

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81
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
BF142569.D	1	05/30/25 09:50	05/30/25 14:52	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	410	U	190	410	ug/Kg
108-95-2	Phenol	210	U	27.2	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	30.0	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	30.1	210	ug/Kg
95-48-7	2-Methylphenol	210	U	36.9	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	46.2	210	ug/Kg
98-86-2	Acetophenone	210	U	36.4	210	ug/Kg
65794-96-9	3+4-Methylphenols	410	U	50.7	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	98.6	U	58.4	98.6	ug/Kg
67-72-1	Hexachloroethane	210	U	21.7	210	ug/Kg
98-95-3	Nitrobenzene	210	U	22.6	210	ug/Kg
78-59-1	Isophorone	210	U	40.4	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	71.8	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	79.9	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	38.0	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	34.9	210	ug/Kg
91-20-3	Naphthalene	210	U	28.0	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	43.6	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	31.2	210	ug/Kg
105-60-2	Caprolactam	410	U	64.2	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	35.4	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	31.6	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	410	U	140	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	24.4	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	35.9	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	26.9	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	27.7	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	59.3	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	33.4	210	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81
Sample Wt/Vol:	30.04	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
BF142569.D	1	05/30/25 09:50	05/30/25 14:52	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	210	U	35.6	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	41.4	210	ug/Kg
99-09-2	3-Nitroaniline	210	U	56.7	210	ug/Kg
83-32-9	Acenaphthene	210	U	26.3	210	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	280	410	ug/Kg
100-02-7	4-Nitrophenol	410	U	130	410	ug/Kg
132-64-9	Dibenzofuran	210	U	28.0	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	61.8	210	ug/Kg
84-66-2	Diethylphthalate	210	U	34.9	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	32.9	210	ug/Kg
86-73-7	Fluorene	210	U	31.2	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	79.2	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	410	U	130	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	40.6	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	34.3	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	31.2	210	ug/Kg
1912-24-9	Atrazine	210	U	41.9	210	ug/Kg
87-86-5	Pentachlorophenol	410	U	63.2	410	ug/Kg
85-01-8	Phenanthrene	210	U	25.8	210	ug/Kg
120-12-7	Anthracene	210	U	41.1	210	ug/Kg
86-74-8	Carbazole	210	U	38.5	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	59.1	210	ug/Kg
206-44-0	Fluoranthene	210	U	37.0	210	ug/Kg
129-00-0	Pyrene	210	U	44.4	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	88.0	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	410	U	45.2	410	ug/Kg
56-55-3	Benzo(a)anthracene	210	U	28.4	210	ug/Kg
218-01-9	Chrysene	210	U	24.5	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	210	U	73.0	210	ug/Kg
117-84-0	Di-n-octyl phthalate	410	U	110	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	U	23.4	210	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81
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
BF142569.D	1	05/30/25 09:50	05/30/25 14:52	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	210	U	27.6	210	ug/Kg
50-32-8	Benzo(a)pyrene	210	U	36.4	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	210	U	35.9	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	33.8	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	210	U	31.7	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	31.6	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	55.7	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	33.8	210	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	81.7		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	83.6		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.5		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.7		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	80.9		10 - 116	54%	SPK: 150
1718-51-0	Terphenyl-d14	45.5		10 - 105	45%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	120000	6.898
1146-65-2	Naphthalene-d8	453000	8.181
15067-26-2	Acenaphthene-d10	238000	9.939
1517-22-2	Phenanthrene-d10	379000	11.422
1719-03-5	Chrysene-d12	214000	14.068
1520-96-3	Perylene-d12	234000	15.563

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	290	AB	5.12	ug/Kg
000119-61-9	Benzophenone	180	J	10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	410	J	11.9	ug/Kg
000057-11-4	Octadecanoic acid	150	J	12.7	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	200	J	13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81
Sample Wt/Vol:	30.04	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
BF142569.D	1	05/30/25 09:50	05/30/25 14:52	PB168211

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