U	23.0	190	ug/Kg
120-12-7	Anthracene	36.6	UQ	36.6	190	ug/Kg
86-74-8	Carbazole	34.3	UQ	34.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.6	UQ	52.6	190	ug/Kg
206-44-0	Fluoranthene	200		33.0	190	ug/Kg
129-00-0	Pyrene	170	J	39.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.5	U	78.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.3	U	40.3	360	ug/Kg
56-55-3	Benzo(a)anthracene	100	J	25.3	190	ug/Kg
218-01-9	Chrysene	130	J	21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.1	U	65.1	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.4	U	95.4	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	190		20.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.9
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
BP025090.D	1	07/09/25 08:55	07/10/25 19:44	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.6	U	24.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	120	JQ	32.4	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	77.7	JQ	32.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.1	U	30.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	82.8	J	28.2	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.1	U	28.1	190	ug/Kg
123-91-1	1,4-Dioxane	49.7	U	49.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.1	U	30.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	69.7		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	70.0		15 - 107	47%	SPK: 150
4165-60-0	Nitrobenzene-d5	49.5		18 - 107	49%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.0		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.7		10 - 116	52%	SPK: 150
1718-51-0	Terphenyl-d14	49.6		10 - 105	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	533000	7.443			
1146-65-2	Naphthalene-d8	2130000	10.184			
15067-26-2	Acenaphthene-d10	1360000	14.084			
1517-22-2	Phenanthrene-d10	2770000	16.901			
1719-03-5	Chrysene-d12	3120000	21.336			
1520-96-3	Perylene-d12	3250000	24.483			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	130	AB		4.66	ug/Kg
000119-61-9	Benzophenone	120	J		15.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	96.7	J		17.9	ug/Kg
000295-48-7	Cyclopentadecane	81.0	J		21.1	ug/Kg
000192-97-2	Benzo[e]pyrene	110	J		24.2	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/03/25
Project:	South River WM Replacement			Date Received:	07/08/25
Client Sample ID:	TP-91			SDG No.:	Q2529
Lab Sample ID:	Q2529-01			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	90.9
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
BP025090.D	1	07/09/25 08:55	07/10/25 19:44	PB168767

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:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.06 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
BP025162.D	1	07/09/25 08:55	07/16/25 17:36	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.3	U	24.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.7	U	26.7	190	ug/Kg
95-57-8	2-Chlorophenol	26.8	U	26.8	190	ug/Kg
95-48-7	2-Methylphenol	32.9	U	32.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.3	U	41.3	190	ug/Kg
98-86-2	Acetophenone	32.5	U	32.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.2	U	45.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.2	U	52.2	88.0	ug/Kg
67-72-1	Hexachloroethane	19.4	U	19.4	190	ug/Kg
98-95-3	Nitrobenzene	20.1	U	20.1	190	ug/Kg
78-59-1	Isophorone	36.1	UQ	36.1	190	ug/Kg
88-75-5	2-Nitrophenol	64.0	U	64.0	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.3	U	71.3	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.9	U	33.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.1	U	31.1	190	ug/Kg
91-20-3	Naphthalene	25.0	U	25.0	190	ug/Kg
106-47-8	4-Chloroaniline	39.0	U	39.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.8	U	27.8	190	ug/Kg
105-60-2	Caprolactam	57.3	U	57.3	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.6	U	31.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.2	U	28.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	UQ	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.0	UQ	32.0	190	ug/Kg
92-52-4	1,1-Biphenyl	24.0	U	24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.8	U	24.8	190	ug/Kg
88-74-4	2-Nitroaniline	52.9	U	52.9	190	ug/Kg
131-11-3	Dimethylphthalate	29.8	U	29.8	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.06 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
BP025162.D	1	07/09/25 08:55	07/16/25 17:36	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	200	Q	31.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.0	UQ	37.0	190	ug/Kg
99-09-2	3-Nitroaniline	50.6	U	50.6	190	ug/Kg
83-32-9	Acenaphthene	23.4	U	23.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	25.0	U	25.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.1	U	55.1	190	ug/Kg
84-66-2	Diethylphthalate	31.1	U	31.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.4	U	29.4	190	ug/Kg
86-73-7	Fluorene	27.8	U	27.8	190	ug/Kg
100-01-6	4-Nitroaniline	70.6	UQ	70.6	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.2	UQ	36.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.6	U	30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	27.8	UQ	27.8	190	ug/Kg
1912-24-9	Atrazine	37.4	U	37.4	190	ug/Kg
87-86-5	Pentachlorophenol	56.4	UQ	56.4	360	ug/Kg
85-01-8	Phenanthrene	160	J	23.0	190	ug/Kg
120-12-7	Anthracene	87.7	JQ	36.6	190	ug/Kg
86-74-8	Carbazole	34.3	UQ	34.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.7	UQ	52.7	190	ug/Kg
206-44-0	Fluoranthene	540		33.0	190	ug/Kg
129-00-0	Pyrene	510		39.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.6	U	78.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.4	U	40.4	360	ug/Kg
56-55-3	Benzo(a)anthracene	280		25.3	190	ug/Kg
218-01-9	Chrysene	340		21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.1	U	65.1	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.5	U	95.5	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	550		20.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.06 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
BP025162.D	1	07/09/25 08:55	07/16/25 17:36	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	180	J	24.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	350	Q	32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	280	Q	32.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	80.3	J	30.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	310		28.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.2	U	28.2	190	ug/Kg
123-91-1	1,4-Dioxane	49.7	U	49.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.1	U	30.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	67.9		18 - 112	45%	SPK: 150
13127-88-3	Phenol-d6	64.6		15 - 107	43%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.6		18 - 107	49%	SPK: 100
321-60-8	2-Fluorobiphenyl	43.7		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.9		10 - 116	57%	SPK: 150
1718-51-0	Terphenyl-d14	51.0		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	577000	7.437			
1146-65-2	Naphthalene-d8	2200000	10.19			
15067-26-2	Acenaphthene-d10	1360000	14.101			
1517-22-2	Phenanthrene-d10	2580000	16.925			
1719-03-5	Chrysene-d12	2700000	21.354			
1520-96-3	Perylene-d12	3270000	24.483			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	140	AB		4.66	ug/Kg
000119-61-9	Benzophenone	130	J		15.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	280	J		17.9	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	120	J		18.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	140	J		18.8	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	78.5	J		18.9	ug/Kg
002381-21-7	Pyrene, 1-methyl-	99.4	J		20.1	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/07/25
Project:	South River WM Replacement			Date Received:	07/08/25
Client Sample ID:	TP-80			SDG No.:	Q2529
Lab Sample ID:	Q2529-02			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	90.7
Sample Wt/Vol:	30.06	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
BP025162.D	1	07/09/25 08:55	07/16/25 17:36	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000479-79-8	11H-Benzo[a]fluoren-11-one	100	J		20.8	ug/Kg
000082-05-3	7H-Benz[de]anthracen-7-one	82.5	J		20.9	ug/Kg
	unknown21.089	140	J		21.1	ug/Kg
015594-90-8	1-Heneicosanol	120	J		22.3	ug/Kg
000192-97-2	Benzo[e]pyrene	320	J		24.2	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:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
Sample Wt/Vol:	30.08 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
BM050390.D	1	07/09/25 08:55	07/10/25 15:17	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.3	U	24.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.7	U	26.7	190	ug/Kg
95-57-8	2-Chlorophenol	26.9	U	26.9	190	ug/Kg
95-48-7	2-Methylphenol	32.9	U	32.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.3	U	41.3	190	ug/Kg
98-86-2	Acetophenone	32.5	U	32.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.2	U	45.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.2	U	52.2	88.1	ug/Kg
67-72-1	Hexachloroethane	19.4	U	19.4	190	ug/Kg
98-95-3	Nitrobenzene	20.1	U	20.1	190	ug/Kg
78-59-1	Isophorone	36.1	UQ	36.1	190	ug/Kg
88-75-5	2-Nitrophenol	64.1	U	64.1	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.3	U	71.3	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.9	U	33.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.2	U	31.2	190	ug/Kg
91-20-3	Naphthalene	25.0	U	25.0	190	ug/Kg
106-47-8	4-Chloroaniline	39.0	U	39.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.9	U	27.9	190	ug/Kg
105-60-2	Caprolactam	57.4	U	57.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.6	U	31.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.2	U	28.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	UQ	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.0	UQ	32.0	190	ug/Kg
92-52-4	1,1-Biphenyl	24.0	U	24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.8	U	24.8	190	ug/Kg
88-74-4	2-Nitroaniline	52.9	U	52.9	190	ug/Kg
131-11-3	Dimethylphthalate	29.8	U	29.8	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
Sample Wt/Vol:	30.08 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
BM050390.D	1	07/09/25 08:55	07/10/25 15:17	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.8	UQ	31.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.0	UQ	37.0	190	ug/Kg
99-09-2	3-Nitroaniline	50.6	U	50.6	190	ug/Kg
83-32-9	Acenaphthene	23.4	U	23.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	25.0	U	25.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.2	U	55.2	190	ug/Kg
84-66-2	Diethylphthalate	31.2	U	31.2	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.4	U	29.4	190	ug/Kg
86-73-7	Fluorene	27.9	U	27.9	190	ug/Kg
100-01-6	4-Nitroaniline	70.7	UQ	70.7	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.2	UQ	36.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.6	U	30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	27.9	UQ	27.9	190	ug/Kg
1912-24-9	Atrazine	37.4	U	37.4	190	ug/Kg
87-86-5	Pentachlorophenol	56.5	UQ	56.5	360	ug/Kg
85-01-8	Phenanthrene	23.0	U	23.0	190	ug/Kg
120-12-7	Anthracene	36.7	UQ	36.7	190	ug/Kg
86-74-8	Carbazole	34.3	UQ	34.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.7	UQ	52.7	190	ug/Kg
206-44-0	Fluoranthene	33.0	U	33.0	190	ug/Kg
129-00-0	Pyrene	39.6	U	39.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.6	U	78.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.4	U	40.4	360	ug/Kg
56-55-3	Benzo(a)anthracene	25.3	U	25.3	190	ug/Kg
218-01-9	Chrysene	21.9	U	21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.2	U	65.2	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.6	U	95.6	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.9	U	20.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
Sample Wt/Vol:	30.08 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
BM050390.D	1	07/09/25 08:55	07/10/25 15:17	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.7	U	24.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.5	UQ	32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.0	UQ	32.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.2	U	30.2	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.3	U	28.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.2	U	28.2	190	ug/Kg
123-91-1	1,4-Dioxane	49.8	U	49.8	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.2	U	30.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	127		18 - 112	85%	SPK: 150
13127-88-3	Phenol-d6	131		15 - 107	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.3		18 - 107	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.1		20 - 109	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	160		10 - 116	106%	SPK: 150
1718-51-0	Terphenyl-d14	80.4		10 - 105	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	494000	7.863			
1146-65-2	Naphthalene-d8	1810000	10.657			
15067-26-2	Acenaphthene-d10	1160000	14.492			
1517-22-2	Phenanthrene-d10	2510000	17.221			
1719-03-5	Chrysene-d12	2690000	21.45			
1520-96-3	Perylene-d12	2770000	24.491			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	640	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		4.97	ug/Kg
020928-64-7	1,2-Dihydro-3-hydroxy-2-oxo-4,6-bi	480	J		15.7	ug/Kg
000119-61-9	Benzophenone	280	J		15.8	ug/Kg
000057-11-4	Octadecanoic acid	6700	J		16.2	ug/Kg
000057-10-3	n-Hexadecanoic acid	1200	J		18.1	ug/Kg
000112-55-0	1-Dodecanethiol	89.2	J		19.3	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/07/25
Project:	South River WM Replacement			Date Received:	07/08/25
Client Sample ID:	TP-79			SDG No.:	Q2529
Lab Sample ID:	Q2529-03			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	90.6
Sample Wt/Vol:	30.08	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
BM050390.D	1	07/09/25 08:55	07/10/25 15:17	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
001002-84-2	Pentadecanoic acid	360	J		19.4	ug/Kg
015594-90-8	1-Heneicosanol	230	J		21.1	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:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BP025089.D	1	07/09/25 08:55	07/10/25 19:03	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	390	ug/Kg
108-95-2	Phenol	26.4	U	26.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.0	U	29.0	200	ug/Kg
95-57-8	2-Chlorophenol	29.1	U	29.1	200	ug/Kg
95-48-7	2-Methylphenol	35.7	U	35.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.7	U	44.7	200	ug/Kg
98-86-2	Acetophenone	35.2	U	35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.0	U	49.0	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.5	U	56.5	95.4	ug/Kg
67-72-1	Hexachloroethane	21.0	U	21.0	200	ug/Kg
98-95-3	Nitrobenzene	21.8	U	21.8	200	ug/Kg
78-59-1	Isophorone	39.1	UQ	39.1	200	ug/Kg
88-75-5	2-Nitrophenol	69.4	U	69.4	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.3	U	77.3	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.7	U	36.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.8	U	33.8	200	ug/Kg
91-20-3	Naphthalene	27.1	U	27.1	200	ug/Kg
106-47-8	4-Chloroaniline	42.2	U	42.2	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.2	U	30.2	200	ug/Kg
105-60-2	Caprolactam	62.1	U	62.1	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.2	U	34.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.5	U	30.5	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	UQ	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.6	UQ	23.6	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.7	UQ	34.7	200	ug/Kg
92-52-4	1,1-Biphenyl	26.0	U	26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.8	U	26.8	200	ug/Kg
88-74-4	2-Nitroaniline	57.4	U	57.4	200	ug/Kg
131-11-3	Dimethylphthalate	32.3	U	32.3	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BP025089.D	1	07/09/25 08:55	07/10/25 19:03	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.5	UQ	34.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.1	UQ	40.1	200	ug/Kg
99-09-2	3-Nitroaniline	54.9	U	54.9	200	ug/Kg
83-32-9	Acenaphthene	25.4	U	25.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	27.1	U	27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.8	U	59.8	200	ug/Kg
84-66-2	Diethylphthalate	33.8	U	33.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.8	U	31.8	200	ug/Kg
86-73-7	Fluorene	30.2	U	30.2	200	ug/Kg
100-01-6	4-Nitroaniline	76.6	UQ	76.6	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.2	UQ	39.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.2	U	33.2	200	ug/Kg
118-74-1	Hexachlorobenzene	30.2	UQ	30.2	200	ug/Kg
1912-24-9	Atrazine	40.6	U	40.6	200	ug/Kg
87-86-5	Pentachlorophenol	61.2	UQ	61.2	390	ug/Kg
85-01-8	Phenanthrene	24.9	U	24.9	200	ug/Kg
120-12-7	Anthracene	39.7	UQ	39.7	200	ug/Kg
86-74-8	Carbazole	37.2	UQ	37.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.1	UQ	57.1	200	ug/Kg
206-44-0	Fluoranthene	35.8	U	35.8	200	ug/Kg
129-00-0	Pyrene	42.9	U	42.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.2	U	85.2	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.8	U	43.8	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.4	U	27.4	200	ug/Kg
218-01-9	Chrysene	23.7	U	23.7	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.6	U	70.6	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.7	U	22.7	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BP025089.D	1	07/09/25 08:55	07/10/25 19:03	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.7	U	26.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.2	UQ	35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.7	UQ	34.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.7	U	32.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.7	U	30.7	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.5	U	30.5	200	ug/Kg
123-91-1	1,4-Dioxane	53.9	U	53.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.7	U	32.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.0		18 - 112	51%	SPK: 150
13127-88-3	Phenol-d6	75.7		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.9		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.7		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.6		10 - 116	56%	SPK: 150
1718-51-0	Terphenyl-d14	49.7		10 - 105	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	552000	7.443			
1146-65-2	Naphthalene-d8	2210000	10.19			
15067-26-2	Acenaphthene-d10	1400000	14.095			
1517-22-2	Phenanthrene-d10	2850000	16.913			
1719-03-5	Chrysene-d12	3150000	21.324			
1520-96-3	Perylene-d12	3310000	24.46			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	160	AB		4.66	ug/Kg
000119-61-9	Benzophenone	140	J		15.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J		17.9	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/07/25
Project:	South River WM Replacement			Date Received:	07/08/25
Client Sample ID:	TP-95			SDG No.:	Q2529
Lab Sample ID:	Q2529-04			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	83.7
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
BP025089.D	1	07/09/25 08:55	07/10/25 19:03	PB168767

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:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.9
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
BM050391.D	1	07/09/25 08:55	07/10/25 15:57	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.4	U	25.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.0	U	28.0	200	ug/Kg
95-57-8	2-Chlorophenol	28.1	U	28.1	200	ug/Kg
95-48-7	2-Methylphenol	34.4	U	34.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.1	U	43.1	200	ug/Kg
98-86-2	Acetophenone	33.9	U	33.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.3	U	47.3	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.5	U	54.5	92.0	ug/Kg
67-72-1	Hexachloroethane	20.2	U	20.2	200	ug/Kg
98-95-3	Nitrobenzene	21.1	U	21.1	200	ug/Kg
78-59-1	Isophorone	37.7	UQ	37.7	200	ug/Kg
88-75-5	2-Nitrophenol	67.0	U	67.0	200	ug/Kg
105-67-9	2,4-Dimethylphenol	74.5	U	74.5	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.4	U	35.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.6	U	32.6	200	ug/Kg
91-20-3	Naphthalene	26.1	U	26.1	200	ug/Kg
106-47-8	4-Chloroaniline	40.7	U	40.7	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.1	U	29.1	200	ug/Kg
105-60-2	Caprolactam	59.9	U	59.9	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.0	U	33.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.4	U	29.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.8	UQ	22.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.5	UQ	33.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.1	U	25.1	200	ug/Kg
91-58-7	2-Chloronaphthalene	25.9	U	25.9	200	ug/Kg
88-74-4	2-Nitroaniline	55.3	U	55.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.2	U	31.2	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.9
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
BM050391.D	1	07/09/25 08:55	07/10/25 15:57	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.2	UQ	33.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.7	UQ	38.7	200	ug/Kg
99-09-2	3-Nitroaniline	52.9	U	52.9	200	ug/Kg
83-32-9	Acenaphthene	24.5	U	24.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.1	U	26.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.6	U	57.6	200	ug/Kg
84-66-2	Diethylphthalate	32.6	U	32.6	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.7	U	30.7	200	ug/Kg
86-73-7	Fluorene	29.1	U	29.1	200	ug/Kg
100-01-6	4-Nitroaniline	73.9	UQ	73.9	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.8	UQ	37.8	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.0	U	32.0	200	ug/Kg
118-74-1	Hexachlorobenzene	29.1	UQ	29.1	200	ug/Kg
1912-24-9	Atrazine	39.1	U	39.1	200	ug/Kg
87-86-5	Pentachlorophenol	59.0	UQ	59.0	380	ug/Kg
85-01-8	Phenanthrene	24.0	U	24.0	200	ug/Kg
120-12-7	Anthracene	38.3	UQ	38.3	200	ug/Kg
86-74-8	Carbazole	35.9	UQ	35.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.1	UQ	55.1	200	ug/Kg
206-44-0	Fluoranthene	34.5	U	34.5	200	ug/Kg
129-00-0	Pyrene	41.4	U	41.4	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.1	U	82.1	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.2	U	42.2	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.5	U	26.5	200	ug/Kg
218-01-9	Chrysene	22.9	U	22.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.1	U	68.1	200	ug/Kg
117-84-0	Di-n-octyl phthalate	99.9	U	99.9	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.9	U	21.9	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.9
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
BM050391.D	1	07/09/25 08:55	07/10/25 15:57	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.8	U	25.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	33.9	UQ	33.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.5	UQ	33.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.5	U	31.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.6	U	29.6	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.4	U	29.4	200	ug/Kg
123-91-1	1,4-Dioxane	52.0	U	52.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.5	U	31.5	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	73.7		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	75.3		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.8		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.5		20 - 109	43%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.7		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	48.4		10 - 105	48%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	541000	7.863			
1146-65-2	Naphthalene-d8	1980000	10.657			
15067-26-2	Acenaphthene-d10	1260000	14.492			
1517-22-2	Phenanthrene-d10	2500000	17.227			
1719-03-5	Chrysene-d12	2660000	21.45			
1520-96-3	Perylene-d12	2650000	24.491			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	450	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	170	AB		4.97	ug/Kg
000119-61-9	Benzophenone	120	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	190	J		18.1	ug/Kg
018835-33-1	1-Hexacosene	81.3	J		21.1	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/07/25
Project:	South River WM Replacement			Date Received:	07/08/25
Client Sample ID:	TP-98			SDG No.:	Q2529
Lab Sample ID:	Q2529-05			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	86.9
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
BM050391.D	1	07/09/25 08:55	07/10/25 15:57	PB168767

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:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.6
Sample Wt/Vol:	30.04 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
BF143065.D	5	07/09/25 08:55	07/09/25 19:33	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	810	U	810	1700	ug/Kg
108-95-2	Phenol	120	U	120	890	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	130	U	130	890	ug/Kg
95-57-8	2-Chlorophenol	130	U	130	890	ug/Kg
95-48-7	2-Methylphenol	160	U	160	890	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	U	200	890	ug/Kg
98-86-2	Acetophenone	150	U	150	890	ug/Kg
65794-96-9	3+4-Methylphenols	210	U	210	1700	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	250	U	250	420	ug/Kg
67-72-1	Hexachloroethane	91.9	U	91.9	890	ug/Kg
98-95-3	Nitrobenzene	95.6	U	95.6	890	ug/Kg
78-59-1	Isophorone	170	UQ	170	890	ug/Kg
88-75-5	2-Nitrophenol	300	U	300	890	ug/Kg
105-67-9	2,4-Dimethylphenol	340	U	340	890	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	160	U	160	890	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	150	890	ug/Kg
91-20-3	Naphthalene	120	U	120	890	ug/Kg
106-47-8	4-Chloroaniline	180	U	180	890	ug/Kg
87-68-3	Hexachlorobutadiene	130	U	130	890	ug/Kg
105-60-2	Caprolactam	270	U	270	1700	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	150	890	ug/Kg
91-57-6	2-Methylnaphthalene	130	U	130	890	ug/Kg
77-47-4	Hexachlorocyclopentadiene	610	UQ	610	1700	ug/Kg
88-06-2	2,4,6-Trichlorophenol	100	UQ	100	890	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	UQ	150	890	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	890	ug/Kg
91-58-7	2-Chloronaphthalene	120	U	120	890	ug/Kg
88-74-4	2-Nitroaniline	250	U	250	890	ug/Kg
131-11-3	Dimethylphthalate	140	U	140	890	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.6
Sample Wt/Vol:	30.04 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
BF143065.D	5	07/09/25 08:55	07/09/25 19:33	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	UQ	150	890	ug/Kg
606-20-2	2,6-Dinitrotoluene	180	UQ	180	890	ug/Kg
99-09-2	3-Nitroaniline	240	U	240	890	ug/Kg
83-32-9	Acenaphthene	110	U	110	890	ug/Kg
51-28-5	2,4-Dinitrophenol	1200	U	1200	1700	ug/Kg
100-02-7	4-Nitrophenol	560	U	560	1700	ug/Kg
132-64-9	Dibenzofuran	120	U	120	890	ug/Kg
121-14-2	2,4-Dinitrotoluene	260	U	260	890	ug/Kg
84-66-2	Diethylphthalate	150	U	150	890	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	140	890	ug/Kg
86-73-7	Fluorene	130	U	130	890	ug/Kg
100-01-6	4-Nitroaniline	340	UQ	340	890	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	540	U	540	1700	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	UQ	170	890	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	150	890	ug/Kg
118-74-1	Hexachlorobenzene	130	UQ	130	890	ug/Kg
1912-24-9	Atrazine	180	U	180	890	ug/Kg
87-86-5	Pentachlorophenol	270	UQ	270	1700	ug/Kg
85-01-8	Phenanthrene	110	U	110	890	ug/Kg
120-12-7	Anthracene	170	UQ	170	890	ug/Kg
86-74-8	Carbazole	160	UQ	160	890	ug/Kg
84-74-2	Di-n-butylphthalate	250	UQ	250	890	ug/Kg
206-44-0	Fluoranthene	160	U	160	890	ug/Kg
129-00-0	Pyrene	190	U	190	890	ug/Kg
85-68-7	Butylbenzylphthalate	370	U	370	890	ug/Kg
91-94-1	3,3-Dichlorobenzidine	190	U	190	1700	ug/Kg
56-55-3	Benzo(a)anthracene	120	U	120	890	ug/Kg
218-01-9	Chrysene	100	U	100	890	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	310	U	310	890	ug/Kg
117-84-0	Di-n-octyl phthalate	450	U	450	1700	ug/Kg
205-99-2	Benzo(b)fluoranthene	99.2	U	99.2	890	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.6
Sample Wt/Vol:	30.04 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
BF143065.D	5	07/09/25 08:55	07/09/25 19:33	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	120	U	120	890	ug/Kg
50-32-8	Benzo(a)pyrene	150	UQ	150	890	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	UQ	150	890	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	140	890	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	U	130	890	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U	130	890	ug/Kg
123-91-1	1,4-Dioxane	240	U	240	890	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	140	890	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	60.5		18 - 112	40%	SPK: 150
13127-88-3	Phenol-d6	60.0		15 - 107	40%	SPK: 150
4165-60-0	Nitrobenzene-d5	38.3		18 - 107	38%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.0		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	44.1		10 - 116	29%	SPK: 150
1718-51-0	Terphenyl-d14	30.6		10 - 105	31%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	44600	6.869			
1146-65-2	Naphthalene-d8	163000	8.157			
15067-26-2	Acenaphthene-d10	74800	9.91			
1517-22-2	Phenanthrene-d10	115000	11.404			
1719-03-5	Chrysene-d12	121000	14.051			
1520-96-3	Perylene-d12	80000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000084-15-1	o-Terphenyl	1700	J		11.8	ug/Kg
1000342-70-4	1-Octadecanesulphonyl chloride	1300	J		12.5	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/07/25
Project:	South River WM Replacement			Date Received:	07/08/25
Client Sample ID:	TP-102			SDG No.:	Q2529
Lab Sample ID:	Q2529-06			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	95.6
Sample Wt/Vol:	30.04	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
BF143065.D	5	07/09/25 08:55	07/09/25 19:33	PB168767

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:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
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
BF143062.D	1	07/09/25 08:55	07/09/25 18:01	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	370	ug/Kg
108-95-2	Phenol	24.6	U	24.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.1	U	27.1	190	ug/Kg
95-57-8	2-Chlorophenol	27.2	U	27.2	190	ug/Kg
95-48-7	2-Methylphenol	33.3	U	33.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.8	U	41.8	190	ug/Kg
98-86-2	Acetophenone	32.9	U	32.9	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.8	U	45.8	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.8	U	52.8	89.1	ug/Kg
67-72-1	Hexachloroethane	19.6	U	19.6	190	ug/Kg
98-95-3	Nitrobenzene	20.4	U	20.4	190	ug/Kg
78-59-1	Isophorone	36.5	UQ	36.5	190	ug/Kg
88-75-5	2-Nitrophenol	64.8	U	64.8	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.2	U	72.2	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.3	U	34.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.5	U	31.5	190	ug/Kg
91-20-3	Naphthalene	25.3	U	25.3	190	ug/Kg
106-47-8	4-Chloroaniline	39.4	U	39.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.2	U	28.2	190	ug/Kg
105-60-2	Caprolactam	58.0	U	58.0	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.0	U	32.0	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.5	U	28.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.1	UQ	22.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.4	UQ	32.4	190	ug/Kg
92-52-4	1,1-Biphenyl	24.3	U	24.3	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.1	U	25.1	190	ug/Kg
88-74-4	2-Nitroaniline	53.6	U	53.6	190	ug/Kg
131-11-3	Dimethylphthalate	30.2	U	30.2	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
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
BF143062.D	1	07/09/25 08:55	07/09/25 18:01	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.2	UQ	32.2	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.4	UQ	37.4	190	ug/Kg
99-09-2	3-Nitroaniline	51.2	U	51.2	190	ug/Kg
83-32-9	Acenaphthene	23.7	U	23.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.3	U	25.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.8	U	55.8	190	ug/Kg
84-66-2	Diethylphthalate	31.5	U	31.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.7	U	29.7	190	ug/Kg
86-73-7	Fluorene	28.2	U	28.2	190	ug/Kg
100-01-6	4-Nitroaniline	71.5	UQ	71.5	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.7	UQ	36.7	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.0	U	31.0	190	ug/Kg
118-74-1	Hexachlorobenzene	28.2	UQ	28.2	190	ug/Kg
1912-24-9	Atrazine	37.9	U	37.9	190	ug/Kg
87-86-5	Pentachlorophenol	57.2	UQ	57.2	370	ug/Kg
85-01-8	Phenanthrene	23.3	U	23.3	190	ug/Kg
120-12-7	Anthracene	37.1	UQ	37.1	190	ug/Kg
86-74-8	Carbazole	34.8	UQ	34.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.4	UQ	53.4	190	ug/Kg
206-44-0	Fluoranthene	33.4	U	33.4	190	ug/Kg
129-00-0	Pyrene	40.1	U	40.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	79.5	U	79.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.9	U	40.9	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.6	U	25.6	190	ug/Kg
218-01-9	Chrysene	22.2	U	22.2	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.0	U	66.0	190	ug/Kg
117-84-0	Di-n-octyl phthalate	96.7	U	96.7	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.2	U	21.2	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
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
BF143062.D	1	07/09/25 08:55	07/09/25 18:01	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.0	U	25.0	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.9	UQ	32.9	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.4	UQ	32.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.5	U	30.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.6	U	28.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.5	U	28.5	190	ug/Kg
123-91-1	1,4-Dioxane	50.4	U	50.4	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.5	U	30.5	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	75.3		18 - 112	50%	SPK: 150
13127-88-3	Phenol-d6	77.8		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.0		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.5		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	53.9		10 - 116	36%	SPK: 150
1718-51-0	Terphenyl-d14	37.8		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	47300	6.869			
1146-65-2	Naphthalene-d8	174000	8.157			
15067-26-2	Acenaphthene-d10	90400	9.91			
1517-22-2	Phenanthrene-d10	138000	11.404			
1719-03-5	Chrysene-d12	102000	14.051			
1520-96-3	Perylene-d12	114000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	180	AB		5.08	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
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
BF143062.D	1	07/09/25 08:55	07/09/25 18:01	PB168767

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:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.1
Sample Wt/Vol:	30.06 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
BM050392.D	1	07/09/25 08:55	07/10/25 16:37	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	370	ug/Kg
108-95-2	Phenol	24.5	U	24.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.9	U	26.9	190	ug/Kg
95-57-8	2-Chlorophenol	27.0	U	27.0	190	ug/Kg
95-48-7	2-Methylphenol	33.1	U	33.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.5	U	41.5	190	ug/Kg
98-86-2	Acetophenone	32.7	U	32.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.5	U	45.5	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.5	U	52.5	88.6	ug/Kg
67-72-1	Hexachloroethane	19.5	U	19.5	190	ug/Kg
98-95-3	Nitrobenzene	20.3	U	20.3	190	ug/Kg
78-59-1	Isophorone	36.3	UQ	36.3	190	ug/Kg
88-75-5	2-Nitrophenol	64.5	U	64.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.8	U	71.8	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.1	U	34.1	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.3	U	31.3	190	ug/Kg
91-20-3	Naphthalene	25.1	U	25.1	190	ug/Kg
106-47-8	4-Chloroaniline	39.2	U	39.2	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.0	U	28.0	190	ug/Kg
105-60-2	Caprolactam	57.7	U	57.7	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.8	U	31.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.4	U	28.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.9	UQ	21.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.2	UQ	32.2	190	ug/Kg
92-52-4	1,1-Biphenyl	24.1	U	24.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.9	U	24.9	190	ug/Kg
88-74-4	2-Nitroaniline	53.3	U	53.3	190	ug/Kg
131-11-3	Dimethylphthalate	30.0	U	30.0	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.1
Sample Wt/Vol:	30.06 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
BM050392.D	1	07/09/25 08:55	07/10/25 16:37	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.0	UQ	32.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.2	UQ	37.2	190	ug/Kg
99-09-2	3-Nitroaniline	51.0	U	51.0	190	ug/Kg
83-32-9	Acenaphthene	23.6	U	23.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.1	U	25.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.5	U	55.5	190	ug/Kg
84-66-2	Diethylphthalate	31.3	U	31.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.6	U	29.6	190	ug/Kg
86-73-7	Fluorene	28.0	U	28.0	190	ug/Kg
100-01-6	4-Nitroaniline	71.1	UQ	71.1	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.4	UQ	36.4	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.8	U	30.8	190	ug/Kg
118-74-1	Hexachlorobenzene	28.0	UQ	28.0	190	ug/Kg
1912-24-9	Atrazine	37.7	U	37.7	190	ug/Kg
87-86-5	Pentachlorophenol	56.8	UQ	56.8	370	ug/Kg
85-01-8	Phenanthrene	23.2	U	23.2	190	ug/Kg
120-12-7	Anthracene	36.9	UQ	36.9	190	ug/Kg
86-74-8	Carbazole	34.6	UQ	34.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.1	UQ	53.1	190	ug/Kg
206-44-0	Fluoranthene	33.2	U	33.2	190	ug/Kg
129-00-0	Pyrene	39.9	U	39.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	79.1	U	79.1	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.7	U	40.7	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.5	U	25.5	190	ug/Kg
218-01-9	Chrysene	22.0	U	22.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.6	U	65.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	96.1	U	96.1	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.0	U	21.0	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.1
Sample Wt/Vol:	30.06 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
BM050392.D	1	07/09/25 08:55	07/10/25 16:37	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.8	U	24.8	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.7	UQ	32.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.2	UQ	32.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.4	U	30.4	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.5	U	28.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.4	U	28.4	190	ug/Kg
123-91-1	1,4-Dioxane	50.1	U	50.1	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.4	U	30.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	125		18 - 112	83%	SPK: 150
13127-88-3	Phenol-d6	127		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.3		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.0		20 - 109	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	147		10 - 116	98%	SPK: 150
1718-51-0	Terphenyl-d14	82.8		10 - 105	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	535000	7.863			
1146-65-2	Naphthalene-d8	1950000	10.657			
15067-26-2	Acenaphthene-d10	1230000	14.492			
1517-22-2	Phenanthrene-d10	2480000	17.227			
1719-03-5	Chrysene-d12	2460000	21.45			
1520-96-3	Perylene-d12	2320000	24.491			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	560	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		4.97	ug/Kg
000119-61-9	Benzophenone	260	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	160	J		18.1	ug/Kg
000557-61-9	Octacosanol	85.3	J		21.1	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/08/25
Project:	South River WM Replacement			Date Received:	07/08/25
Client Sample ID:	TP-89			SDG No.:	Q2529
Lab Sample ID:	Q2529-08			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	90.1
Sample Wt/Vol:	30.06	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
BM050392.D	1	07/09/25 08:55	07/10/25 16:37	PB168767

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:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
Sample Wt/Vol:	30.07 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
BM050393.D	1	07/09/25 08:55	07/10/25 17:18	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.4	U	24.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.8	U	26.8	190	ug/Kg
95-57-8	2-Chlorophenol	26.9	U	26.9	190	ug/Kg
95-48-7	2-Methylphenol	33.0	U	33.0	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.3	U	41.3	190	ug/Kg
98-86-2	Acetophenone	32.5	U	32.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.3	U	45.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.3	U	52.3	88.2	ug/Kg
67-72-1	Hexachloroethane	19.4	U	19.4	190	ug/Kg
98-95-3	Nitrobenzene	20.2	U	20.2	190	ug/Kg
78-59-1	Isophorone	36.2	UQ	36.2	190	ug/Kg
88-75-5	2-Nitrophenol	64.2	U	64.2	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.4	U	71.4	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.0	U	34.0	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.2	U	31.2	190	ug/Kg
91-20-3	Naphthalene	25.0	U	25.0	190	ug/Kg
106-47-8	4-Chloroaniline	39.0	U	39.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.9	U	27.9	190	ug/Kg
105-60-2	Caprolactam	57.4	U	57.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.6	U	31.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.2	U	28.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	UQ	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.1	UQ	32.1	190	ug/Kg
92-52-4	1,1-Biphenyl	24.0	U	24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.8	U	24.8	190	ug/Kg
88-74-4	2-Nitroaniline	53.0	U	53.0	190	ug/Kg
131-11-3	Dimethylphthalate	29.9	U	29.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
Sample Wt/Vol:	30.07 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
BM050393.D	1	07/09/25 08:55	07/10/25 17:18	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.9	UQ	31.9	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.0	UQ	37.0	190	ug/Kg
99-09-2	3-Nitroaniline	50.7	U	50.7	190	ug/Kg
83-32-9	Acenaphthene	23.5	U	23.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	25.0	U	25.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.2	U	55.2	190	ug/Kg
84-66-2	Diethylphthalate	31.2	U	31.2	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.4	U	29.4	190	ug/Kg
86-73-7	Fluorene	27.9	U	27.9	190	ug/Kg
100-01-6	4-Nitroaniline	70.8	UQ	70.8	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.3	UQ	36.3	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.6	U	30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	27.9	UQ	27.9	190	ug/Kg
1912-24-9	Atrazine	37.5	U	37.5	190	ug/Kg
87-86-5	Pentachlorophenol	56.6	UQ	56.6	360	ug/Kg
85-01-8	Phenanthrene	23.0	U	23.0	190	ug/Kg
120-12-7	Anthracene	36.7	UQ	36.7	190	ug/Kg
86-74-8	Carbazole	34.4	UQ	34.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.8	UQ	52.8	190	ug/Kg
206-44-0	Fluoranthene	33.1	U	33.1	190	ug/Kg
129-00-0	Pyrene	39.7	U	39.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.7	U	78.7	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.5	U	40.5	360	ug/Kg
56-55-3	Benzo(a)anthracene	25.4	U	25.4	190	ug/Kg
218-01-9	Chrysene	21.9	U	21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.3	U	65.3	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.7	U	95.7	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.9	U	20.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
Sample Wt/Vol:	30.07 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
BM050393.D	1	07/09/25 08:55	07/10/25 17:18	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.7	U	24.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.5	UQ	32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.1	UQ	32.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.2	U	30.2	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.3	U	28.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.2	U	28.2	190	ug/Kg
123-91-1	1,4-Dioxane	49.8	U	49.8	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.2	U	30.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.0		18 - 112	60%	SPK: 150
13127-88-3	Phenol-d6	90.7		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.1		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.8		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	97.0		10 - 116	65%	SPK: 150
1718-51-0	Terphenyl-d14	63.0		10 - 105	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	509000	7.863			
1146-65-2	Naphthalene-d8	1850000	10.657			
15067-26-2	Acenaphthene-d10	1190000	14.492			
1517-22-2	Phenanthrene-d10	2410000	17.221			
1719-03-5	Chrysene-d12	2510000	21.45			
1520-96-3	Perylene-d12	2390000	24.491			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	420	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	180	AB		4.97	ug/Kg
000119-61-9	Benzophenone	230	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	93.0	J		18.1	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/08/25
Project:	South River WM Replacement			Date Received:	07/08/25
Client Sample ID:	TP-33			SDG No.:	Q2529
Lab Sample ID:	Q2529-09			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	90.5
Sample Wt/Vol:	30.07	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
BM050393.D	1	07/09/25 08:55	07/10/25 17:18	PB168767

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:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
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
BP025088.D	1	07/09/25 08:55	07/10/25 18:21	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.2	U	24.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.6	U	26.6	190	ug/Kg
95-57-8	2-Chlorophenol	26.7	U	26.7	190	ug/Kg
95-48-7	2-Methylphenol	32.7	U	32.7	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.0	U	41.0	190	ug/Kg
98-86-2	Acetophenone	32.2	U	32.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	44.9	U	44.9	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.8	U	51.8	87.4	ug/Kg
67-72-1	Hexachloroethane	19.2	U	19.2	190	ug/Kg
98-95-3	Nitrobenzene	20.0	U	20.0	190	ug/Kg
78-59-1	Isophorone	35.9	UQ	35.9	190	ug/Kg
88-75-5	2-Nitrophenol	63.6	U	63.6	190	ug/Kg
105-67-9	2,4-Dimethylphenol	70.8	U	70.8	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.7	U	33.7	190	ug/Kg
120-83-2	2,4-Dichlorophenol	30.9	U	30.9	190	ug/Kg
91-20-3	Naphthalene	24.8	U	24.8	190	ug/Kg
106-47-8	4-Chloroaniline	38.7	U	38.7	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.7	U	27.7	190	ug/Kg
105-60-2	Caprolactam	56.9	U	56.9	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.4	U	31.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.0	U	28.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.6	UQ	21.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.8	UQ	31.8	190	ug/Kg
92-52-4	1,1-Biphenyl	23.8	U	23.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.6	U	24.6	190	ug/Kg
88-74-4	2-Nitroaniline	52.6	U	52.6	190	ug/Kg
131-11-3	Dimethylphthalate	29.6	U	29.6	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
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
BP025088.D	1	07/09/25 08:55	07/10/25 18:21	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.6	UQ	31.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.7	UQ	36.7	190	ug/Kg
99-09-2	3-Nitroaniline	50.3	U	50.3	190	ug/Kg
83-32-9	Acenaphthene	23.3	U	23.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.8	U	24.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.8	U	54.8	190	ug/Kg
84-66-2	Diethylphthalate	30.9	U	30.9	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.2	U	29.2	190	ug/Kg
86-73-7	Fluorene	27.7	U	27.7	190	ug/Kg
100-01-6	4-Nitroaniline	70.2	UQ	70.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.0	UQ	36.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.4	U	30.4	190	ug/Kg
118-74-1	Hexachlorobenzene	27.7	UQ	27.7	190	ug/Kg
1912-24-9	Atrazine	37.2	U	37.2	190	ug/Kg
87-86-5	Pentachlorophenol	56.1	UQ	56.1	360	ug/Kg
85-01-8	Phenanthrene	22.8	U	22.8	190	ug/Kg
120-12-7	Anthracene	36.4	UQ	36.4	190	ug/Kg
86-74-8	Carbazole	34.1	UQ	34.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.4	UQ	52.4	190	ug/Kg
206-44-0	Fluoranthene	32.8	U	32.8	190	ug/Kg
129-00-0	Pyrene	39.3	U	39.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.0	U	78.0	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.1	U	40.1	360	ug/Kg
56-55-3	Benzo(a)anthracene	25.1	U	25.1	190	ug/Kg
218-01-9	Chrysene	21.8	U	21.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.7	U	64.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	94.9	U	94.9	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.8	U	20.8	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
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
BP025088.D	1	07/09/25 08:55	07/10/25 18:21	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.5	U	24.5	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.2	UQ	32.2	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31.8	UQ	31.8	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.9	U	29.9	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.1	U	28.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.0	U	28.0	190	ug/Kg
123-91-1	1,4-Dioxane	49.4	U	49.4	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.9	U	29.9	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.8		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	84.3		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.3		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.1		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		10 - 116	69%	SPK: 150
1718-51-0	Terphenyl-d14	60.6		10 - 105	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	546000	7.437			
1146-65-2	Naphthalene-d8	2140000	10.178			
15067-26-2	Acenaphthene-d10	1340000	14.084			
1517-22-2	Phenanthrene-d10	2790000	16.895			
1719-03-5	Chrysene-d12	3240000	21.342			
1520-96-3	Perylene-d12	3650000	24.483			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	170	AB		4.66	ug/Kg
000119-61-9	Benzophenone	250	J		15.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J		17.9	ug/Kg
015594-90-8	1-Heneicosanol	99.1	J		21.1	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/08/25
Project:	South River WM Replacement			Date Received:	07/08/25
Client Sample ID:	TP-30			SDG No.:	Q2529
Lab Sample ID:	Q2529-10			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	91.4
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
BP025088.D	1	07/09/25 08:55	07/10/25 18:21	PB168767

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

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Surrogate Summary

SW-846

SDG No.: Q2529

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB168767BL	PB168767BL	2-Fluorophenol	150	146	97		18	112
		Phenol-d6	150	138	92		15	107
		Nitrobenzene-d5	100	99.6	100		18	107
		2-Fluorobiphenyl	100	96.5	96		20	109
		2,4,6-Tribromophenol	150	156	104		10	116
		Terphenyl-d14	100	105	105		10	105
PB168767BS	PB168767BS	2-Fluorophenol	150	155	103		18	112
		Phenol-d6	150	148	98		15	107
		Nitrobenzene-d5	100	103	103		18	107
		2-Fluorobiphenyl	100	98.8	99		20	109
		2,4,6-Tribromophenol	150	161	107		10	116
		Terphenyl-d14	100	105	105		10	105
Q2517-01MS	TP-14MS	2-Fluorophenol	150	80.8	54		18	112
		Phenol-d6	150	82.0	55		15	107
		Nitrobenzene-d5	100	52.1	52		18	107
		2-Fluorobiphenyl	100	50.6	51		20	109
		2,4,6-Tribromophenol	150	77.3	52		10	116
		Terphenyl-d14	100	37.5	38		10	105
Q2517-01MSD	TP-14MSD	2-Fluorophenol	150	73.7	49		18	112
		Phenol-d6	150	74.5	50		15	107
		Nitrobenzene-d5	100	48.0	48		18	107
		2-Fluorobiphenyl	100	46.5	47		20	109
		2,4,6-Tribromophenol	150	67.5	45		10	116
		Terphenyl-d14	100	33.5	33		10	105
Q2529-01	TP-91	2-Fluorophenol	150	69.7	46		18	112
		Phenol-d6	150	70.0	47		15	107
		Nitrobenzene-d5	100	49.5	49		18	107
		2-Fluorobiphenyl	100	49.0	49		20	109
		2,4,6-Tribromophenol	150	78.7	52		10	116
		Terphenyl-d14	100	49.6	50		10	105
Q2529-02	TP-80	2-Fluorophenol	150	67.9	45		18	112
		Phenol-d6	150	64.6	43		15	107
		Nitrobenzene-d5	100	48.6	49		18	107
		2-Fluorobiphenyl	100	43.7	44		20	109
		2,4,6-Tribromophenol	150	84.9	57		10	116
		Terphenyl-d14	100	51.0	51		10	105
Q2529-03	TP-79	2-Fluorophenol	150	127	85		18	112
		Phenol-d6	150	131	87		15	107
		Nitrobenzene-d5	100	79.3	79		18	107
		2-Fluorobiphenyl	100	74.1	74		20	109
		2,4,6-Tribromophenol	150	160	106		10	116
		Terphenyl-d14	100	80.4	80		10	105
Q2529-04	TP-95	2-Fluorophenol	150	77.0	51		18	112
		Phenol-d6	150	75.7	50		15	107
		Nitrobenzene-d5	100	53.9	54		18	107
		2-Fluorobiphenyl	100	47.7	48		20	109
		2,4,6-Tribromophenol	150	84.6	56		10	116
		Terphenyl-d14	100	49.7	50		10	105
Q2529-05	TP-98	2-Fluorophenol	150	73.7	49		18	112
		Phenol-d6	150	75.3	50		15	107
		Nitrobenzene-d5	100	45.8	46		18	107

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Surrogate Summary

SW-846

SDG No.: Q2529

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
Q2529-05	TP-98	2-Fluorobiphenyl	100	42.5	43		20	109
		2,4,6-Tribromophenol	150	82.7	55		10	116
		Terphenyl-d14	100	48.4	48		10	105
Q2529-06	TP-102	2-Fluorophenol	150	60.5	40		18	112
		Phenol-d6	150	60.0	40		15	107
		Nitrobenzene-d5	100	38.3	38		18	107
		2-Fluorobiphenyl	100	46.0	46		20	109
		2,4,6-Tribromophenol	150	44.1	29		10	116
		Terphenyl-d14	100	30.6	31		10	105
Q2529-07	TP-101	2-Fluorophenol	150	75.3	50		18	112
		Phenol-d6	150	77.8	52		15	107
		Nitrobenzene-d5	100	51.0	51		18	107
		2-Fluorobiphenyl	100	52.5	52		20	109
		2,4,6-Tribromophenol	150	53.9	36		10	116
		Terphenyl-d14	100	37.8	38		10	105
Q2529-08	TP-89	2-Fluorophenol	150	125	83		18	112
		Phenol-d6	150	127	84		15	107
		Nitrobenzene-d5	100	76.3	76		18	107
		2-Fluorobiphenyl	100	73.0	73		20	109
		2,4,6-Tribromophenol	150	147	98		10	116
		Terphenyl-d14	100	82.8	83		10	105
Q2529-09	TP-33	2-Fluorophenol	150	90.0	60		18	112
		Phenol-d6	150	90.7	60		15	107
		Nitrobenzene-d5	100	54.1	54		18	107
		2-Fluorobiphenyl	100	50.8	51		20	109
		2,4,6-Tribromophenol	150	97.0	65		10	116
		Terphenyl-d14	100	63.0	63		10	105
Q2529-10	TP-30	2-Fluorophenol	150	86.8	58		18	112
		Phenol-d6	150	84.3	56		15	107
		Nitrobenzene-d5	100	60.3	60		18	107
		2-Fluorobiphenyl	100	58.1	58		20	109
		2,4,6-Tribromophenol	150	104	69		10	116
		Terphenyl-d14	100	60.6	61		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2529 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF143060.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2517-01MS		**Client Sample ID: TP-14MS**									
Benzaldehyde	1100	0	1000	ug/Kg	91				10	171	
Phenol	1100	0	1000	ug/Kg	91				51	122	
bis(2-Chloroethyl)ether	1100	0	1000	ug/Kg	91				54	125	
2-Chlorophenol	1100	0	1000	ug/Kg	91				51	121	
2-Methylphenol	1100	0	1000	ug/Kg	91				47	125	
2,2-oxybis(1-Chloropropane)	1100	0	940	ug/Kg	85				46	119	
Acetophenone	1100	0	1100	ug/Kg	100				55	128	
3+4-Methylphenols	1100	0	1100	ug/Kg	100				49	125	
N-Nitroso-di-n-propylamine	1100	0	1000	ug/Kg	91				59	119	
Hexachloroethane	1100	0	1000	ug/Kg	91				51	116	
Nitrobenzene	1100	0	1000	ug/Kg	91				47	124	
Isophorone	1100	0	1000	ug/Kg	91				49	127	
2-Nitrophenol	1100	0	1100	ug/Kg	100				43	131	
2,4-Dimethylphenol	1100	0	1000	ug/Kg	91				63	151	
bis(2-Chloroethoxy)methane	1100	0	1000	ug/Kg	91				51	119	
2,4-Dichlorophenol	1100	0	1000	ug/Kg	91				50	122	
Naphthalene	1100	0	1100	ug/Kg	100				51	121	
4-Chloroaniline	1100	0	620	ug/Kg	56				10	100	
Hexachlorobutadiene	1100	0	1100	ug/Kg	100				44	126	
Caprolactam	1100	0	990	ug/Kg	90				51	134	
4-Chloro-3-methylphenol	1100	0	1100	ug/Kg	100				57	132	
2-Methylnaphthalene	1100	0	1000	ug/Kg	91				59	123	
Hexachlorocyclopentadiene	2300	0	1600	ug/Kg	70				10	175	
2,4,6-Trichlorophenol	1100	0	980	ug/Kg	89				33	141	
2,4,5-Trichlorophenol	1100	0	1000	ug/Kg	91				38	135	
1,1-Biphenyl	1100	0	1100	ug/Kg	100				55	131	
2-Chloronaphthalene	1100	0	1100	ug/Kg	100				48	124	
2-Nitroaniline	1100	0	1100	ug/Kg	100				47	134	
Dimethylphthalate	1100	0	1100	ug/Kg	100				54	120	
Acenaphthylene	1100	0	1100	ug/Kg	100				57	125	
2,6-Dinitrotoluene	1100	0	1100	ug/Kg	100				48	127	
3-Nitroaniline	1100	0	830	ug/Kg	75				10	112	
Acenaphthene	1100	0	1100	ug/Kg	100				70	121	
2,4-Dinitrophenol	2300	0	570	ug/Kg	25				10	155	
4-Nitrophenol	2300	0	1400	ug/Kg	61				10	175	
Dibenzofuran	1100	0	1100	ug/Kg	100				52	114	
2,4-Dinitrotoluene	1100	0	1100	ug/Kg	100				41	140	
Diethylphthalate	1100	0	1100	ug/Kg	100				51	119	
4-Chlorophenyl-phenylether	1100	0	1100	ug/Kg	100				48	122	
Fluorene	1100	0	1100	ug/Kg	100				53	118	
4-Nitroaniline	1100	0	1100	ug/Kg	100				29	140	
4,6-Dinitro-2-methylphenol	1100	0	620	ug/Kg	56				10	160	
N-Nitrosodiphenylamine	1100	0	1200	ug/Kg	109				73	118	
4-Bromophenyl-phenylether	1100	0	1200	ug/Kg	109				65	121	
Hexachlorobenzene	1100	0	1100	ug/Kg	100				67	118	
Atrazine	1100	0	1200	ug/Kg	109				45	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2529 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF143060.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2300	0	1100	ug/Kg	48				13	153	
Phenanthrene	1100	0	1100	ug/Kg	100				52	128	
Anthracene	1100	0	1100	ug/Kg	100				62	124	
Carbazole	1100	0	1100	ug/Kg	100				59	119	
Di-n-butylphthalate	1100	0	1200	ug/Kg	109				55	125	
Fluoranthene	1100	0	1000	ug/Kg	91				44	125	
Pyrene	1100	0	790	ug/Kg	72				37	122	
Butylbenzylphthalate	1100	0	1000	ug/Kg	91				44	135	
3,3-Dichlorobenzidine	1100	0	740	ug/Kg	67				15	112	
Benzo(a)anthracene	1100	0	1100	ug/Kg	100				53	119	
Chrysene	1100	0	1100	ug/Kg	100				57	121	
bis(2-Ethylhexyl)phthalate	1100	0	980	ug/Kg	89				42	169	
Di-n-octyl phthalate	1100	0	990	ug/Kg	90				51	156	
Benzo(b)fluoranthene	1100	0	1200	ug/Kg	109				52	117	
Benzo(k)fluoranthene	1100	0	1000	ug/Kg	91				57	134	
Benzo(a)pyrene	1100	0	1100	ug/Kg	100				70	142	
Indeno(1,2,3-cd)pyrene	1100	0	910	ug/Kg	83				40	129	
Dibenz(a,h)anthracene	1100	0	900	ug/Kg	82				43	123	
Benzo(g,h,i)perylene	1100	0	860	ug/Kg	78				24	125	
1,2,4,5-Tetrachlorobenzene	1100	0	1100	ug/Kg	100				52	134	
1,4-Dioxane	1100	0	870	ug/Kg	79				46	112	
2,3,4,6-Tetrachlorophenol	1100	0	890	ug/Kg	81				24	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2529 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF143061.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2517-01MSD		**Client Sample ID: TP-14MSD**									
Benzaldehyde	1100	0	960	ug/Kg	87		4		10	171	20
Phenol	1100	0	920	ug/Kg	84		8		51	122	20
bis(2-Chloroethyl)ether	1100	0	950	ug/Kg	86		6		54	125	20
2-Chlorophenol	1100	0	950	ug/Kg	86		6		51	121	20
2-Methylphenol	1100	0	950	ug/Kg	86		6		47	125	20
2,2-oxybis(1-Chloropropane)	1100	0	850	ug/Kg	77		10		46	119	20
Acetophenone	1100	0	1000	ug/Kg	91		9		55	128	20
3+4-Methylphenols	1100	0	970	ug/Kg	88		13		49	125	20
N-Nitroso-di-n-propylamine	1100	0	950	ug/Kg	86		6		59	119	20
Hexachloroethane	1100	0	930	ug/Kg	85		7		51	116	20
Nitrobenzene	1100	0	970	ug/Kg	88		3		47	124	20
Isophorone	1100	0	950	ug/Kg	86		6		49	127	20
2-Nitrophenol	1100	0	1000	ug/Kg	91		9		43	131	20
2,4-Dimethylphenol	1100	0	950	ug/Kg	86		6		63	151	20
bis(2-Chloroethoxy)methane	1100	0	940	ug/Kg	85		7		51	119	20
2,4-Dichlorophenol	1100	0	970	ug/Kg	88		3		50	122	20
Naphthalene	1100	0	970	ug/Kg	88		13		51	121	20
4-Chloroaniline	1100	0	490	ug/Kg	45		22	*	10	100	20
Hexachlorobutadiene	1100	0	990	ug/Kg	90		11		44	126	20
Caprolactam	1100	0	890	ug/Kg	81		11		51	134	20
4-Chloro-3-methylphenol	1100	0	940	ug/Kg	85		16		57	132	20
2-Methylnaphthalene	1100	0	960	ug/Kg	87		4		59	123	20
Hexachlorocyclopentadiene	2300	0	1300	ug/Kg	57		20		10	175	20
2,4,6-Trichlorophenol	1100	0	890	ug/Kg	81		9		33	141	20
2,4,5-Trichlorophenol	1100	0	890	ug/Kg	81		12		38	135	20
1,1-Biphenyl	1100	0	1000	ug/Kg	91		9		55	131	20
2-Chloronaphthalene	1100	0	1000	ug/Kg	91		9		48	124	20
2-Nitroaniline	1100	0	1000	ug/Kg	91		9		47	134	20
Dimethylphthalate	1100	0	990	ug/Kg	90		11		54	120	20
Acenaphthylene	1100	0	1000	ug/Kg	91		9		57	125	20
2,6-Dinitrotoluene	1100	0	1000	ug/Kg	91		9		48	127	20
3-Nitroaniline	1100	0	670	ug/Kg	61		21	*	10	112	20
Acenaphthene	1100	0	980	ug/Kg	89		12		70	121	20
2,4-Dinitrophenol	2300	0	610	ug/Kg	27		8		10	155	20
4-Nitrophenol	2300	0	1300	ug/Kg	57		7		10	175	20
Dibenzofuran	1100	0	980	ug/Kg	89		12		52	114	20
2,4-Dinitrotoluene	1100	0	970	ug/Kg	88		13		41	140	20
Diethylphthalate	1100	0	980	ug/Kg	89		12		51	119	20
4-Chlorophenyl-phenylether	1100	0	970	ug/Kg	88		13		48	122	20
Fluorene	1100	0	990	ug/Kg	90		11		53	118	20
4-Nitroaniline	1100	0	930	ug/Kg	85		16		29	140	20
4,6-Dinitro-2-methylphenol	1100	0	620	ug/Kg	56		0		10	160	20
N-Nitrosodiphenylamine	1100	0	1100	ug/Kg	100		9		73	118	20
4-Bromophenyl-phenylether	1100	0	1100	ug/Kg	100		9		65	121	20
Hexachlorobenzene	1100	0	1100	ug/Kg	100		0		67	118	20
Atrazine	1100	0	1100	ug/Kg	100		9		45	175	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2529 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF143061.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2300	0	1000	ug/Kg	43		11		13	153	20
Phenanthrene	1100	0	1000	ug/Kg	91		9		52	128	20
Anthracene	1100	0	1000	ug/Kg	91		9		62	124	20
Carbazole	1100	0	990	ug/Kg	90		11		59	119	20
Di-n-butylphthalate	1100	0	1100	ug/Kg	100		9		55	125	20
Fluoranthene	1100	0	940	ug/Kg	85		7		44	125	20
Pyrene	1100	0	710	ug/Kg	65		10		37	122	20
Butylbenzylphthalate	1100	0	920	ug/Kg	84		8		44	135	20
3,3-Dichlorobenzidine	1100	0	600	ug/Kg	55		20		15	112	20
Benzo(a)anthracene	1100	0	1000	ug/Kg	91		9		53	119	20
Chrysene	1100	0	990	ug/Kg	90		11		57	121	20
bis(2-Ethylhexyl)phthalate	1100	0	840	ug/Kg	76		16		42	169	20
Di-n-octyl phthalate	1100	0	870	ug/Kg	79		13		51	156	20
Benzo(b)fluoranthene	1100	0	1000	ug/Kg	91		18		52	117	20
Benzo(k)fluoranthene	1100	0	1100	ug/Kg	100		9		57	134	20
Benzo(a)pyrene	1100	0	1000	ug/Kg	91		9		70	142	20
Indeno(1,2,3-cd)pyrene	1100	0	810	ug/Kg	74		11		40	129	20
Dibenz(a,h)anthracene	1100	0	810	ug/Kg	74		10		43	123	20
Benzo(g,h,i)perylene	1100	0	740	ug/Kg	67		15		24	125	20
1,2,4,5-Tetrachlorobenzene	1100	0	1000	ug/Kg	91		9		52	134	20
1,4-Dioxane	1100	0	830	ug/Kg	75		5		46	112	20
2,3,4,6-Tetrachlorophenol	1100	0	780	ug/Kg	71		13		24	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2529 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BP025084.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168767BS	Benzaldehyde	1700	1700	ug/Kg	100				10	133	
	Phenol	1700	1700	ug/Kg	100				62	112	
	bis(2-Chloroethyl)ether	1700	1600	ug/Kg	94				60	101	
	2-Chlorophenol	1700	1700	ug/Kg	100				65	112	
	2-Methylphenol	1700	1800	ug/Kg	106				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1600	ug/Kg	94				51	100	
	Acetophenone	1700	1600	ug/Kg	94				66	98	
	3+4-Methylphenols	1700	1700	ug/Kg	100				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1700	ug/Kg	100				72	108	
	Nitrobenzene	1700	1700	ug/Kg	100				57	101	
	Isophorone	1700	1700	ug/Kg	100		*		59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	2400	ug/Kg	141				46	141	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				66	97	
	2,4-Dichlorophenol	1700	1800	ug/Kg	106				62	107	
	Naphthalene	1700	1600	ug/Kg	94				62	100	
	4-Chloroaniline	1700	1100	ug/Kg	65				16	100	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				53	98	
	Caprolactam	1700	1600	ug/Kg	94				67	110	
	4-Chloro-3-methylphenol	1700	1700	ug/Kg	100				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	6900	ug/Kg	209		*		45	165	
	2,4,6-Trichlorophenol	1700	1800	ug/Kg	106		*		59	102	
	2,4,5-Trichlorophenol	1700	1800	ug/Kg	106		*		61	98	
	1,1-Biphenyl	1700	1600	ug/Kg	94				57	103	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				58	99	
	2-Nitroaniline	1700	1700	ug/Kg	100				66	101	
	Dimethylphthalate	1700	1600	ug/Kg	94				61	99	
	Acenaphthylene	1700	1800	ug/Kg	106		*		63	101	
	2,6-Dinitrotoluene	1700	1800	ug/Kg	106		*		61	104	
	3-Nitroaniline	1700	1300	ug/Kg	76				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3400	ug/Kg	103				37	128	
	4-Nitrophenol	3300	3700	ug/Kg	112				48	119	
	Dibenzofuran	1700	1600	ug/Kg	94				63	99	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				60	106	
	Diethylphthalate	1700	1600	ug/Kg	94				60	101	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				58	98	
	Fluorene	1700	1600	ug/Kg	94				61	101	
	4-Nitroaniline	1700	1800	ug/Kg	106		*		64	103	
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				76	113	
	N-Nitrosodiphenylamine	1700	1700	ug/Kg	100		*		71	99	
	4-Bromophenyl-phenylether	1700	1700	ug/Kg	100				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2529 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BP025084.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168767BS	Hexachlorobenzene	1700	1700	ug/Kg	100		*		64	98	
	Atrazine	1700	2100	ug/Kg	124				47	152	
	Pentachlorophenol	3300	3500	ug/Kg	106		*		67	105	
	Phenanthrene	1700	1700	ug/Kg	100				59	103	
	Anthracene	1700	1800	ug/Kg	106		*		61	105	
	Carbazole	1700	1700	ug/Kg	100		*		61	99	
	Di-n-butylphthalate	1700	1800	ug/Kg	106		*		58	104	
	Fluoranthene	1700	1700	ug/Kg	100				57	107	
	Pyrene	1700	1700	ug/Kg	100				59	103	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				55	103	
	3,3-Dichlorobenzidine	1700	1300	ug/Kg	76				42	91	
	Benzo(a)anthracene	1700	1700	ug/Kg	100				60	102	
	Chrysene	1700	1600	ug/Kg	94				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1800	ug/Kg	106				54	135	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				52	137	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				62	109	
	Benzo(k)fluoranthene	1700	1700	ug/Kg	100				62	109	
	Benzo(a)pyrene	1700	1900	ug/Kg	112		*		63	103	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106		*		63	101	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				61	112	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				53	101	
	1,4-Dioxane	1700	1300	ug/Kg	76				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1800	ug/Kg	106				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB168767BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2529

Lab File ID: BP025083.D | Lab Sample ID: PB168767BL

Instrument ID: BNA_P | Date Extracted: 07/09/2025

Matrix: (soil/water) SOIL | Date Analyzed: 07/10/2025

Level: (low/med) LOW | Time Analyzed: 14:48

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168767BS	PB168767BS	BP025084.D	07/10/2025
TP-30	Q2529-10	BP025088.D	07/10/2025
TP-95	Q2529-04	BP025089.D	07/10/2025
TP-91	Q2529-01	BP025090.D	07/10/2025
TP-80	Q2529-02	BP025162.D	07/16/2025
TP-14MS	Q2517-01MS	BF143060.D	07/09/2025
TP-14MSD	Q2517-01MSD	BF143061.D	07/09/2025
TP-101	Q2529-07	BF143062.D	07/09/2025
TP-102	Q2529-06	BF143065.D	07/09/2025
TP-79	Q2529-03	BM050390.D	07/10/2025
TP-98	Q2529-05	BM050391.D	07/10/2025
TP-89	Q2529-08	BM050392.D	07/10/2025
TP-33	Q2529-09	BM050393.D	07/10/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Lab File ID: BF142787.D DFTPP Injection Date: 06/19/2025

Instrument ID: BNA_F DFTPP Injection Time: 16:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	30.9
70	Less than 2.0% of mass 69	0.1 (0.5) 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	5.8
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 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	BF142788.D	06/19/2025	17:07
SSTDICC005	SSTDICC005	BF142789.D	06/19/2025	17:38
SSTDICC010	SSTDICC010	BF142790.D	06/19/2025	18:08
SSTDICC020	SSTDICC020	BF142791.D	06/19/2025	18:39
SSTDICCC040	SSTDICCC040	BF142792.D	06/19/2025	19:09
SSTDICC050	SSTDICC050	BF142793.D	06/19/2025	19:40
SSTDICC060	SSTDICC060	BF142794.D	06/19/2025	20:10
SSTDICC080	SSTDICC080	BF142795.D	06/19/2025	20:40

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Lab File ID: BF143047.D DFTPP Injection Date: 07/09/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	30.9
70	Less than 2.0% of mass 69	0.0 (0.0) 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	5.8
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.2) 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	BF143048.D	07/09/2025	10:52
TP-14MS	Q2517-01MS	BF143060.D	07/09/2025	17:00
TP-14MSD	Q2517-01MSD	BF143061.D	07/09/2025	17:30
TP-101	Q2529-07	BF143062.D	07/09/2025	18:01
TP-102	Q2529-06	BF143065.D	07/09/2025	19:33

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Lab File ID: BM050376.D DFTPP Injection Date: 07/08/2025

Instrument ID: BNA_M DFTPP Injection Time: 11:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	33.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.5
442	Greater than 50% of mass 198	66.5
443	15.0 - 24.0% of mass 442	12.9 (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	BM050377.D	07/08/2025	12:39
SSTDICC005	SSTDICC005	BM050378.D	07/08/2025	13:19
SSTDICC010	SSTDICC010	BM050379.D	07/08/2025	14:00
SSTDICC020	SSTDICC020	BM050380.D	07/08/2025	14:40
SSTDICCC040	SSTDICCC040	BM050381.D	07/08/2025	15:20
SSTDICC050	SSTDICC050	BM050382.D	07/08/2025	16:01
SSTDICC060	SSTDICC060	BM050383.D	07/08/2025	16:41
SSTDICC080	SSTDICC080	BM050384.D	07/08/2025	17:22

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2529

Lab File ID: BM050387.D | DFTPP Injection Date: 07/10/2025

Instrument ID: BNA_M | DFTPP Injection Time: 13:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	33.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.4
442	Greater than 50% of mass 198	68
443	15.0 - 24.0% of mass 442	13.2 (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	BM050388.D	07/10/2025	13:53
TP-79	Q2529-03	BM050390.D	07/10/2025	15:17
TP-98	Q2529-05	BM050391.D	07/10/2025	15:57
TP-89	Q2529-08	BM050392.D	07/10/2025	16:37
TP-33	Q2529-09	BM050393.D	07/10/2025	17:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Lab File ID: BP025070.D DFTPP Injection Date: 07/03/2025

Instrument ID: BNA_P DFTPP Injection Time: 08:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	31.4
70	Less than 2.0% of mass 69	0.1 (0.4) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	92.8
443	15.0 - 24.0% of mass 442	18 (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	BP025071.D	07/03/2025	09:39
SSTDICC005	SSTDICC005	BP025072.D	07/03/2025	10:21
SSTDICC010	SSTDICC010	BP025073.D	07/03/2025	11:02
SSTDICC020	SSTDICC020	BP025074.D	07/03/2025	11:44
SSTDICCC040	SSTDICCC040	BP025075.D	07/03/2025	12:25
SSTDICC050	SSTDICC050	BP025076.D	07/03/2025	13:07
SSTDICC060	SSTDICC060	BP025077.D	07/03/2025	13:49
SSTDICC080	SSTDICC080	BP025078.D	07/03/2025	14:31

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2529

Lab File ID: BP025081.D | DFTPP Injection Date: 07/10/2025

Instrument ID: BNA_P | DFTPP Injection Time: 13:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	31.5
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	82.9
443	15.0 - 24.0% of mass 442	16.3 (19.6) 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	BP025082.D	07/10/2025	14:04
PB168767BL	PB168767BL	BP025083.D	07/10/2025	14:48
PB168767BS	PB168767BS	BP025084.D	07/10/2025	15:30
TP-30	Q2529-10	BP025088.D	07/10/2025	18:21
TP-95	Q2529-04	BP025089.D	07/10/2025	19:03
TP-91	Q2529-01	BP025090.D	07/10/2025	19:44

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2529

Lab File ID: BP025154.D | DFTPP Injection Date: 07/16/2025

Instrument ID: BNA_P | DFTPP Injection Time: 11:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	28.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	93.6
443	15.0 - 24.0% of mass 442	18.5 (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	BP025155.D	07/16/2025	12:42
TP-80	Q2529-02	BP025162.D	07/16/2025	17:36

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2529

Client ID : SSTDCCC040 Date Analyzed: 07/09/2025

Lab File ID: BF143048.D Time Analyzed: 10:52

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	66592	6.875	257344	8.16	135062	9.92
	UPPER LIMIT	133184	7.375	514688	8.657	270124	10.416
	LOWER LIMIT	33296	6.375	128672	7.657	67531	9.416
	EPA SAMPLE NO.						
01	TP-14MS	52081	6.87	191892	8.16	94721	9.92
02	TP-14MSD	49173	6.87	178050	8.16	87986	9.92
03	TP-101	47254	6.87	174308	8.16	90374	9.91
04	TP-102	44597	6.87	162685	8.16	74800	9.91

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: Alliance

Lab Code: ACE SDG NO.: Q2529

Client ID: SSTDCCC040 Date Analyzed: 07/09/2025

Lab File ID: BF143048.D Time Analyzed: 10:52

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	218580	11.41	110392	14.057	146270	15.545
	UPPER LIMIT	437160	11.91	220784	14.557	292540	16.045
	LOWER LIMIT	109290	10.91	55196	13.557	73135	15.045
	EPA SAMPLE NO.						
01	TP-14MS	141827	11.40	102470	14.06	129759	15.55
02	TP-14MSD	128612	11.40	92445	14.05	117034	15.55
03	TP-101	137992	11.40	101609	14.05	114308	15.55
04	TP-102	114652	11.40	120675	14.05	79996	15.55

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: CHEM SDG NO.: Q2529

Client ID : SSTDICCC040 Date Analyzed: 07/08/2025

Lab File ID: BM050381.D Time Analyzed: 15:20

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	390087	7.863	1498320	10.66	967077	14.49
	UPPER LIMIT	780174	8.363	2996640	11.163	1934150	14.992
	LOWER LIMIT	195044	7.363	749160	10.163	483539	13.992
	EPA SAMPLE NO.						
01	TP-79	494196	7.86	1809490	10.66	1160200	14.49
02	TP-98	541235	7.86	1982500	10.66	1258100	14.49
03	TP-89	534860	7.86	1946890	10.66	1231740	14.49
04	TP-33	508555	7.86	1849710	10.66	1187750	14.49

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: Alliance

Lab Code: CHEM SDG NO.: Q2529

Client ID: SSTDICCC040 Date Analyzed: 07/08/2025

Lab File ID: BM050381.D Time Analyzed: 15:20

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1834050	17.227	1904000	21.456	1842290	24.497
	UPPER LIMIT	3668100	17.727	3808000	21.956	3684580	24.997
	LOWER LIMIT	917025	16.727	952000	20.956	921145	23.997
	EPA SAMPLE NO.						
01	TP-79	2509640	17.22	2687320	21.45	2766870	24.49
02	TP-98	2502020	17.23	2656850	21.45	2652820	24.49
03	TP-89	2477430	17.23	2462750	21.45	2316010	24.49
04	TP-33	2414090	17.22	2506900	21.45	2387080	24.49

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: Alliance

Lab Code: ACE SDG NO.: Q2529

Client ID : SSTDCCC040 Date Analyzed: 07/10/2025

Lab File ID: BM050388.D Time Analyzed: 13:53

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	446689	7.863	1689420	10.66	1077980	14.49
	UPPER LIMIT	893378	8.363	3378840	11.157	2155960	14.992
	LOWER LIMIT	223345	7.363	844710	10.157	538990	13.992
	EPA SAMPLE NO.						
01	TP-33	508555	7.86	1849710	10.66	1187750	14.49
02	TP-79	494196	7.86	1809490	10.66	1160200	14.49
03	TP-98	541235	7.86	1982500	10.66	1258100	14.49
04	TP-89	534860	7.86	1946890	10.66	1231740	14.49

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: Alliance

Lab Code: ACE SDG NO.: Q2529

Client ID: SSTDCCC040 Date Analyzed: 07/10/2025

Lab File ID: BM050388.D Time Analyzed: 13:53

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2057470	17.227	2112610	21.45	2045330	24.491
	UPPER LIMIT	4114940	17.727	4225220	21.95	4090660	24.991
	LOWER LIMIT	1028740	16.727	1056310	20.95	1022670	23.991
	EPA SAMPLE NO.						
01	TP-33	2414090	17.22	2506900	21.45	2387080	24.49
02	TP-79	2509640	17.22	2687320	21.45	2766870	24.49
03	TP-98	2502020	17.23	2656850	21.45	2652820	24.49
04	TP-89	2477430	17.23	2462750	21.45	2316010	24.49

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: Alliance

Lab Code: CHEM SDG NO.: Q2529

Client ID : SSTDICCC040 Date Analyzed: 07/03/2025

Lab File ID: BP025075.D Time Analyzed: 12:25

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	390810	7.443	1560150	10.18	1003100	14.09
	UPPER LIMIT	781620	7.943	3120300	10.684	2006200	14.589
	LOWER LIMIT	195405	6.943	780075	9.684	501550	13.589
	EPA SAMPLE NO.						
01	PB168767BL	405320	7.43	1589650	10.18	1018800	14.09
02	PB168767BS	420219	7.44	1675730	10.18	1078670	14.08
03	TP-91	532751	7.44	2130140	10.18	1357230	14.08
04	TP-95	552278	7.44	2209290	10.19	1404890	14.10
05	TP-30	546199	7.44	2144560	10.18	1342160	14.08
06	TP-80	576516	7.44	2197510	10.19	1357110	14.10

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: Alliance

Lab Code: CHEM SDG NO.: Q2529

Client ID: SSTDICCC040 Date Analyzed: 07/03/2025

Lab File ID: BP025075.D Time Analyzed: 12:25

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2062710	16.907	2262590	21.342	2431660	24.495
	UPPER LIMIT	4125420	17.407	4525180	21.842	4863320	24.995
	LOWER LIMIT	1031360	16.407	1131300	20.842	1215830	23.995
	EPA SAMPLE NO.						
01	PB168767BL	2249210	16.91	2364660	21.34	2401940	24.47
02	PB168767BS	2205230	16.91	2320390	21.35	2463990	24.48
03	TP-91	2770430	16.90	3117380	21.34	3248940	24.48
04	TP-95	2847970	16.91	3149270	21.32	3314390	24.46
05	TP-30	2785700	16.90	3238760	21.34	3650800	24.48
06	TP-80	2583320	16.93	2698510	21.35	3269620	24.48

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: Alliance

Lab Code: ACE SDG NO.: Q2529

Client ID : SSTDCCC040 Date Analyzed: 07/10/2025

Lab File ID: BP025082.D Time Analyzed: 14:04

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	409438	7.425	1701300	10.18	1080410	14.08
	UPPER LIMIT	818876	7.925	3402600	10.678	2160820	14.584
	LOWER LIMIT	204719	6.925	850650	9.678	540205	13.584
	EPA SAMPLE NO.						
01	PB168767BL	405320	7.43	1589650	10.18	1018800	14.09
02	PB168767BS	420219	7.44	1675730	10.18	1078670	14.08
03	TP-30	546199	7.44	2144560	10.18	1342160	14.08
04	TP-91	532751	7.44	2130140	10.18	1357230	14.08
05	TP-95	552278	7.44	2209290	10.19	1404890	14.10

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: Alliance

Lab Code: ACE SDG NO.: Q2529

Client ID: SSTDCCC040 Date Analyzed: 07/10/2025

Lab File ID: BP025082.D Time Analyzed: 14:04

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2198800	16.901	2306390	21.336	2492510	24.483
	UPPER LIMIT	4397600	17.401	4612780	21.836	4985020	24.983
	LOWER LIMIT	1099400	16.401	1153200	20.836	1246260	23.983
	EPA SAMPLE NO.						
01	PB168767BL	2249210	16.91	2364660	21.34	2401940	24.47
02	PB168767BS	2205230	16.91	2320390	21.35	2463990	24.48
03	TP-30	2785700	16.90	3238760	21.34	3650800	24.48
04	TP-91	2770430	16.90	3117380	21.34	3248940	24.48
05	TP-95	2847970	16.91	3149270	21.32	3314390	24.46

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: Alliance

Lab Code: ACE SDG NO.: Q2529

Client ID : SSTDCCC040 Date Analyzed: 07/16/2025

Lab File ID: BP025155.D Time Analyzed: 12:42

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	564997	7.443	2237580	10.20	1465070	14.10
	UPPER LIMIT	1129990	7.943	4475160	10.696	2930140	14.595
	LOWER LIMIT	282499	6.943	1118790	9.696	732535	13.595
	EPA SAMPLE NO.						
01	TP-80	576516	7.44	2197510	10.19	1357110	14.10

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: Alliance

Lab Code: ACE SDG NO.: Q2529

Client ID: SSTDCCC040 Date Analyzed: 07/16/2025

Lab File ID: BP025155.D Time Analyzed: 12:42

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2922940	16.93	2997870	21.36	3472370	24.501
	UPPER LIMIT	5845880	17.43	5995740	21.86	6944740	25.001
	LOWER LIMIT	1461470	16.43	1498940	20.86	1736190	24.001
	EPA SAMPLE NO.						
01	TP-80	2583320	16.93	2698510	21.35	3269620	24.48

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BL	SDG No.:	Q2529
Lab Sample ID:	PB168767BL	Matrix:	SOIL
Analytical Method:	8270E	% 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
BP025083.D	1	07/09/25 08:55	07/10/25 14:48	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.1	U	52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168767BL			SDG No.:	Q2529
Lab Sample ID:	PB168767BL			Matrix:	SOIL
Analytical Method:	8270E			% 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
BP025083.D	1	07/09/25 08:55	07/10/25 14:48	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.1	U	50.1	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.2	U	64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.3	U	51.3	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.4	U	71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.7	U	86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BL	SDG No.:	Q2529
Lab Sample ID:	PB168767BL	Matrix:	SOIL
Analytical Method:	8270E	% 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
BP025083.D	1	07/09/25 08:55	07/10/25 14:48	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	146		18 - 112	97%	SPK: 150
13127-88-3	Phenol-d6	138		15 - 107	92%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.6		18 - 107	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.5		20 - 109	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	156		10 - 116	104%	SPK: 150
1718-51-0	Terphenyl-d14	105		10 - 105	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	405000	7.431			
1146-65-2	Naphthalene-d8	1590000	10.178			
15067-26-2	Acenaphthene-d10	1020000	14.089			
1517-22-2	Phenanthrene-d10	2250000	16.913			
1719-03-5	Chrysene-d12	2360000	21.336			
1520-96-3	Perylene-d12	2400000	24.471			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A		4.65	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168767BL			SDG No.:	Q2529
Lab Sample ID:	PB168767BL			Matrix:	SOIL
Analytical Method:	8270E			% 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
BP025083.D	1	07/09/25 08:55	07/10/25 14:48	PB168767

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BS	SDG No.:	Q2529
Lab Sample ID:	PB168767BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
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
BP025084.D	1	07/09/25 08:55	07/10/25 15:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		160	330	ug/Kg
108-95-2	Phenol	1700		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1700		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1800		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		37.5	170	ug/Kg
98-86-2	Acetophenone	1600		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1700		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1700		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1700		18.3	170	ug/Kg
78-59-1	Isophorone	1700		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2400		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		28.3	170	ug/Kg
91-20-3	Naphthalene	1600		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	1100		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		25.3	170	ug/Kg
105-60-2	Caprolactam	1600		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6900	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1700		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1600		27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168767BS			SDG No.:	Q2529
Lab Sample ID:	PB168767BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
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
BP025084.D	1	07/09/25 08:55	07/10/25 15:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1300		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3400	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3700	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1600		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1600		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		26.7	170	ug/Kg
86-73-7	Fluorene	1600		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1800		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1700		25.3	170	ug/Kg
1912-24-9	Atrazine	2100		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3500	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1700		20.9	170	ug/Kg
120-12-7	Anthracene	1800		33.3	170	ug/Kg
86-74-8	Carbazole	1700		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1800		47.9	170	ug/Kg
206-44-0	Fluoranthene	1700		30.0	170	ug/Kg
129-00-0	Pyrene	1700		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1700		23.0	170	ug/Kg
218-01-9	Chrysene	1600		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BS	SDG No.:	Q2529
Lab Sample ID:	PB168767BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
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
BP025084.D	1	07/09/25 08:55	07/10/25 15:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1900		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1300		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	155		18 - 112	103%	SPK: 150
13127-88-3	Phenol-d6	148		15 - 107	98%	SPK: 150
4165-60-0	Nitrobenzene-d5	103		18 - 107	103%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.8		20 - 109	99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	161		10 - 116	107%	SPK: 150
1718-51-0	Terphenyl-d14	105		10 - 105	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	420000	7.443			
1146-65-2	Naphthalene-d8	1680000	10.184			
15067-26-2	Acenaphthene-d10	1080000	14.084			
1517-22-2	Phenanthrene-d10	2210000	16.913			
1719-03-5	Chrysene-d12	2320000	21.354			
1520-96-3	Perylene-d12	2460000	24.483			

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MS	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	50.04 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
BF143060.D	1	07/09/25 08:55	07/09/25 17:00	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1000		110	230	ug/Kg
108-95-2	Phenol	1000		15.1	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1000		16.6	120	ug/Kg
95-57-8	2-Chlorophenol	1000		16.7	120	ug/Kg
95-48-7	2-Methylphenol	1000		20.4	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	940		25.6	120	ug/Kg
98-86-2	Acetophenone	1100		20.1	120	ug/Kg
65794-96-9	3+4-Methylphenols	1100		28.1	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1000		32.4	54.6	ug/Kg
67-72-1	Hexachloroethane	1000		12.0	120	ug/Kg
98-95-3	Nitrobenzene	1000		12.5	120	ug/Kg
78-59-1	Isophorone	1000		22.4	120	ug/Kg
88-75-5	2-Nitrophenol	1100		39.7	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1000		44.2	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1000		21.0	120	ug/Kg
120-83-2	2,4-Dichlorophenol	1000		19.3	120	ug/Kg
91-20-3	Naphthalene	1100		15.5	120	ug/Kg
106-47-8	4-Chloroaniline	620		24.2	120	ug/Kg
87-68-3	Hexachlorobutadiene	1100		17.3	120	ug/Kg
105-60-2	Caprolactam	990		35.6	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		19.6	120	ug/Kg
91-57-6	2-Methylnaphthalene	1000		17.5	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1600		79.2	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	980		13.5	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1000		19.9	120	ug/Kg
92-52-4	1,1-Biphenyl	1100		14.9	120	ug/Kg
91-58-7	2-Chloronaphthalene	1100		15.4	120	ug/Kg
88-74-4	2-Nitroaniline	1100		32.8	120	ug/Kg
131-11-3	Dimethylphthalate	1100		18.5	120	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MS	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	50.04 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
BF143060.D	1	07/09/25 08:55	07/09/25 17:00	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		19.7	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		22.9	120	ug/Kg
99-09-2	3-Nitroaniline	830		31.4	120	ug/Kg
83-32-9	Acenaphthene	1100		14.5	120	ug/Kg
51-28-5	2,4-Dinitrophenol	570		160	230	ug/Kg
100-02-7	4-Nitrophenol	1400		73.1	230	ug/Kg
132-64-9	Dibenzofuran	1100		15.5	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		34.2	120	ug/Kg
84-66-2	Diethylphthalate	1100		19.3	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		18.2	120	ug/Kg
86-73-7	Fluorene	1100		17.3	120	ug/Kg
100-01-6	4-Nitroaniline	1100		43.8	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	620		70.3	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1200		22.5	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1200		19.0	120	ug/Kg
118-74-1	Hexachlorobenzene	1100		17.3	120	ug/Kg
1912-24-9	Atrazine	1200		23.2	120	ug/Kg
87-86-5	Pentachlorophenol	1100		35.0	230	ug/Kg
85-01-8	Phenanthrene	1100		14.3	120	ug/Kg
120-12-7	Anthracene	1100		22.7	120	ug/Kg
86-74-8	Carbazole	1100		21.3	120	ug/Kg
84-74-2	Di-n-butylphthalate	1200		32.7	120	ug/Kg
206-44-0	Fluoranthene	1000		20.5	120	ug/Kg
129-00-0	Pyrene	790		24.6	120	ug/Kg
85-68-7	Butylbenzylphthalate	1000		48.8	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	740		25.1	230	ug/Kg
56-55-3	Benzo(a)anthracene	1100		15.7	120	ug/Kg
218-01-9	Chrysene	1100		13.6	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	980		40.4	120	ug/Kg
117-84-0	Di-n-octyl phthalate	990		59.3	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	1200		13.0	120	ug/Kg

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Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MS	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	50.04 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
BF143060.D	1	07/09/25 08:55	07/09/25 17:00	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1000		15.3	120	ug/Kg
50-32-8	Benzo(a)pyrene	1100		20.1	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	910		19.9	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	900		18.7	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	860		17.5	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1100		17.5	120	ug/Kg
123-91-1	1,4-Dioxane	870		30.9	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	890		18.7	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	80.8		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	82.0		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.1		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.6		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	77.3		10 - 116	52%	SPK: 150
1718-51-0	Terphenyl-d14	37.5		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	52100	6.869			
1146-65-2	Naphthalene-d8	192000	8.157			
15067-26-2	Acenaphthene-d10	94700	9.916			
1517-22-2	Phenanthrene-d10	142000	11.404			
1719-03-5	Chrysene-d12	102000	14.057			
1520-96-3	Perylene-d12	130000	15.551			

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
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MSD	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
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
BF143061.D	1	07/09/25 08:55	07/09/25 17:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	960		110	230	ug/Kg
108-95-2	Phenol	920		15.1	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	950		16.6	120	ug/Kg
95-57-8	2-Chlorophenol	950		16.7	120	ug/Kg
95-48-7	2-Methylphenol	950		20.4	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	850		25.6	120	ug/Kg
98-86-2	Acetophenone	1000		20.1	120	ug/Kg
65794-96-9	3+4-Methylphenols	970		28.0	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	950		32.3	54.6	ug/Kg
67-72-1	Hexachloroethane	930		12.0	120	ug/Kg
98-95-3	Nitrobenzene	970		12.5	120	ug/Kg
78-59-1	Isophorone	950		22.4	120	ug/Kg
88-75-5	2-Nitrophenol	1000		39.7	120	ug/Kg
105-67-9	2,4-Dimethylphenol	950		44.2	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	940		21.0	120	ug/Kg
120-83-2	2,4-Dichlorophenol	970		19.3	120	ug/Kg
91-20-3	Naphthalene	970		15.5	120	ug/Kg
106-47-8	4-Chloroaniline	490		24.2	120	ug/Kg
87-68-3	Hexachlorobutadiene	990		17.3	120	ug/Kg
105-60-2	Caprolactam	890		35.6	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	940		19.6	120	ug/Kg
91-57-6	2-Methylnaphthalene	960		17.5	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1300		79.2	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	890		13.5	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	890		19.9	120	ug/Kg
92-52-4	1,1-Biphenyl	1000		14.9	120	ug/Kg
91-58-7	2-Chloronaphthalene	1000		15.4	120	ug/Kg
88-74-4	2-Nitroaniline	1000		32.8	120	ug/Kg
131-11-3	Dimethylphthalate	990		18.5	120	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MSD	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
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
BF143061.D	1	07/09/25 08:55	07/09/25 17:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1000		19.7	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		22.9	120	ug/Kg
99-09-2	3-Nitroaniline	670		31.4	120	ug/Kg
83-32-9	Acenaphthene	980		14.5	120	ug/Kg
51-28-5	2,4-Dinitrophenol	610		160	230	ug/Kg
100-02-7	4-Nitrophenol	1300		73.0	230	ug/Kg
132-64-9	Dibenzofuran	980		15.5	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	970		34.2	120	ug/Kg
84-66-2	Diethylphthalate	980		19.3	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	970		18.2	120	ug/Kg
86-73-7	Fluorene	990		17.3	120	ug/Kg
100-01-6	4-Nitroaniline	930		43.8	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	620		70.3	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1100		22.5	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1100		19.0	120	ug/Kg
118-74-1	Hexachlorobenzene	1100		17.3	120	ug/Kg
1912-24-9	Atrazine	1100		23.2	120	ug/Kg
87-86-5	Pentachlorophenol	1000		35.0	230	ug/Kg
85-01-8	Phenanthrene	1000		14.3	120	ug/Kg
120-12-7	Anthracene	1000		22.7	120	ug/Kg
86-74-8	Carbazole	990		21.3	120	ug/Kg
84-74-2	Di-n-butylphthalate	1100		32.7	120	ug/Kg
206-44-0	Fluoranthene	940		20.5	120	ug/Kg
129-00-0	Pyrene	710		24.6	120	ug/Kg
85-68-7	Butylbenzylphthalate	920		48.7	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	600		25.0	230	ug/Kg
56-55-3	Benzo(a)anthracene	1000		15.7	120	ug/Kg
218-01-9	Chrysene	990		13.6	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	840		40.4	120	ug/Kg
117-84-0	Di-n-octyl phthalate	870		59.2	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		13.0	120	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MSD	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
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
BF143061.D	1	07/09/25 08:55	07/09/25 17:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		15.3	120	ug/Kg
50-32-8	Benzo(a)pyrene	1000		20.1	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	810		19.9	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	810		18.7	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	740		17.5	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1000		17.5	120	ug/Kg
123-91-1	1,4-Dioxane	830		30.8	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	780		18.7	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	73.7		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	74.5		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.0		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.5		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	67.5		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	33.5		10 - 105	33%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	49200	6.869			
1146-65-2	Naphthalene-d8	178000	8.157			
15067-26-2	Acenaphthene-d10	88000	9.916			
1517-22-2	Phenanthrene-d10	129000	11.404			
1719-03-5	Chrysene-d12	92400	14.051			
1520-96-3	Perylene-d12	117000	15.551			

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-BF061925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 20 05:06:14 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142788.D 5 =BF142789.D 10 =BF142790.D 20 =BF142791.D 40 =BF142792.D 50 =BF142793.D 60 =BF142794.D 80 =BF1427
95.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.479	0.499	0.471	0.461	0.509	0.479	0.467	0.480	3.60
3)		Pyridine		1.190	1.195	1.190	1.164	1.303	1.209	1.181	1.205	3.78
4)		n-Nitrosodimet...			0.610	0.617	0.596	0.668	0.632	0.614	0.623	3.98
5)	S	2-Fluorophenol		2.475	2.460	2.460	2.299	2.525	2.342	2.256	2.403	4.26
6)		Aniline		1.951	1.944	1.891	1.818	1.982	1.869	1.746	1.886	4.41
7)	S	Phenol-d6		3.024	2.962	2.846	2.681	2.959	2.760	2.610	2.834	5.53
8)		2-Chlorophenol		1.362	1.303	1.292	1.245	1.366	1.272	1.231	1.296	4.08
9)		Benzaldehyde			0.988	0.943	0.757	0.832	0.684		0.841	15.02
10)	C	Phenol		1.648	1.653	1.591	1.516	1.651	1.530	1.437	1.575	5.31
11)		bis(2-Chloroet...		1.167	1.133	1.134	1.072	1.183	1.116	1.077	1.126	3.71
12)		1,3-Dichlorobe...		1.536	1.499	1.470	1.377	1.500	1.414	1.348	1.449	4.85
13)	C	1,4-Dichlorobe...		1.563	1.496	1.472	1.409	1.523	1.425	1.347	1.462	5.04
14)		1,2-Dichlorobe...		1.458	1.422	1.409	1.331	1.451	1.353	1.284	1.387	4.72
15)		Benzyl Alcohol			1.023	1.025	0.976	1.106	1.032	0.985	1.025	4.51
16)		2,2'-oxybis(1-...		1.975	1.869	1.815	1.723	1.879	1.758	1.644	1.809	6.12
17)		2-Methylphenol		1.015	0.997	0.980	0.938	1.043	0.972	0.929	0.982	4.13
18)		Hexachloroethane		0.533	0.521	0.507	0.499	0.539	0.498	0.484	0.511	3.89
19)	P	n-Nitroso-di-n...	0.831	0.879	0.840	0.833	0.787	0.847	0.812	0.766	0.824	4.30
20)		3+4-Methylphenols			1.292	1.262	1.176	1.312	1.197	1.108	1.224	6.36
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.464	0.451	0.459	0.418	0.461	0.428	0.406	0.441	5.28
23)	S	Nitrobenzene-d5		0.738	0.724	0.747	0.708	0.771	0.724	0.694	0.729	3.48
24)		Nitrobenzene		0.345	0.325	0.332	0.319	0.349	0.326	0.314	0.330	3.88
25)		Isophorone		0.611	0.582	0.592	0.555	0.616	0.584	0.554	0.585	4.17
26)	C	2-Nitrophenol		0.169	0.172	0.182	0.178	0.194	0.186	0.176	0.180	4.85
27)		2,4-Dimethylph...		0.322	0.310	0.318	0.300	0.329	0.307	0.294	0.311	3.99
28)		bis(2-Chloroet...		0.386	0.373	0.383	0.355	0.390	0.366	0.351	0.372	4.09
29)	C	2,4-Dichloroph...		0.291	0.280	0.290	0.273	0.298	0.277	0.268	0.282	3.77
30)		1,2,4-Trichlor...		0.324	0.316	0.318	0.299	0.324	0.301	0.292	0.310	4.26
31)		Naphthalene		1.051	1.002	1.004	0.934	1.017	0.943	0.902	0.979	5.46
32)		Benzoic acid			0.118	0.147	0.157	0.181	0.180	0.169	0.159	15.08
33)		4-Chloroaniline		0.414	0.408	0.409	0.379	0.421	0.393	0.363	0.398	5.26
34)	C	Hexachlorobuta...		0.195	0.188	0.198	0.184	0.200	0.184	0.179	0.190	4.30
35)		Caprolactam			0.073	0.075	0.072	0.081	0.078	0.069	0.075	5.84
36)	C	4-Chloro-3-met...		0.300	0.275	0.286	0.269	0.298	0.278	0.260	0.281	5.24
37)		2-Methylnaphth...		0.655	0.621	0.629	0.579	0.631	0.583	0.550	0.607	6.12
38)		1-Methylnaphth...		0.684	0.645	0.650	0.598	0.654	0.604	0.563	0.628	6.56

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.626	0.609	0.602	0.557	0.598	0.577	0.563	0.590	4.27
41)	P	Hexachlorocycl...		0.235	0.308	0.336	0.365	0.376	0.389	0.335	17.02
42)	S	2,4,6-Tribromo...	0.415	0.414	0.428	0.400	0.438	0.411	0.374	0.412	4.96
43)	C	2,4,6-Trichlor...	0.385	0.380	0.394	0.365	0.408	0.389	0.371	0.385	3.71
44)		2,4,5-Trichlor...	0.407	0.403	0.421	0.391	0.416	0.407	0.388	0.405	2.95
45)	S	2-Fluorobiphenyl	3.480	3.272	3.184	2.861	2.999	2.816	2.702	3.045	9.15
46)		1,1'-Biphenyl	1.701	1.616	1.637	1.505	1.609	1.525	1.466	1.580	5.27
47)		2-Chloronaphth...	1.300	1.202	1.208	1.129	1.209	1.145	1.106	1.186	5.50
48)		2-Nitroaniline	0.321	0.329	0.337	0.324	0.358	0.337	0.320	0.332	3.93
49)		Acenaphthylene	2.110	2.006	2.011	1.861	1.995	1.891	1.787	1.952	5.64
50)		Dimethylphthalate	1.372	1.334	1.330	1.228	1.335	1.277	1.186	1.295	5.17
51)		2,6-Dinitrotol...	0.297	0.279	0.290	0.277	0.294	0.284	0.268	0.284	3.57
52)	C	Acenaphthene	1.247	1.199	1.241	1.142	1.228	1.172	1.107	1.191	4.44
53)		3-Nitroaniline	0.311	0.311	0.316	0.302	0.338	0.320	0.292	0.313	4.52
54)	P	2,4-Dinitrophenol		0.095	0.129	0.142	0.173	0.163	0.152	0.142	19.61
55)		Dibenzofuran	1.844	1.772	1.763	1.626	1.752	1.660	1.537	1.708	6.13
56)	P	4-Nitrophenol		0.189	0.218	0.208	0.238	0.229	0.203	0.214	8.25
57)		2,4-Dinitrotol...	0.373	0.378	0.397	0.367	0.407	0.383	0.338	0.378	5.90
58)		Fluorene	1.464	1.412	1.395	1.260	1.362	1.260	1.183	1.334	7.58
59)		2,3,4,6-Tetrac...	0.327	0.327	0.339	0.312	0.345	0.331	0.304	0.326	4.43
60)		Diethylphthalate	1.328	1.302	1.319	1.211	1.318	1.266	1.141	1.269	5.50
61)		4-Chlorophenyl...	0.713	0.656	0.669	0.599	0.640	0.609	0.568	0.636	7.64
62)		4-Nitroaniline	0.279	0.276	0.297	0.272	0.316	0.300	0.264	0.286	6.48
63)		Azobenzene	1.215	1.149	1.167	1.081	1.176	1.122	1.032	1.134	5.47
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.099	0.119	0.119	0.134	0.130	0.125	0.121	10.04
66)	c	n-Nitrosodiphe...	0.736	0.686	0.710	0.670	0.717	0.671	0.662	0.693	4.07
67)		4-Bromophenyl-...	0.231	0.221	0.235	0.218	0.236	0.228	0.225	0.228	3.03
68)		Hexachlorobenzene	0.263	0.248	0.257	0.241	0.262	0.252	0.247	0.253	3.29
69)		Atrazine	0.176	0.172	0.180	0.174	0.195	0.183	0.174	0.179	4.48
70)	C	Pentachlorophenol		0.102	0.119	0.125	0.142	0.135	0.133	0.126	11.30
71)		Phenanthrene	1.183	1.113	1.115	1.031	1.122	1.028	0.992	1.083	6.24
72)		Anthracene	1.226	1.123	1.149	1.064	1.140	1.065	1.011	1.111	6.35
73)		Carbazole	1.040	0.986	0.999	0.900	1.002	0.920	0.866	0.959	6.67
74)		Di-n-butylphth...	0.997	1.006	1.045	0.946	1.073	0.989	0.936	0.999	4.92
75)	C	Fluoranthene	1.136	1.088	1.090	0.954	1.059	0.972	0.899	1.028	8.44
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.745	0.860	0.773	0.824	0.719	0.587	0.751	12.71
78)		Pyrene	2.110	1.940	1.968	1.742	2.030	1.863	1.468	1.875	11.43
79)	S	Terphenyl-d14	3.383	3.111	3.066	2.655	3.070	2.772	2.208	2.895	13.30
80)		Butylbenzylpht...	0.478	0.470	0.538	0.547	0.613	0.597	0.563	0.544	10.01
81)		Benzo(a)anthra...	1.392	1.358	1.366	1.265	1.403	1.376	1.284	1.349	3.98
82)		3,3'-Dichlorob...		0.398	0.440	0.429	0.476	0.445	0.438	0.438	5.73
83)		Chrysene	1.243	1.191	1.208	1.164	1.295	1.177	1.150	1.204	4.17
84)		Bis(2-ethylhex...	0.650	0.675	0.767	0.803	0.861	0.843	0.878	0.782	11.52
85)	c	Di-n-octyl pht...		1.207	1.352	1.463	1.610	1.569	1.651	1.475	11.54

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.528	1.488	1.545	1.474	1.648	1.539	1.442	1.523	4.38
88)		Benzo(b)fluora...	1.164	1.220	1.226	1.072	1.152	1.197	1.070	1.157	5.61
89)		Benzo(k)fluora...	1.206	1.004	1.035	1.037	1.193	1.038	1.068	1.083	7.55
90)	C	Benzo(a)pyrene	1.142	1.065	1.124	1.069	1.201	1.141	1.084	1.118	4.37
91)		Dibenzo(a,h)an...	1.249	1.214	1.293	1.180	1.337	1.240	1.152	1.238	5.13
92)		Benzo(g,h,i)pe...	1.239	1.198	1.266	1.188	1.332	1.255	1.161	1.234	4.66

(#) = Out of Range

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 08 18:32:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM050377.D 5 =BM050378.D 10 =BM050379.D 20 =BM050380.D 40 =BM050381.D 50 =BM050382.D 60 =BM050383.D 80 =BM0503
84.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.504	0.466	0.482	0.460	0.501	0.474	0.457	0.478	3.99
3)		Pyridine		1.249	1.197	1.256	1.228	1.336	1.279	1.236	1.254	3.52
4)		n-Nitrosodimet...			0.562	0.595	0.572	0.620	0.595	0.565	0.585	3.88
5)	S	2-Fluorophenol		1.126	1.079	1.149	1.152	1.258	1.202	1.168	1.162	4.89
6)		Aniline		1.784	1.702	1.844	1.878	2.042	1.987	1.921	1.880	6.20
7)	S	Phenol-d6		1.367	1.327	1.441	1.466	1.607	1.547	1.498	1.465	6.67
8)		2-Chlorophenol		1.135	1.105	1.219	1.217	1.341	1.301	1.258	1.225	6.89
9)		Benzaldehyde			0.944	0.985	0.897	0.837	0.694		0.871	13.03
10)	C	Phenol		1.460	1.412	1.516	1.508	1.666	1.598	1.535	1.528	5.51
11)		bis(2-Chloroet...		1.202	1.134	1.223	1.196	1.324	1.268	1.218	1.223	4.88
12)		1,3-Dichlorobe...		1.504	1.425	1.496	1.448	1.580	1.511	1.465	1.490	3.40
13)	C	1,4-Dichlorobe...		1.553	1.459	1.536	1.465	1.610	1.538	1.487	1.521	3.57
14)		1,2-Dichlorobe...		1.481	1.395	1.454	1.410	1.541	1.485	1.428	1.456	3.48
15)		Benzyl Alcohol			0.907	0.995	1.022	1.125	1.090	1.052	1.032	7.45
16)		2,2'-oxybis(1-...		1.835	1.741	1.818	1.752	1.907	1.821	1.741	1.802	3.41
17)		2-Methylphenol		0.922	0.898	0.980	0.990	1.089	1.048	1.008	0.991	6.71
18)		Hexachloroethane		0.518	0.501	0.532	0.520	0.574	0.556	0.543	0.535	4.66
19)	P	n-Nitroso-di-n...	0.790	0.805	0.808	0.888	0.911	1.005	0.968	0.924	0.887	9.01
20)		3+4-Methylphenols			1.170	1.296	1.325	1.458	1.393	1.338	1.330	7.29
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.493	0.479	0.501	0.491	0.534	0.513	0.489	0.500	3.69
23)	S	Nitrobenzene-d5		0.362	0.355	0.390	0.392	0.429	0.415	0.400	0.392	6.77
24)		Nitrobenzene		0.333	0.329	0.353	0.345	0.377	0.362	0.349	0.350	4.73
25)		Isophorone		0.571	0.574	0.634	0.640	0.702	0.679	0.652	0.636	7.73
26)	C	2-Nitrophenol		0.107	0.112	0.132	0.147	0.167	0.167	0.167	0.143	18.26
27)		2,4-Dimethylph...		0.295	0.275	0.301	0.299	0.329	0.317	0.308	0.303	5.63
28)		bis(2-Chloroet...		0.407	0.395	0.422	0.417	0.454	0.436	0.420	0.422	4.61
29)	C	2,4-Dichloroph...		0.277	0.279	0.311	0.312	0.344	0.334	0.325	0.312	8.26
30)		1,2,4-Trichlor...		0.370	0.349	0.369	0.362	0.397	0.385	0.378	0.373	4.21
31)		Naphthalene		1.033	0.975	1.024	0.988	1.071	1.029	0.992	1.016	3.26
32)		Benzoic acid			0.100	0.139	0.164	0.195	0.194	0.199	0.165	23.89
33)		4-Chloroaniline		0.398	0.397	0.427	0.429	0.465	0.453	0.437	0.429	6.00
34)	C	Hexachlorobuta...		0.222	0.209	0.222	0.221	0.244	0.239	0.235	0.228	5.37
35)		Caprolactam			0.064	0.081	0.087	0.096	0.093	0.090	0.085	13.87
36)	C	4-Chloro-3-met...		0.258	0.256	0.288	0.295	0.326	0.313	0.302	0.291	9.10
37)		2-Methylnaphth...		0.611	0.595	0.638	0.635	0.693	0.671	0.647	0.641	5.19
38)		1-Methylnaphth...		0.651	0.629	0.674	0.673	0.736	0.707	0.681	0.679	5.17

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.590	0.569	0.611	0.622	0.700	0.683	0.677	0.636	7.93
41)	P	Hexachlorocycl...		0.320	0.361	0.396	0.450	0.454	0.459	0.407	14.08
42)	S	2,4,6-Tribromo...	0.182	0.195	0.230	0.248	0.285	0.280	0.280	0.243	17.40
43)	C	2,4,6-Trichlor...	0.330	0.335	0.377	0.394	0.443	0.434	0.427	0.391	11.81
44)		2,4,5-Trichlor...	0.359	0.376	0.415	0.430	0.484	0.470	0.460	0.428	11.13
45)	S	2-Fluorobiphenyl	1.572	1.538	1.611	1.592	1.753	1.697	1.575	1.620	4.74
46)		1,1'-Biphenyl	1.464	1.419	1.479	1.441	1.586	1.527	1.471	1.484	3.79
47)		2-Chloronaphth...	1.164	1.126	1.187	1.150	1.267	1.217	1.171	1.183	3.93
48)		2-Nitroaniline	0.197	0.211	0.253	0.278	0.312	0.302	0.295	0.264	17.17
49)		Acenaphthylene	1.645	1.658	1.795	1.775	1.956	1.875	1.811	1.788	6.21
50)		Dimethylphthalate	1.323	1.285	1.368	1.351	1.506	1.432	1.373	1.377	5.29
51)		2,6-Dinitrotol...	0.196	0.224	0.263	0.273	0.308	0.297	0.289	0.264	15.41
52)	C	Acenaphthene	1.086	1.050	1.126	1.111	1.231	1.196	1.158	1.137	5.51
53)		3-Nitroaniline	0.204	0.231	0.278	0.294	0.330	0.319	0.311	0.281	16.81
54)	P	2,4-Dinitrophenol		0.074	0.097	0.117	0.140	0.147	0.150	0.121	25.40
55)		Dibenzofuran	1.747	1.674	1.756	1.709	1.880	1.784	1.711	1.751	3.84
56)	P	4-Nitrophenol		0.182	0.225	0.245	0.276	0.265	0.258	0.242	14.15
57)		2,4-Dinitrotol...	0.234	0.277	0.340	0.371	0.422	0.407	0.401	0.350	20.31
58)		Fluorene	1.348	1.328	1.428	1.419	1.582	1.522	1.470	1.443	6.29
59)		2,3,4,6-Tetrac...	0.299	0.306	0.355	0.365	0.405	0.397	0.392	0.360	11.92
60)		Diethylphthalate	1.217	1.210	1.319	1.309	1.454	1.379	1.320	1.315	6.51
61)		4-Chlorophenyl...	0.687	0.673	0.733	0.747	0.839	0.811	0.790	0.754	8.28
62)		4-Nitroaniline	0.192	0.228	0.284	0.311	0.350	0.331	0.320	0.288	20.10
63)		Azobenzene	1.085	1.116	1.234	1.208	1.335	1.272	1.204	1.208	7.15
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.057	0.077	0.094	0.109	0.113	0.117	0.095	24.90
66)	c	n-Nitrosodiphe...	0.572	0.577	0.620	0.623	0.678	0.658	0.654	0.626	6.49
67)		4-Bromophenyl-...	0.196	0.194	0.211	0.218	0.242	0.240	0.241	0.220	9.61
68)		Hexachlorobenzene	0.239	0.233	0.253	0.256	0.283	0.279	0.278	0.260	7.78
69)		Atrazine	0.166	0.175	0.199	0.211	0.232	0.228	0.227	0.206	12.95
70)	C	Pentachlorophenol		0.122	0.145	0.161	0.181	0.180	0.183	0.162	15.23
71)		Phenanthrene	1.119	1.070	1.119	1.101	1.206	1.163	1.143	1.132	3.91
72)		Anthracene	1.028	1.017	1.109	1.117	1.233	1.204	1.179	1.127	7.44
73)		Carbazole	0.939	0.944	1.009	1.010	1.108	1.073	1.052	1.019	6.23
74)		Di-n-butylphth...	0.954	0.961	1.091	1.140	1.252	1.216	1.196	1.116	10.76
75)	C	Fluoranthene	1.088	1.079	1.182	1.233	1.366	1.339	1.327	1.230	9.67
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.370	0.521	0.553	0.601	0.552	0.464	0.510	16.08
78)		Pyrene	1.198	1.177	1.260	1.260	1.388	1.366	1.316	1.281	6.26
79)	S	Terphenyl-d14	1.095	1.110	1.225	1.258	1.298	1.094	0.878	1.137	12.43
80)		Butylbenzylpht...	0.317	0.334	0.401	0.441	0.492	0.491	0.479	0.422	17.39
81)		Benzo(a)anthra...	1.204	1.202	1.282	1.282	1.428	1.379	1.345	1.303	6.57
82)		3,3'-Dichlorob...		0.351	0.406	0.429	0.498	0.487	0.465	0.439	12.66
83)		Chrysene	1.162	1.153	1.200	1.209	1.327	1.303	1.249	1.229	5.45
84)		Bis(2-ethylhex...	0.499	0.546	0.658	0.705	0.780	0.763	0.742	0.670	16.33
85)	c	Di-n-octyl pht...		0.742	0.931	1.058	1.193	1.194	1.183	1.050	17.44

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.208	1.238	1.374	1.415	1.603	1.564	1.551	1.422	11.17
88)		Benzo(b)fluora...	1.090	1.075	1.177	1.230	1.368	1.344	1.327	1.230	9.83
89)		Benzo(k)fluora...	1.105	1.138	1.247	1.263	1.444	1.387	1.350	1.276	9.86
90)	C	Benzo(a)pyrene	0.962	0.985	1.099	1.156	1.314	1.281	1.264	1.152	12.41
91)		Dibenzo(a,h)an...	1.022	1.035	1.159	1.193	1.352	1.320	1.301	1.198	11.23
92)		Benzo(g,h,i)pe...	0.992	1.001	1.097	1.121	1.263	1.232	1.216	1.132	9.73

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP070325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jul 03 16:05:44 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP025071.D 5 =BP025072.D 10 =BP025073.D 20 =BP025074.D 40 =BP025075.D 50 =BP025076.D 60 =BP025077.D 80 =BP0250
78.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.470	0.452	0.457	0.435	0.420	0.428	0.409	0.439	4.99
3)		Pyridine		1.176	1.153	1.243	1.228	1.171	1.239	1.203	1.202	3.00
4)		n-Nitrosodimet...			0.500	0.531	0.506	0.493	0.522	0.500	0.509	2.85
5)	S	2-Fluorophenol		1.070	1.098	1.179	1.134	1.127	1.168	1.127	1.129	3.33
6)		Aniline		1.334	1.324	1.430	1.388	1.371	1.428	1.359	1.376	3.05
7)	S	Phenol-d6		1.428	1.407	1.520	1.458	1.472	1.543	1.482	1.473	3.26
8)		2-Chlorophenol		1.254	1.207	1.320	1.256	1.250	1.294	1.259	1.263	2.83
9)		Benzaldehyde			0.903	0.894	0.724	0.684	0.641		0.769	15.84
10)	C	Phenol		1.473	1.461	1.551	1.472	1.485	1.540	1.493	1.497	2.36
11)		bis(2-Chloroet...		1.187	1.139	1.200	1.122	1.129	1.172	1.115	1.152	2.95
12)		1,3-Dichlorobe...		1.461	1.434	1.485	1.379	1.366	1.413	1.356	1.413	3.48
13)	C	1,4-Dichlorobe...		1.500	1.432	1.505	1.399	1.384	1.424	1.374	1.431	3.70
14)		1,2-Dichlorobe...		1.454	1.388	1.445	1.349	1.329	1.368	1.303	1.377	4.12
15)		Benzyl Alcohol			0.887	0.991	0.957	0.990	1.058	1.015	0.983	5.86
16)		2,2'-oxybis(1-...		1.587	1.520	1.570	1.433	1.462	1.497	1.415	1.498	4.40
17)		2-Methylphenol		0.887	0.908	1.007	0.969	0.974	1.021	0.983	0.964	5.11
18)		Hexachloroethane		0.476	0.441	0.480	0.460	0.463	0.481	0.462	0.466	3.04
19)	P	n-Nitroso-di-n...	0.815	0.862	0.854	0.938	0.865	0.871	0.912	0.872	0.874	4.26
20)		3+4-Methylphenols			1.246	1.383	1.334	1.341	1.428	1.370	1.350	4.55
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.480	0.481	0.502	0.465	0.456	0.480	0.447	0.473	3.88
23)	S	Nitrobenzene-d5		0.267	0.277	0.314	0.307	0.308	0.323	0.308	0.301	6.84
24)		Nitrobenzene		0.280	0.293	0.319	0.310	0.307	0.327	0.308	0.306	5.13
25)		Isophorone		0.525	0.534	0.587	0.558	0.571	0.597	0.561	0.562	4.67
26)	C	2-Nitrophenol		0.086	0.093	0.117	0.133	0.146	0.160	0.159	0.128	23.51
27)		2,4-Dimethylph...		0.199	0.195	0.218	0.208	0.213	0.224	0.210	0.210	4.79
28)		bis(2-Chloroet...		0.378	0.371	0.401	0.374	0.379	0.397	0.371	0.382	3.25
29)	C	2,4-Dichloroph...		0.242	0.263	0.298	0.299	0.304	0.321	0.306	0.291	9.48
30)		1,2,4-Trichlor...		0.319	0.319	0.331	0.319	0.316	0.335	0.314	0.322	2.53
31)		Naphthalene		1.057	1.030	1.081	1.011	1.005	1.049	0.975	1.030	3.47
32)		Benzoic acid			0.115	0.152	0.186	0.199	0.225	0.231	0.185	24.07
33)		4-Chloroaniline		0.358	0.370	0.399	0.390	0.381	0.411	0.381	0.384	4.58
34)	C	Hexachlorobuta...		0.187	0.180	0.188	0.182	0.184	0.191	0.180	0.185	2.31
35)		Caprolactam			0.087	0.101	0.101	0.098	0.108	0.102	0.099	7.23
36)	C	4-Chloro-3-met...		0.259	0.279	0.321	0.309	0.309	0.332	0.316	0.304	8.35
37)		2-Methylnaphth...		0.724	0.711	0.766	0.718	0.715	0.747	0.706	0.727	2.99
38)		1-Methylnaphth...		0.707	0.704	0.753	0.692	0.691	0.736	0.678	0.709	3.74

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP070325.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.554	0.549	0.584	0.580	0.578	0.610	0.568	0.575	3.56
41)	P	Hexachlorocycl...		0.120	0.135	0.149	0.162	0.171	0.164	0.150	13.13
42)	S	2,4,6-Tribromo...	0.194	0.214	0.240	0.246	0.244	0.266	0.249	0.236	10.22
43)	C	2,4,6-Trichlor...	0.271	0.295	0.355	0.370	0.368	0.399	0.379	0.348	13.51
44)		2,4,5-Trichlor...	0.326	0.349	0.406	0.411	0.412	0.441	0.416	0.394	10.41
45)	S	2-Fluorobiphenyl	1.338	1.310	1.361	1.279	1.260	1.311	1.177	1.291	4.70
46)		1,1'-Biphenyl	1.482	1.436	1.510	1.454	1.435	1.490	1.380	1.455	2.99
47)		2-Chloronaphth...	1.097	1.089	1.141	1.091	1.069	1.121	1.048	1.094	2.83
48)		2-Nitroaniline	0.157	0.185	0.235	0.259	0.259	0.289	0.273	0.237	20.49
49)		Acenaphthylene	1.582	1.622	1.771	1.701	1.660	1.761	1.620	1.674	4.36
50)		Dimethylphthalate	1.364	1.376	1.469	1.408	1.365	1.482	1.337	1.400	3.99
51)		2,6-Dinitrotol...	0.199	0.238	0.281	0.295	0.291	0.313	0.294	0.273	14.58
52)	C	Acenaphthene	1.085	1.074	1.142	1.066	1.047	1.111	1.027	1.079	3.59
53)		3-Nitroaniline	0.204	0.248	0.297	0.321	0.310	0.345	0.323	0.293	16.81
54)	P	2,4-Dinitrophenol		0.077	0.098	0.117	0.120	0.137	0.137	0.114	20.49
55)		Dibenzofuran	1.829	1.814	1.866	1.768	1.720	1.813	1.655	1.781	4.07
56)	P	4-Nitrophenol		0.212	0.260	0.285	0.274	0.301	0.289	0.270	11.73
57)		2,4-Dinitrotol...	0.231	0.285	0.364	0.392	0.387	0.430	0.406	0.356	20.13
58)		Fluorene	1.382	1.384	1.467	1.393	1.335	1.403	1.278	1.377	4.27
59)		2,3,4,6-Tetrac...	0.305	0.318	0.370	0.370	0.363	0.397	0.377	0.357	9.32
60)		Diethylphthalate	1.368	1.376	1.468	1.429	1.366	1.477	1.358	1.406	3.64
61)		4-Chlorophenyl...	0.711	0.687	0.710	0.679	0.659	0.700	0.626	0.682	4.47
62)		4-Nitroaniline	0.221	0.267	0.321	0.342	0.319	0.354	0.324	0.307	15.26
63)		Azobenzene	1.251	1.275	1.328	1.265	1.211	1.265	1.171	1.252	3.98
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.054	0.069	0.081	0.089	0.097	0.098	0.082	21.25
66)	c	n-Nitrosodiphe...	0.557	0.548	0.597	0.573	0.574	0.592	0.565	0.572	3.11
67)		4-Bromophenyl-...	0.191	0.190	0.213	0.205	0.208	0.214	0.213	0.205	5.14
68)		Hexachlorobenzene	0.255	0.240	0.255	0.247	0.248	0.257	0.249	0.250	2.28
69)		Atrazine	0.155	0.167	0.183	0.172	0.171	0.172	0.154	0.168	6.10
70)	C	Pentachlorophenol		0.131	0.163	0.172	0.178	0.186	0.184	0.169	12.03
71)		Phenanthrene	1.102	1.084	1.104	1.068	1.030	1.082	1.011	1.069	3.34
72)		Anthracene	0.998	0.996	1.092	1.036	1.021	1.062	0.971	1.025	4.10
73)		Carbazole	0.954	0.994	1.057	1.029	0.990	1.017	0.976	1.002	3.45
74)		Di-n-butylphth...	0.929	0.994	1.147	1.187	1.177	1.228	1.152	1.116	9.89
75)	C	Fluoranthene	1.170	1.222	1.330	1.290	1.249	1.268	1.215	1.249	4.22
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.177	0.354	0.571	0.420	0.288	0.310	0.353	37.82
78)		Pyrene	1.177	1.184	1.288	1.231	1.251	1.302	1.238	1.239	3.81
79)	S	Terphenyl-d14	0.943	0.919	0.978	0.914	0.915	0.936	0.764	0.910	7.50
80)		Butylbenzylpht...	0.228	0.276	0.377	0.440	0.471	0.519	0.499	0.402	28.01
81)		Benzo(a)anthra...	1.146	1.175	1.293	1.217	1.207	1.258	1.189	1.212	4.11
82)		3,3'-Dichlorob...		0.249	0.340	0.390	0.399	0.414	0.397	0.365	16.97
83)		Chrysene	1.169	1.147	1.223	1.159	1.157	1.191	1.118	1.166	2.88
84)		Bis(2-ethylhex...	0.460	0.520	0.646	0.703	0.737	0.764	0.720	0.650	17.89
85)	c	Di-n-octyl pht...		0.609	0.876	1.094	1.206	1.292	1.248	1.054	25.04

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP070325.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.003	1.101	1.318	1.331	1.366	1.433	1.366	1.274	12.44
88)		Benzo(b)fluora...	1.029	1.063	1.215	1.201	1.188	1.266	1.187	1.164	7.36
89)		Benzo(k)fluora...	1.070	1.129	1.249	1.153	1.157	1.218	1.133	1.158	5.11
90)	C	Benzo(a)pyrene	0.817	0.868	1.035	1.033	1.035	1.108	1.040	0.991	10.70
91)		Dibenzo(a,h)an...	0.840	0.921	1.098	1.097	1.126	1.172	1.118	1.053	11.66
92)		Benzo(g,h,i)pe...	0.915	0.967	1.126	1.127	1.142	1.197	1.142	1.088	9.58

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2529

Instrument ID: BNA_F Calibration Date/Time: 07/09/2025 10:52

Lab File ID: BF143048.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.190		-0.9	
Benzaldehyde	0.841	0.917		9.0	
Phenol-d6	1.417	1.399		-1.3	
Phenol	1.575	1.548		-1.7	20.0
bis(2-Chloroethyl)ether	1.126	1.113		-1.2	
2-Chlorophenol	1.296	1.293		-0.2	
2-Methylphenol	0.982	0.968		-1.4	
2,2-oxybis(1-Chloropropane)	1.809	1.636		-9.6	
Acetophenone	0.441	0.435		-1.4	
3+4-Methylphenols	1.224	1.238		1.1	
n-Nitroso-di-n-propylamine	0.824	0.819	0.050	-0.6	
Nitrobenzene-d5	0.365	0.383		4.9	
Hexachloroethane	0.511	0.503		-1.6	
Nitrobenzene	0.330	0.321		-2.7	
Isophorone	0.585	0.566		-3.2	
2-Nitrophenol	0.180	0.180		0.0	20.0
2,4-Dimethylphenol	0.311	0.298		-4.2	
bis(2-Chloroethoxy)methane	0.372	0.364		-2.2	
2,4-Dichlorophenol	0.282	0.277		-1.8	20.0
Naphthalene	0.979	0.942		-3.8	
4-Chloroaniline	0.398	0.385		-3.3	
Hexachlorobutadiene	0.190	0.187		-1.6	20.0
Caprolactam	0.075	0.073		-2.7	
4-Chloro-3-methylphenol	0.281	0.274		-2.5	20.0
2-Methylnaphthalene	0.607	0.598		-1.5	
Hexachlorocyclopentadiene	0.335	0.341	0.050	1.8	
2,4,6-Trichlorophenol	0.385	0.356		-7.5	20.0
2-Fluorobiphenyl	1.522	1.555		2.2	
2,4,5-Trichlorophenol	0.405	0.379		-6.4	
1,1-Biphenyl	1.580	1.532		-3.0	
2-Chloronaphthalene	1.186	1.134		-4.4	
2-Nitroaniline	0.332	0.317		-4.5	
Dimethylphthalate	1.295	1.268		-2.1	
Acenaphthylene	1.952	1.863		-4.6	
2,6-Dinitrotoluene	0.284	0.281		-1.1	
3-Nitroaniline	0.313	0.292		-6.7	
Acenaphthene	1.191	1.172		-1.6	20.0
2,4-Dinitrophenol	0.142	0.173	0.050	21.8	
4-Nitrophenol	0.214	0.250	0.050	16.8	

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2529

Instrument ID: BNA_F Calibration Date/Time: 07/09/2025 10:52

Lab File ID: BF143048.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.630		-4.6	
2,4-Dinitrotoluene	0.378	0.375		-0.8	
Diethylphthalate	1.269	1.231		-3.0	
4-Chlorophenyl-phenylether	0.636	0.620		-2.5	
Fluorene	1.334	1.292		-3.1	
4-Nitroaniline	0.286	0.271		-5.2	
4,6-Dinitro-2-methylphenol	0.121	0.118		-2.5	
n-Nitrosodiphenylamine	0.693	0.678		-2.2	20.0
2,4,6-Tribromophenol	0.206	0.202		-1.9	
4-Bromophenyl-phenylether	0.228	0.229		0.4	
Hexachlorobenzene	0.253	0.249		-1.6	
Atrazine	0.179	0.180		0.6	
Pentachlorophenol	0.126	0.181		43.7	20.0
Phenanthrene	1.083	1.038		-4.2	
Anthracene	1.111	1.064		-4.2	
Carbazole	0.959	0.897		-6.5	
Di-n-butylphthalate	0.999	0.985		-1.4	
Fluoranthene	1.028	0.934		-9.1	20.0
Pyrene	1.875	2.057		9.7	
Terphenyl-d14	1.447	1.481		2.3	
Butylbenzylphthalate	0.544	0.572		5.1	
3,3-Dichlorobenzidine	0.438	0.472		7.8	
Benzo(a)anthracene	1.349	1.327		-1.6	
Chrysene	1.204	1.179		-2.1	
Bis(2-ethylhexyl)phthalate	0.782	0.881		12.7	
Di-n-octyl phthalate	1.475	1.717		16.4	20.0
Benzo(b)fluoranthene	1.157	1.101		-4.8	
Benzo(k)fluoranthene	1.083	1.058		-2.3	
Benzo(a)pyrene	1.118	1.086		-2.9	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.452		-4.7	
Dibenzo(a,h)anthracene	1.238	1.181		-4.6	
Benzo(g,h,i)perylene	1.234	1.161		-5.9	
1,2,4,5-Tetrachlorobenzene	0.590	0.572		-3.1	
1,4-Dioxane	0.480	0.441		-8.1	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.318		-2.5	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2529

Instrument ID: BNA_M Calibration Date/Time: 07/10/2025 13:53

Lab File ID: BM050388.D Init. Calib. Date(s): 07/08/2025 07/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:39 17:22

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.162	1.137		-2.2	
Benzaldehyde	0.871	0.886		1.7	
Phenol-d6	1.465	1.465		0.0	
Phenol	1.528	1.499		-1.9	20.0
bis(2-Chloroethyl)ether	1.223	1.182		-3.4	
2-Chlorophenol	1.225	1.199		-2.1	
2-Methylphenol	0.991	0.969		-2.2	
2,2-oxybis(1-Chloropropane)	1.802	1.740		-3.4	
Acetophenone	0.500	0.491		-1.8	
3+4-Methylphenols	1.330	1.291		-2.9	
n-Nitroso-di-n-propylamine	0.887	0.900	0.050	1.5	
Nitrobenzene-d5	0.392	0.394		0.5	
Hexachloroethane	0.535	0.517		-3.4	
Nitrobenzene	0.350	0.343		-2.0	
Isophorone	0.636	0.632		-0.6	
2-Nitrophenol	0.143	0.148		3.5	20.0
2,4-Dimethylphenol	0.303	0.297		-2.0	
bis(2-Chloroethoxy)methane	0.422	0.412		-2.4	
2,4-Dichlorophenol	0.312	0.314		0.6	20.0
Naphthalene	1.016	0.983		-3.2	
4-Chloroaniline	0.429	0.429		0.0	
Hexachlorobutadiene	0.228	0.218		-4.4	20.0
Caprolactam	0.085	0.085		0.0	
4-Chloro-3-methylphenol	0.291	0.293		0.7	20.0
2-Methylnaphthalene	0.641	0.636		-0.8	
Hexachlorocyclopentadiene	0.407	0.380	0.050	-6.6	
2,4,6-Trichlorophenol	0.391	0.393		0.5	20.0
2-Fluorobiphenyl	1.620	1.599		-1.3	
2,4,5-Trichlorophenol	0.428	0.426		-0.5	
1,1-Biphenyl	1.484	1.456		-1.9	
2-Chloronaphthalene	1.183	1.166		-1.4	
2-Nitroaniline	0.264	0.275		4.2	
Dimethylphthalate	1.377	1.353		-1.7	
Acenaphthylene	1.788	1.781		-0.4	
2,6-Dinitrotoluene	0.264	0.276		4.5	
3-Nitroaniline	0.281	0.295		5.0	
Acenaphthene	1.137	1.124		-1.1	20.0
2,4-Dinitrophenol	0.121	0.118	0.050	-2.5	
4-Nitrophenol	0.242	0.244	0.050	0.8	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2529

Instrument ID: BNA_M Calibration Date/Time: 07/10/2025 13:53

Lab File ID: BM050388.D Init. Calib. Date(s): 07/08/2025 07/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:39 17:22

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.751	1.711		-2.3	
2,4-Dinitrotoluene	0.350	0.373		6.6	
Diethylphthalate	1.315	1.303		-0.9	
4-Chlorophenyl-phenylether	0.754	0.742		-1.6	
Fluorene	1.443	1.428		-1.0	
4-Nitroaniline	0.288	0.312		8.3	
4,6-Dinitro-2-methylphenol	0.095	0.094		-1.1	
n-Nitrosodiphenylamine	0.626	0.618		-1.3	20.0
2,4,6-Tribromophenol	0.243	0.249		2.5	
4-Bromophenyl-phenylether	0.220	0.217		-1.4	
Hexachlorobenzene	0.260	0.254		-2.3	
Atrazine	0.206	0.205		-0.5	
Pentachlorophenol	0.162	0.157		-3.1	20.0
Phenanthrene	1.132	1.096		-3.2	
Anthracene	1.127	1.112		-1.3	
Carbazole	1.019	1.003		-1.6	
Di-n-butylphthalate	1.116	1.115		-0.1	
Fluoranthene	1.230	1.217		-1.1	20.0
Pyrene	1.281	1.262		-1.5	
Terphenyl-d14	1.137	1.220		7.3	
Butylbenzylphthalate	0.422	0.437		3.6	
3,3-Dichlorobenzidine	0.439	0.422		-3.9	
Benzo(a)anthracene	1.303	1.292		-0.8	
Chrysene	1.229	1.206		-1.9	
Bis(2-ethylhexyl)phthalate	0.670	0.700		4.5	
Di-n-octyl phthalate	1.050	1.069		1.8	20.0
Benzo(b)fluoranthene	1.230	1.224		-0.5	
Benzo(k)fluoranthene	1.276	1.284		0.6	
Benzo(a)pyrene	1.152	1.165		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.422	1.436		1.0	
Dibenzo(a,h)anthracene	1.198	1.209		0.9	
Benzo(g,h,i)perylene	1.132	1.140		0.7	
1,2,4,5-Tetrachlorobenzene	0.636	0.622		-2.2	
1,4-Dioxane	0.478	0.451		-5.6	20.0
2,3,4,6-Tetrachlorophenol	0.360	0.358		-0.6	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2529

Instrument ID: BNA_P Calibration Date/Time: 07/10/2025 14:04

Lab File ID: BP025082.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.129	1.128		-0.1	
Benzaldehyde	0.769	0.676		-12.1	
Phenol-d6	1.473	1.499		1.8	
Phenol	1.497	1.506		0.6	20.0
bis(2-Chloroethyl)ether	1.152	1.158		0.5	
2-Chlorophenol	1.263	1.274		0.9	
2-Methylphenol	0.964	0.990		2.7	
2,2-oxybis(1-Chloropropane)	1.498	1.516		1.2	
Acetophenone	0.473	0.455		-3.8	
3+4-Methylphenols	1.350	1.349		-0.1	
n-Nitroso-di-n-propylamine	0.874	0.899	0.050	2.9	
Nitrobenzene-d5	0.301	0.307		2.0	
Hexachloroethane	0.466	0.475		1.9	
Nitrobenzene	0.306	0.311		1.6	
Isophorone	0.562	0.555		-1.2	
2-Nitrophenol	0.128	0.134		4.7	20.0
2,4-Dimethylphenol	0.210	0.205		-2.4	
bis(2-Chloroethoxy)methane	0.382	0.375		-1.8	
2,4-Dichlorophenol	0.291	0.293		0.7	20.0
Naphthalene	1.030	1.002		-2.7	
4-Chloroaniline	0.384	0.377		-1.8	
Hexachlorobutadiene	0.185	0.180		-2.7	20.0
Caprolactam	0.099	0.095		-4.0	
4-Chloro-3-methylphenol	0.304	0.305		0.3	20.0
2-Methylnaphthalene	0.727	0.709		-2.5	
Hexachlorocyclopentadiene	0.150	0.159	0.050	6.0	
2,4,6-Trichlorophenol	0.348	0.364		4.6	20.0
2-Fluorobiphenyl	1.291	1.301		0.8	
2,4,5-Trichlorophenol	0.394	0.412		4.6	
1,1-Biphenyl	1.455	1.443		-0.8	
2-Chloronaphthalene	1.094	1.099		0.5	
2-Nitroaniline	0.237	0.260		9.7	
Dimethylphthalate	1.400	1.389		-0.8	
Acenaphthylene	1.674	1.683		0.5	
2,6-Dinitrotoluene	0.273	0.287		5.1	
3-Nitroaniline	0.293	0.315		7.5	
Acenaphthene	1.079	1.064		-1.4	20.0
2,4-Dinitrophenol	0.114	0.116	0.050	1.8	
4-Nitrophenol	0.270	0.274	0.050	1.5	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2529

Instrument ID: BNA_P Calibration Date/Time: 07/10/2025 14:04

Lab File ID: BP025082.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.781	1.758		-1.3	
2,4-Dinitrotoluene	0.356	0.389		9.3	
Diethylphthalate	1.406	1.421		1.1	
4-Chlorophenyl-phenylether	0.682	0.673		-1.3	
Fluorene	1.377	1.368		-0.7	
4-Nitroaniline	0.307	0.331		7.8	
4,6-Dinitro-2-methylphenol	0.082	0.083		1.2	
n-Nitrosodiphenylamine	0.572	0.563		-1.6	20.0
2,4,6-Tribromophenol	0.236	0.238		0.8	
4-Bromophenyl-phenylether	0.205	0.204		-0.5	
Hexachlorobenzene	0.250	0.246		-1.6	
Atrazine	0.168	0.158		-6.0	
Pentachlorophenol	0.169	0.172		1.8	20.0
Phenanthrene	1.069	1.054		-1.4	
Anthracene	1.025	1.036		1.1	
Carbazole	1.002	1.007		0.5	
Di-n-butylphthalate	1.116	1.178		5.6	
Fluoranthene	1.249	1.257		0.6	20.0
Pyrene	1.239	1.223		-1.3	
Terphenyl-d14	0.910	0.936		2.9	
Butylbenzylphthalate	0.402	0.460		14.4	
3,3-Dichlorobenzidine	0.365	0.399		9.3	
Benzo(a)anthracene	1.212	1.214		0.2	
Chrysene	1.166	1.155		-0.9	
Bis(2-ethylhexyl)phthalate	0.650	0.713		9.7	
Di-n-octyl phthalate	1.054	1.169		10.9	20.0
Benzo(b)fluoranthene	1.164	1.196		2.7	
Benzo(k)fluoranthene	1.158	1.154		-0.3	
Benzo(a)pyrene	0.991	1.037		4.6	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.327		4.2	
Dibenzo(a,h)anthracene	1.053	1.107		5.1	
Benzo(g,h,i)perylene	1.088	1.118		2.8	
1,2,4,5-Tetrachlorobenzene	0.575	0.582		1.2	
1,4-Dioxane	0.439	0.424		-3.4	20.0
2,3,4,6-Tetrachlorophenol	0.357	0.369		3.4	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2529

Instrument ID: BNA_P Calibration Date/Time: 07/16/2025 12:42

Lab File ID: BP025155.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.129	1.127		-0.2	
Benzaldehyde	0.769	0.625		-18.7	
Phenol-d6	1.473	1.456		-1.2	
Phenol	1.497	1.451		-3.1	20.0
bis(2-Chloroethyl)ether	1.152	1.106		-4.0	
2-Chlorophenol	1.263	1.281		1.4	
2-Methylphenol	0.964	0.980		1.7	
2,2-oxybis(1-Chloropropane)	1.498	1.353		-9.7	
Acetophenone	0.473	0.462		-2.3	
3+4-Methylphenols	1.350	1.353		0.2	
n-Nitroso-di-n-propylamine	0.874	0.858	0.050	-1.8	
Nitrobenzene-d5	0.301	0.315		4.7	
Hexachloroethane	0.466	0.474		1.7	
Nitrobenzene	0.306	0.312		2.0	
Isophorone	0.562	0.566		0.7	
2-Nitrophenol	0.128	0.181		41.4	20.0
2,4-Dimethylphenol	0.210	0.215		2.4	
bis(2-Chloroethoxy)methane	0.382	0.379		-0.8	
2,4-Dichlorophenol	0.291	0.318		9.3	20.0
Naphthalene	1.030	1.012		-1.7	
4-Chloroaniline	0.384	0.391		1.8	
Hexachlorobutadiene	0.185	0.194		4.9	20.0
Caprolactam	0.099	0.105		6.1	
4-Chloro-3-methylphenol	0.304	0.323		6.3	20.0
2-Methylnaphthalene	0.727	0.726		-0.1	
Hexachlorocyclopentadiene	0.150	0.183	0.050	22.0	
2,4,6-Trichlorophenol	0.348	0.402		15.5	20.0
2-Fluorobiphenyl	1.291	1.243		-3.7	
2,4,5-Trichlorophenol	0.394	0.436		10.7	
1,1-Biphenyl	1.455	1.427		-1.9	
2-Chloronaphthalene	1.094	1.096		0.2	
2-Nitroaniline	0.237	0.281		18.6	
Dimethylphthalate	1.400	1.424		1.7	
Acenaphthylene	1.674	1.681		0.4	
2,6-Dinitrotoluene	0.273	0.307		12.5	
3-Nitroaniline	0.293	0.331		13.0	
Acenaphthene	1.079	1.056		-2.1	20.0
2,4-Dinitrophenol	0.114	0.172	0.050	50.9	
4-Nitrophenol	0.270	0.298	0.050	10.4	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2529

Instrument ID: BNA_P Calibration Date/Time: 07/16/2025 12:42

Lab File ID: BP025155.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.781	1.741		-2.2	
2,4-Dinitrotoluene	0.356	0.420		18.0	
Diethylphthalate	1.406	1.422		1.1	
4-Chlorophenyl-phenylether	0.682	0.683		0.1	
Fluorene	1.377	1.344		-2.4	
4-Nitroaniline	0.307	0.349		13.7	
4,6-Dinitro-2-methylphenol	0.082	0.120		46.3	
n-Nitrosodiphenylamine	0.572	0.589		3.0	20.0
2,4,6-Tribromophenol	0.236	0.289		22.5	
4-Bromophenyl-phenylether	0.205	0.226		10.2	
Hexachlorobenzene	0.250	0.266		6.4	
Atrazine	0.168	0.189		12.5	
Pentachlorophenol	0.169	0.198		17.2	20.0
Phenanthrene	1.069	1.030		-3.6	
Anthracene	1.025	1.026		0.1	
Carbazole	1.002	0.998		-0.4	
Di-n-butylphthalate	1.116	1.239		11.0	
Fluoranthene	1.249	1.254		0.4	20.0
Pyrene	1.239	1.265		2.1	
Terphenyl-d14	0.910	0.912		0.2	
Butylbenzylphthalate	0.402	0.541		34.6	
3,3-Dichlorobenzidine	0.365	0.456		24.9	
Benzo(a)anthracene	1.212	1.209		-0.2	
Chrysene	1.166	1.138		-2.4	
Bis(2-ethylhexyl)phthalate	0.650	0.792		21.8	
Di-n-octyl phthalate	1.054	1.357		28.7	20.0
Benzo(b)fluoranthene	1.164	1.147		-1.5	
Benzo(k)fluoranthene	1.158	1.093		-5.6	
Benzo(a)pyrene	0.991	1.020		2.9	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.358		6.6	
Dibenzo(a,h)anthracene	1.053	1.127		7.0	
Benzo(g,h,i)perylene	1.088	1.140		4.8	
1,2,4,5-Tetrachlorobenzene	0.575	0.598		4.0	
1,4-Dioxane	0.439	0.407		-7.3	20.0
2,3,4,6-Tetrachlorophenol	0.357	0.403		12.9	

All other compounds must meet a minimum RRF of 0.010.