

Hit Summary Sheet SW-846

SDG No.: Q2413
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-35								
Q2413-01	TP-35	SOIL	Phenanthrene	160.000	J	23.5	190	ug/Kg
Q2413-01	TP-35	SOIL	Fluoranthene	440.000		33.7	190	ug/Kg
Q2413-01	TP-35	SOIL	Pyrene	250.000		40.4	190	ug/Kg
Q2413-01	TP-35	SOIL	Benzo(a)anthracene	250.000		25.8	190	ug/Kg
Q2413-01	TP-35	SOIL	Chrysene	220.000		22.4	190	ug/Kg
Q2413-01	TP-35	SOIL	Benzo(b)fluoranthene	320.000		21.3	190	ug/Kg
Q2413-01	TP-35	SOIL	Benzo(k)fluoranthene	130.000	J	25.2	190	ug/Kg
Q2413-01	TP-35	SOIL	Benzo(a)pyrene	220.000		33.1	190	ug/Kg
Q2413-01	TP-35	SOIL	Indeno(1,2,3-cd)pyrene	83.100	J	32.7	190	ug/Kg
Q2413-01	TP-35	SOIL	Benzo(g,h,i)perylene	85.000	J	28.9	190	ug/Kg
Total Svoc :				2,158.10				
Q2413-01	TP-35	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	230.000	A	0	0	ug/Kg
Q2413-01	TP-35	SOIL	Benzo[e]pyrene *	160.000	J	0	0	ug/Kg
Q2413-01	TP-35	SOIL	Benzophenone *	260.000	J	0	0	ug/Kg
Q2413-01	TP-35	SOIL	n-Hexadecanoic acid *	140.000	J	0	0	ug/Kg
Q2413-01	TP-35	SOIL	Pentafluoropropionic acid, heptad *	110.000	J	0	0	ug/Kg
Total Tics :				900.00				
Total Concentration:				3,058.10				
Client ID : TP-34								
Q2413-02	TP-34	SOIL	Fluoranthene	130.000	J	32.6	180	ug/Kg
Q2413-02	TP-34	SOIL	Pyrene	75.500	J	39.1	180	ug/Kg
Q2413-02	TP-34	SOIL	Benzo(a)anthracene	100.000	J	25	180	ug/Kg
Q2413-02	TP-34	SOIL	Chrysene	83.400	J	21.6	180	ug/Kg
Q2413-02	TP-34	SOIL	Benzo(b)fluoranthene	200.000		20.6	180	ug/Kg
Q2413-02	TP-34	SOIL	Benzo(a)pyrene	120.000	J	32	180	ug/Kg
Total Svoc :				708.90				
Q2413-02	TP-34	SOIL	Benzo[e]pyrene *	96.300	J	0	0	ug/Kg
Q2413-02	TP-34	SOIL	Benzophenone *	260.000	J	0	0	ug/Kg
Q2413-02	TP-34	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	230.000	A	0	0	ug/Kg
Q2413-02	TP-34	SOIL	Trifluoroacetoxy hexadecane *	120.000	J	0	0	ug/Kg
Q2413-02	TP-34	SOIL	n-Hexadecanoic acid *	130.000	J	0	0	ug/Kg
Total Tics :				836.30				
Total Concentration:				1,545.20				
Client ID : TP-77								
Q2413-03	TP-77	SOIL	Fluoranthene	75.700	J	32.7	190	ug/Kg
Total Svoc :				75.70				
Q2413-03	TP-77	SOIL	n-Hexadecanoic acid *	150.000	J	0	0	ug/Kg

Hit Summary Sheet

SW-846

SDG No.: Q2413

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units	
Q2413-03	TP-77	SOIL	1-Hexacosene	*	140.000	J	0	0	ug/Kg
Q2413-03	TP-77	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	A	0	0	ug/Kg
Q2413-03	TP-77	SOIL	Benzo[j]fluoranthene	*	110.000	J	0	0	ug/Kg
Q2413-03	TP-77	SOIL	Benzophenone	*	280.000	J	0	0	ug/Kg
Total Tics :					910.00				
Total Concentration:					985.70				

Client ID : TP-74

Q2413-04	TP-74	SOIL	Fluoranthene	79.000	J	33.5	190	ug/Kg
Q2413-04	TP-74	SOIL	Benzo(b)fluoranthene	76.400	J	21.2	190	ug/Kg
Total Svoc :				155.40				
Q2413-04	TP-74	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	210.000	A	0	0	ug/Kg
Q2413-04	TP-74	SOIL	n-Hexadecanoic acid *	110.000	J	0	0	ug/Kg
Q2413-04	TP-74	SOIL	Trifluoroacetic acid, pentadecyl e *	90.700	J	0	0	ug/Kg
Q2413-04	TP-74	SOIL	Benzophenone *	250.000	J	0	0	ug/Kg
Total Tics :				660.70				
Total Concentration:				816.10				

Client ID : TP-73

Q2413-05	TP-73	SOIL	Diethylphthalate	130.000	J	36.7	220	ug/Kg
Total Svoc :				130.00				
Q2413-05	TP-73	SOIL	1,2,4,8-Tetramethylbicyclo[6.3.0]i *	260.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	270.000	A	0	0	ug/Kg
Q2413-05	TP-73	SOIL	7,9-Di-tert-butyl-1-oxaspiro(4,5)d *	90.700	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Aromandendrene *	220.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Benzophenone *	350.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Cyclopentadecane *	120.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	n-Hexadecanoic acid *	480.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Octacosane *	160.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Octacosanol *	170.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Octadecanal *	98.500	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Octadecanoic acid *	120.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Octadecyl trifluoroacetate *	440.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Oxirane, heptadecyl- *	91.600	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Pentadecafluorooctanoic acid, octa *	540.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Tetratetracontane *	180.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	unknown17.645 *	110.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	unknown17.727 *	170.000	J	0	0	ug/Kg
Total Tics :				3,870.80				
Total Concentration:				4,000.80				

Client ID : TP-72

Hit Summary Sheet SW-846

SDG No.: Q2413
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-06	TP-72	SOIL	11-Methyltricosane	*	250.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	1-Ethyl-4-methylcyclohexane	*	100.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	330.000	A 0	0	ug/Kg
Q2413-06	TP-72	SOIL	5-Eicosene, (E)-	*	290.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Benzophenone	*	320.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	cis-3-Nonene	*	90.400	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2,4-trimethyl-	*	87.300	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2,4-trimethyl-, (1.	*	130.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2-dimethyl-, trans	*	78.100	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,3,5-trimethyl-, (1.	*	150.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1-ethyl-2-methyl-	*	120.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Docosane	*	200.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Heptadecane	*	93.800	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Hexacosane	*	150.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	n-Hexadecanoic acid	*	170.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Nonadecane	*	120.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Nonane	*	160.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Octadecane	*	83.100	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Tricosane	*	230.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Tridecane	*	92.700	J 0	0	ug/Kg

Total Tics : 3,245.40

Total Concentration: 3,245.40



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.8
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
BF142889.D	1	06/26/25 09:20	06/27/25 13:19	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	370	ug/Kg
108-95-2	Phenol	24.8	U	24.8	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.3	U	27.3	190	ug/Kg
95-57-8	2-Chlorophenol	27.4	U	27.4	190	ug/Kg
95-48-7	2-Methylphenol	33.6	U	33.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.1	U	42.1	190	ug/Kg
98-86-2	Acetophenone	33.1	U	33.1	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.2	U	46.2	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.3	U	53.3	89.9	ug/Kg
67-72-1	Hexachloroethane	19.8	U	19.8	190	ug/Kg
98-95-3	Nitrobenzene	20.6	U	20.6	190	ug/Kg
78-59-1	Isophorone	36.9	U	36.9	190	ug/Kg
88-75-5	2-Nitrophenol	65.4	U	65.4	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.8	U	72.8	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.6	U	34.6	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.8	U	31.8	190	ug/Kg
91-20-3	Naphthalene	25.5	U	25.5	190	ug/Kg
106-47-8	4-Chloroaniline	39.8	U	39.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.4	U	28.4	190	ug/Kg
105-60-2	Caprolactam	58.5	U	58.5	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.2	U	32.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.8	U	28.8	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.2	U	22.2	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.7	U	32.7	190	ug/Kg
92-52-4	1,1-Biphenyl	24.5	U	24.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.3	U	25.3	190	ug/Kg
88-74-4	2-Nitroaniline	54.0	U	54.0	190	ug/Kg
131-11-3	Dimethylphthalate	30.4	U	30.4	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.8
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
BF142889.D	1	06/26/25 09:20	06/27/25 13:19	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.5	U	32.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.7	U	37.7	190	ug/Kg
99-09-2	3-Nitroaniline	51.7	U	51.7	190	ug/Kg
83-32-9	Acenaphthene	23.9	U	23.9	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	25.5	U	25.5	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.3	U	56.3	190	ug/Kg
84-66-2	Diethylphthalate	31.8	U	31.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.0	U	30.0	190	ug/Kg
86-73-7	Fluorene	28.4	U	28.4	190	ug/Kg
100-01-6	4-Nitroaniline	72.1	U	72.1	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.0	U	37.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.2	U	31.2	190	ug/Kg
118-74-1	Hexachlorobenzene	28.4	U	28.4	190	ug/Kg
1912-24-9	Atrazine	38.2	U	38.2	190	ug/Kg
87-86-5	Pentachlorophenol	57.6	U	57.6	370	ug/Kg
85-01-8	Phenanthrene	160	J	23.5	190	ug/Kg
120-12-7	Anthracene	37.4	U	37.4	190	ug/Kg
86-74-8	Carbazole	35.1	U	35.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.8	U	53.8	190	ug/Kg
206-44-0	Fluoranthene	440		33.7	190	ug/Kg
129-00-0	Pyrene	250		40.4	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.2	U	80.2	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.2	U	41.2	370	ug/Kg
56-55-3	Benzo(a)anthracene	250		25.8	190	ug/Kg
218-01-9	Chrysene	220		22.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.5	U	66.5	190	ug/Kg
117-84-0	Di-n-octyl phthalate	97.5	U	97.5	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	320		21.3	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.8
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
BF142889.D	1	06/26/25 09:20	06/27/25 13:19	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	J	25.2	190	ug/Kg
50-32-8	Benzo(a)pyrene	220		33.1	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	83.1	J	32.7	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.8	U	30.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	85.0	J	28.9	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.8	U	28.8	190	ug/Kg
123-91-1	1,4-Dioxane	50.8	U	50.8	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.8	U	30.8	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	81.2		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	82.7		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.3		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.7		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.5		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	38.7		10 - 105	39%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	69800	6.875
1146-65-2	Naphthalene-d8	264000	8.157
15067-26-2	Acenaphthene-d10	134000	9.916
1517-22-2	Phenanthrene-d10	200000	11.404
1719-03-5	Chrysene-d12	149000	14.051
1520-96-3	Perylene-d12	153000	15.545

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	A	5.09	ug/Kg
000119-61-9	Benzophenone	260	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	140	J	11.9	ug/Kg
959218-78-1	Pentafluoropropionic acid, heptade	110	J	13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	160	J	15.4	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.8
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BF142889.D	1	06/26/25 09:20	06/27/25 13:19	PB168625

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92
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
BF142892.D	1	06/26/25 09:20	06/27/25 14:47	PB168625

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	24.0	U	24.0	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.4	U	26.4	180	ug/Kg
95-57-8	2-Chlorophenol	26.5	U	26.5	180	ug/Kg
95-48-7	2-Methylphenol	32.5	U	32.5	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.7	U	40.7	180	ug/Kg
98-86-2	Acetophenone	32.0	U	32.0	180	ug/Kg
65794-96-9	3+4-Methylphenols	44.6	U	44.6	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.5	U	51.5	86.9	ug/Kg
67-72-1	Hexachloroethane	19.1	U	19.1	180	ug/Kg
98-95-3	Nitrobenzene	19.9	U	19.9	180	ug/Kg
78-59-1	Isophorone	35.6	U	35.6	180	ug/Kg
88-75-5	2-Nitrophenol	63.2	U	63.2	180	ug/Kg
105-67-9	2,4-Dimethylphenol	70.4	U	70.4	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.4	U	33.4	180	ug/Kg
120-83-2	2,4-Dichlorophenol	30.7	U	30.7	180	ug/Kg
91-20-3	Naphthalene	24.6	U	24.6	180	ug/Kg
106-47-8	4-Chloroaniline	38.4	U	38.4	180	ug/Kg
87-68-3	Hexachlorobutadiene	27.5	U	27.5	180	ug/Kg
105-60-2	Caprolactam	56.6	U	56.6	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.2	U	31.2	180	ug/Kg
91-57-6	2-Methylnaphthalene	27.8	U	27.8	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.5	U	21.5	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.6	U	31.6	180	ug/Kg
92-52-4	1,1-Biphenyl	23.7	U	23.7	180	ug/Kg
91-58-7	2-Chloronaphthalene	24.4	U	24.4	180	ug/Kg
88-74-4	2-Nitroaniline	52.2	U	52.2	180	ug/Kg
131-11-3	Dimethylphthalate	29.4	U	29.4	180	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92
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
BF142892.D	1	06/26/25 09:20	06/27/25 14:47	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.4	U	31.4	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.5	U	36.5	180	ug/Kg
99-09-2	3-Nitroaniline	50.0	U	50.0	180	ug/Kg
83-32-9	Acenaphthene	23.1	U	23.1	180	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	24.6	U	24.6	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.4	U	54.4	180	ug/Kg
84-66-2	Diethylphthalate	30.7	U	30.7	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.0	U	29.0	180	ug/Kg
86-73-7	Fluorene	27.5	U	27.5	180	ug/Kg
100-01-6	4-Nitroaniline	69.7	U	69.7	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.7	U	35.7	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.2	U	30.2	180	ug/Kg
118-74-1	Hexachlorobenzene	27.5	U	27.5	180	ug/Kg
1912-24-9	Atrazine	36.9	U	36.9	180	ug/Kg
87-86-5	Pentachlorophenol	55.7	U	55.7	360	ug/Kg
85-01-8	Phenanthrene	22.7	U	22.7	180	ug/Kg
120-12-7	Anthracene	36.2	U	36.2	180	ug/Kg
86-74-8	Carbazole	33.9	U	33.9	180	ug/Kg
84-74-2	Di-n-butylphthalate	52.0	U	52.0	180	ug/Kg
206-44-0	Fluoranthene	130	J	32.6	180	ug/Kg
129-00-0	Pyrene	75.5	J	39.1	180	ug/Kg
85-68-7	Butylbenzylphthalate	77.5	U	77.5	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	39.9	U	39.9	360	ug/Kg
56-55-3	Benzo(a)anthracene	100	J	25.0	180	ug/Kg
218-01-9	Chrysene	83.4	J	21.6	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.3	U	64.3	180	ug/Kg
117-84-0	Di-n-octyl phthalate	94.3	U	94.3	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	200		20.6	180	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92
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
BF142892.D	1	06/26/25 09:20	06/27/25 14:47	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.3	U	24.3	180	ug/Kg
50-32-8	Benzo(a)pyrene	120	J	32.0	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31.6	U	31.6	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.8	U	29.8	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	27.9	U	27.9	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.8	U	27.8	180	ug/Kg
123-91-1	1,4-Dioxane	49.1	U	49.1	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.8	U	29.8	180	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	81.5		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	82.0		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.4		18 - 107	53%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.9		20 - 109	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.9		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	36.2		10 - 105	36%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	74200	6.875
1146-65-2	Naphthalene-d8	268000	8.157
15067-26-2	Acenaphthene-d10	125000	9.916
1517-22-2	Phenanthrene-d10	186000	11.404
1719-03-5	Chrysene-d12	169000	14.051
1520-96-3	Perylene-d12	135000	15.545

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	A	5.09	ug/Kg
000119-61-9	Benzophenone	260	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J	11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	120	J	13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	96.3	J	15.4	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BF142892.D	1	06/26/25 09:20	06/27/25 14:47	PB168625

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		Final Vol:	1000
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142890.D	1	06/26/25 09:20	06/27/25 13:48	PB168625

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	24.1	U	24.1	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.5	U	26.5	190	ug/Kg
95-57-8	2-Chlorophenol	26.6	U	26.6	190	ug/Kg
95-48-7	2-Methylphenol	32.6	U	32.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.9	U	40.9	190	ug/Kg
98-86-2	Acetophenone	32.2	U	32.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	44.8	U	44.8	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.7	U	51.7	87.3	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	35.8	U	35.8	190	ug/Kg
88-75-5	2-Nitrophenol	63.5	U	63.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	70.7	U	70.7	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.6	U	33.6	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	38.6	U	38.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.6	U	27.6	190	ug/Kg
105-60-2	Caprolactam	56.9	U	56.9	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.3	U	31.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	27.9	U	27.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.6	U	21.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.8	U	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	52.5	U	52.5	190	ug/Kg
131-11-3	Dimethylphthalate	29.6	U	29.6	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
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
BF142890.D	1	06/26/25 09:20	06/27/25 13:48	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.5	U	31.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.7	U	36.7	190	ug/Kg
99-09-2	3-Nitroaniline	50.2	U	50.2	190	ug/Kg
83-32-9	Acenaphthene	23.2	U	23.2	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	54.7	U	54.7	190	ug/Kg
84-66-2	Diethylphthalate	30.9	U	30.9	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.1	U	29.1	190	ug/Kg
86-73-7	Fluorene	27.6	U	27.6	190	ug/Kg
100-01-6	4-Nitroaniline	70.1	U	70.1	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.9	U	35.9	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.3	U	30.3	190	ug/Kg
118-74-1	Hexachlorobenzene	27.6	U	27.6	190	ug/Kg
1912-24-9	Atrazine	37.1	U	37.1	190	ug/Kg
87-86-5	Pentachlorophenol	56.0	U	56.0	360	ug/Kg
85-01-8	Phenanthrene	22.8	U	22.8	190	ug/Kg
120-12-7	Anthracene	36.3	U	36.3	190	ug/Kg
86-74-8	Carbazole	34.0	U	34.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.3	U	52.3	190	ug/Kg
206-44-0	Fluoranthene	75.7	J	32.7	190	ug/Kg
129-00-0	Pyrene	39.3	U	39.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	77.9	U	77.9	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.0	U	40.0	360	ug/Kg
56-55-3	Benzo(a)anthracene	25.1	U	25.1	190	ug/Kg
218-01-9	Chrysene	21.7	U	21.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.6	U	64.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	94.7	U	94.7	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.7	U	20.7	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
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
BF142890.D	1	06/26/25 09:20	06/27/25 13:48	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.4	U	24.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.2	U	32.2	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31.8	U	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	28.0	U	28.0	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.9	U	27.9	190	ug/Kg
123-91-1	1,4-Dioxane	49.3	U	49.3	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	83.0		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	82.9		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.6		18 - 107	53%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.1		20 - 109	55%	SPK: 100
118-79-6	2,4,6-Tribromophenol	73.8		10 - 116	49%	SPK: 150
1718-51-0	Terphenyl-d14	38.3		10 - 105	38%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	71700	6.875
1146-65-2	Naphthalene-d8	267000	8.157
15067-26-2	Acenaphthene-d10	131000	9.916
1517-22-2	Phenanthrene-d10	190000	11.404
1719-03-5	Chrysene-d12	154000	14.051
1520-96-3	Perylene-d12	153000	15.545

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	A	5.09	ug/Kg
000119-61-9	Benzophenone	280	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	150	J	11.9	ug/Kg
018835-33-1	1-Hexacosene	140	J	13.9	ug/Kg
000205-82-3	Benzo[j]fluoranthene	110	J	15.1	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BF142890.D	1	06/26/25 09:20	06/27/25 13:48	PB168625

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.5
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
BF142891.D	1	06/26/25 09:20	06/27/25 14:17	PB168625

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	24.7	U	24.7	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	33.4	U	33.4	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	52.9	U	52.9	89.2	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	36.6	U	36.6	190	ug/Kg
88-75-5	2-Nitrophenol	64.9	U	64.9	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.3	U	72.3	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.4	U	34.4	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.6	U	31.6	190	ug/Kg
91-20-3	Naphthalene	25.3	U	25.3	190	ug/Kg
106-47-8	4-Chloroaniline	39.5	U	39.5	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.2	U	28.2	190	ug/Kg
105-60-2	Caprolactam	58.1	U	58.1	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.0	U	32.0	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.6	U	28.6	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.1	U	22.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.5	U	32.5	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	53.7	U	53.7	190	ug/Kg
131-11-3	Dimethylphthalate	30.2	U	30.2	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.5
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
BF142891.D	1	06/26/25 09:20	06/27/25 14:17	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.2	U	32.2	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.5	U	37.5	190	ug/Kg
99-09-2	3-Nitroaniline	51.3	U	51.3	190	ug/Kg
83-32-9	Acenaphthene	23.8	U	23.8	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	55.9	U	55.9	190	ug/Kg
84-66-2	Diethylphthalate	31.6	U	31.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.8	U	29.8	190	ug/Kg
86-73-7	Fluorene	28.2	U	28.2	190	ug/Kg
100-01-6	4-Nitroaniline	71.6	U	71.6	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.7	U	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	U	28.2	190	ug/Kg
1912-24-9	Atrazine	37.9	U	37.9	190	ug/Kg
87-86-5	Pentachlorophenol	57.2	U	57.2	370	ug/Kg
85-01-8	Phenanthrene	23.3	U	23.3	190	ug/Kg
120-12-7	Anthracene	37.1	U	37.1	190	ug/Kg
86-74-8	Carbazole	34.8	U	34.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.4	U	53.4	190	ug/Kg
206-44-0	Fluoranthene	79.0	J	33.5	190	ug/Kg
129-00-0	Pyrene	40.2	U	40.2	190	ug/Kg
85-68-7	Butylbenzylphthalate	79.6	U	79.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.9	U	40.9	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.7	U	25.7	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	96.8	U	96.8	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	76.4	J	21.2	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.5
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
BF142891.D	1	06/26/25 09:20	06/27/25 14:17	PB168625

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	U	32.9	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.5	U	32.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.6	U	30.6	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.7	U	28.7	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.6	U	28.6	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	30.6	U	30.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	74.7		18 - 112	50%	SPK: 150
13127-88-3	Phenol-d6	74.3		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.7		18 - 107	49%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.2		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	67.0		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	32.5		10 - 105	32%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74000	6.875			
1146-65-2	Naphthalene-d8	273000	8.157			
15067-26-2	Acenaphthene-d10	136000	9.916			
1517-22-2	Phenanthrene-d10	197000	11.404			
1719-03-5	Chrysene-d12	162000	14.051			
1520-96-3	Perylene-d12	156000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	A		5.09	ug/Kg
000119-61-9	Benzophenone	250	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		11.9	ug/Kg
959010-23-2	Trifluoroacetic acid, pentadecyl e	90.7	J		13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.5
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BF142891.D	1	06/26/25 09:20	06/27/25 14:17	PB168625

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	77.1
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
BF142886.D	1	06/26/25 09:20	06/27/25 11:52	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	430	ug/Kg
108-95-2	Phenol	28.6	U	28.6	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.5	U	31.5	220	ug/Kg
95-57-8	2-Chlorophenol	31.6	U	31.6	220	ug/Kg
95-48-7	2-Methylphenol	38.7	U	38.7	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	48.6	U	48.6	220	ug/Kg
98-86-2	Acetophenone	38.2	U	38.2	220	ug/Kg
65794-96-9	3+4-Methylphenols	53.3	U	53.3	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	61.4	U	61.4	100	ug/Kg
67-72-1	Hexachloroethane	22.8	U	22.8	220	ug/Kg
98-95-3	Nitrobenzene	23.7	U	23.7	220	ug/Kg
78-59-1	Isophorone	42.5	U	42.5	220	ug/Kg
88-75-5	2-Nitrophenol	75.4	U	75.4	220	ug/Kg
105-67-9	2,4-Dimethylphenol	84.0	U	84.0	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	39.9	U	39.9	220	ug/Kg
120-83-2	2,4-Dichlorophenol	36.7	U	36.7	220	ug/Kg
91-20-3	Naphthalene	29.4	U	29.4	220	ug/Kg
106-47-8	4-Chloroaniline	45.9	U	45.9	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.8	U	32.8	220	ug/Kg
105-60-2	Caprolactam	67.5	U	67.5	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	37.2	U	37.2	220	ug/Kg
91-57-6	2-Methylnaphthalene	33.2	U	33.2	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.7	U	25.7	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	37.7	U	37.7	220	ug/Kg
92-52-4	1,1-Biphenyl	28.2	U	28.2	220	ug/Kg
91-58-7	2-Chloronaphthalene	29.2	U	29.2	220	ug/Kg
88-74-4	2-Nitroaniline	62.3	U	62.3	220	ug/Kg
131-11-3	Dimethylphthalate	35.1	U	35.1	220	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	77.1
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
BF142886.D	1	06/26/25 09:20	06/27/25 11:52	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	37.4	U	37.4	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.5	U	43.5	220	ug/Kg
99-09-2	3-Nitroaniline	59.6	U	59.6	220	ug/Kg
83-32-9	Acenaphthene	27.6	U	27.6	220	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	430	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	430	ug/Kg
132-64-9	Dibenzofuran	29.4	U	29.4	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	64.9	U	64.9	220	ug/Kg
84-66-2	Diethylphthalate	130	J	36.7	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.6	U	34.6	220	ug/Kg
86-73-7	Fluorene	32.8	U	32.8	220	ug/Kg
100-01-6	4-Nitroaniline	83.2	U	83.2	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	42.6	U	42.6	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	36.0	U	36.0	220	ug/Kg
118-74-1	Hexachlorobenzene	32.8	U	32.8	220	ug/Kg
1912-24-9	Atrazine	44.1	U	44.1	220	ug/Kg
87-86-5	Pentachlorophenol	66.5	U	66.5	430	ug/Kg
85-01-8	Phenanthrene	27.1	U	27.1	220	ug/Kg
120-12-7	Anthracene	43.1	U	43.1	220	ug/Kg
86-74-8	Carbazole	40.4	U	40.4	220	ug/Kg
84-74-2	Di-n-butylphthalate	62.1	U	62.1	220	ug/Kg
206-44-0	Fluoranthene	38.9	U	38.9	220	ug/Kg
129-00-0	Pyrene	46.6	U	46.6	220	ug/Kg
85-68-7	Butylbenzylphthalate	92.5	U	92.5	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	47.6	U	47.6	430	ug/Kg
56-55-3	Benzo(a)anthracene	29.8	U	29.8	220	ug/Kg
218-01-9	Chrysene	25.8	U	25.8	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	76.7	U	76.7	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.6	U	24.6	220	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	77.1
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
BF142886.D	1	06/26/25 09:20	06/27/25 11:52	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	29.0	U	29.0	220	ug/Kg
50-32-8	Benzo(a)pyrene	38.2	U	38.2	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	37.7	U	37.7	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.5	U	35.5	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.3	U	33.3	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	33.2	U	33.2	220	ug/Kg
123-91-1	1,4-Dioxane	58.6	U	58.6	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.5	U	35.5	220	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	79.3		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	81.1		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.3		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.8		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.8		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	34.5		10 - 105	34%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	71500	6.875
1146-65-2	Naphthalene-d8	270000	8.157
15067-26-2	Acenaphthene-d10	132000	9.916
1517-22-2	Phenanthrene-d10	195000	11.404
1719-03-5	Chrysene-d12	151000	14.051
1520-96-3	Perylene-d12	152000	15.545

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	A	5.09	ug/Kg
000119-61-9	Benzophenone	350	J	10.6	ug/Kg
082304-66-3	7,9-Di-tert-butyl-1-oxaspiro(4,5)d	90.7	J	11.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	480	J	11.9	ug/Kg
000057-11-4	Octadecanoic acid	120	J	12.7	ug/Kg
079392-43-1	Octadecyl trifluoroacetate	440	J	13.9	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	540	J	14.5	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	77.1
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		Final Vol:	1000
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142886.D	1	06/26/25 09:20	06/27/25 11:52	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000630-02-4	Octacosane	160	J		15.2	ug/Kg
000295-48-7	Cyclopentadecane	120	J		15.2	ug/Kg
000638-66-4	Octadecanal	98.5	J		15.8	ug/Kg
007098-22-8	Tetratetracontane	180	J		16.0	ug/Kg
000557-61-9	Octacosanol	170	J		16.1	ug/Kg
067860-04-2	Oxirane, heptadecyl-	91.6	J		16.8	ug/Kg
000489-39-4	Aromandendrene	220	J		17.2	ug/Kg
	unknown17.645	110	J		17.6	ug/Kg
	unknown17.727	170	J		17.7	ug/Kg
137235-51-9	1,2,4,8-Tetramethylbicyclo[6.3.0]u	260	J		18.0	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-72	SDG No.:	Q2413
Lab Sample ID:	Q2413-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		Final Vol:	1000
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142893.D	1	06/26/25 09:20	06/27/25 15:15	PB168625

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	27.9	U	27.9	200	ug/Kg
95-57-8	2-Chlorophenol	28.0	U	28.0	200	ug/Kg
95-48-7	2-Methylphenol	34.3	U	34.3	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	47.2	U	47.2	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.4	U	54.4	91.9	ug/Kg
67-72-1	Hexachloroethane	20.2	U	20.2	200	ug/Kg
98-95-3	Nitrobenzene	21.0	U	21.0	200	ug/Kg
78-59-1	Isophorone	37.7	U	37.7	200	ug/Kg
88-75-5	2-Nitrophenol	66.9	U	66.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	74.4	U	74.4	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.4	U	35.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.5	U	32.5	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	59.8	U	59.8	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	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.7	U	22.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.4	U	33.4	200	ug/Kg
92-52-4	1,1-Biphenyl	25.0	U	25.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	25.8	U	25.8	200	ug/Kg
88-74-4	2-Nitroaniline	55.3	U	55.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.1	U	31.1	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-72	SDG No.:	Q2413
Lab Sample ID:	Q2413-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142893.D	1	06/26/25 09:20	06/27/25 15:15	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.2	U	33.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.6	U	38.6	200	ug/Kg
99-09-2	3-Nitroaniline	52.8	U	52.8	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	57.5	U	57.5	200	ug/Kg
84-66-2	Diethylphthalate	32.5	U	32.5	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	73.7	U	73.7	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.8	U	37.8	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.9	U	31.9	200	ug/Kg
118-74-1	Hexachlorobenzene	29.1	U	29.1	200	ug/Kg
1912-24-9	Atrazine	39.1	U	39.1	200	ug/Kg
87-86-5	Pentachlorophenol	58.9	U	58.9	380	ug/Kg
85-01-8	Phenanthrene	24.0	U	24.0	200	ug/Kg
120-12-7	Anthracene	38.3	U	38.3	200	ug/Kg
86-74-8	Carbazole	35.8	U	35.8	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.0	U	55.0	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	82.0	U	82.0	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.2	U	42.2	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.4	U	26.4	200	ug/Kg
218-01-9	Chrysene	22.9	U	22.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.0	U	68.0	200	ug/Kg
117-84-0	Di-n-octyl phthalate	99.7	U	99.7	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.8	U	21.8	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
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Lab Sample ID:	Q2413-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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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 :
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File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142893.D	1	06/26/25 09:20	06/27/25 15:15	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.7	U	25.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	33.9	U	33.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.4	U	33.4	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	29.5	U	29.5	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	51.9	U	51.9	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	82.7		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	81.6		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.7		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.7		20 - 109	57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.3		10 - 116	54%	SPK: 150
1718-51-0	Terphenyl-d14	39.0		10 - 105	39%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	68400	6.875			
1146-65-2	Naphthalene-d8	241000	8.163			
15067-26-2	Acenaphthene-d10	110000	9.916			
1517-22-2	Phenanthrene-d10	175000	11.41			
1719-03-5	Chrysene-d12	164000	14.057			
1520-96-3	Perylene-d12	111000	15.551			

TENTATIVE IDENTIFIED COMPOUNDS

006876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	78.1	J		4.53	ug/Kg
001795-27-3	Cyclohexane, 1,3,5-trimethyl-, (1.	150	J		5.01	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	330	A		5.09	ug/Kg
007667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.	130	J		5.29	ug/Kg
002234-75-5	Cyclohexane, 1,2,4-trimethyl-	87.3	J		5.57	ug/Kg
020237-46-1	cis-3-Nonene	90.4	J		5.65	ug/Kg
003728-56-1	1-Ethyl-4-methylcyclohexane	100	J		5.69	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
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File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142893.D	1	06/26/25 09:20	06/27/25 15:15	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000111-84-2	Nonane	160	J		5.78	ug/Kg
003728-54-9	Cyclohexane, 1-ethyl-2-methyl-	120	J		5.90	ug/Kg
000119-61-9	Benzophenone	320	J		10.6	ug/Kg
000629-50-5	Tridecane	92.7	J		10.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	170	J		11.9	ug/Kg
000629-78-7	Heptadecane	93.8	J		12.9	ug/Kg
000593-45-3	Octadecane	83.1	J		13.2	ug/Kg
000629-92-5	Nonadecane	120	J		13.6	ug/Kg
074685-30-6	5-Eicosene, (E)-	290	J		13.9	ug/Kg
000629-97-0	Docosane	200	J		14.2	ug/Kg
000638-67-5	Tricosane	230	J		14.5	ug/Kg
000630-01-3	Hexacosane	150	J		14.8	ug/Kg
027538-41-6	11-Methyltricosane	250	J		15.2	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

LAB CHRONICLE

OrderID: Q2413	OrderDate: 6/24/2025 3:05:00 PM
Client: CDM Smith	Project: South River WM Replacement
Contact: Marcie Ann Encinas	Location: D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2413-01	TP-35	SOIL	SVOC-TCL BNA -20	8270E	06/23/25	06/26/25	06/27/25	06/24/25
Q2413-02	TP-34	SOIL	SVOC-TCL BNA -20	8270E	06/23/25	06/26/25	06/27/25	06/24/25
Q2413-03	TP-77	SOIL	SVOC-TCL BNA -20	8270E	06/23/25	06/26/25	06/27/25	06/24/25
Q2413-04	TP-74	SOIL	SVOC-TCL BNA -20	8270E	06/23/25	06/26/25	06/27/25	06/24/25
Q2413-05	TP-73	SOIL	SVOC-TCL BNA -20	8270E	06/23/25	06/26/25	06/27/25	06/24/25
Q2413-06	TP-72	SOIL	SVOC-TCL BNA -20	8270E	06/24/25	06/26/25	06/27/25	06/24/25