

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07	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
BF142537.D	1	05/22/25 09:00	05/23/25 16:05	PB168126

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	24.9	U	24.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.4	U	27.4	190	ug/Kg
95-57-8	2-Chlorophenol	27.5	U	27.5	190	ug/Kg
95-48-7	2-Methylphenol	33.7	U	33.7	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.3	U	42.3	190	ug/Kg
98-86-2	Acetophenone	33.3	U	33.3	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.4	U	46.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.5	U	53.5	90.3	ug/Kg
67-72-1	Hexachloroethane	19.9	U	19.9	190	ug/Kg
98-95-3	Nitrobenzene	20.7	U	20.7	190	ug/Kg
78-59-1	Isophorone	37.0	U	37.0	190	ug/Kg
88-75-5	2-Nitrophenol	65.7	U	65.7	190	ug/Kg
105-67-9	2,4-Dimethylphenol	73.1	U	73.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.8	U	34.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.9	U	31.9	190	ug/Kg
91-20-3	Naphthalene	25.6	U	25.6	190	ug/Kg
106-47-8	4-Chloroaniline	40.0	U	40.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.6	U	28.6	190	ug/Kg
105-60-2	Caprolactam	58.8	U	58.8	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.4	U	32.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.9	U	28.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.3	U	22.3	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.8	U	32.8	190	ug/Kg
92-52-4	1,1-Biphenyl	24.6	U	24.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.4	U	25.4	190	ug/Kg
88-74-4	2-Nitroaniline	54.3	U	54.3	190	ug/Kg
131-11-3	Dimethylphthalate	30.6	U	30.6	190	ug/Kg

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208-96-8	Acenaphthylene	32.6	U	32.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.9	U	37.9	190	ug/Kg
99-09-2	3-Nitroaniline	51.9	U	51.9	190	ug/Kg
83-32-9	Acenaphthene	24.0	U	24.0	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	25.6	U	25.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.5	U	56.5	190	ug/Kg
84-66-2	Diethylphthalate	31.9	U	31.9	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.1	U	30.1	190	ug/Kg
86-73-7	Fluorene	28.6	U	28.6	190	ug/Kg
100-01-6	4-Nitroaniline	72.5	U	72.5	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.1	U	37.1	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.4	U	31.4	190	ug/Kg
118-74-1	Hexachlorobenzene	28.6	U	28.6	190	ug/Kg
1912-24-9	Atrazine	38.4	U	38.4	190	ug/Kg
87-86-5	Pentachlorophenol	57.9	U	57.9	370	ug/Kg
85-01-8	Phenanthrene	23.6	U	23.6	190	ug/Kg
120-12-7	Anthracene	37.6	U	37.6	190	ug/Kg
86-74-8	Carbazole	35.2	U	35.2	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.1	U	54.1	190	ug/Kg
206-44-0	Fluoranthene	33.9	U	33.9	190	ug/Kg
129-00-0	Pyrene	40.6	U	40.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.6	U	80.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.4	UQ	41.4	370	ug/Kg
56-55-3	Benzo(a)anthracene	26.0	U	26.0	190	ug/Kg
218-01-9	Chrysene	22.5	U	22.5	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.8	U	66.8	190	ug/Kg
117-84-0	Di-n-octyl phthalate	98.0	U	98.0	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.4	U	21.4	190	ug/Kg

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207-08-9	Benzo(k)fluoranthene	25.3	U	25.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.3	U	33.3	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.8	U	32.8	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.9	U	30.9	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.0	U	29.0	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.9	U	28.9	190	ug/Kg
123-91-1	1,4-Dioxane	51.0	U	51.0	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.9	U	30.9	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	82.1		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	84.1		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.7		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.1		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.5		10 - 116	54%	SPK: 150
1718-51-0	Terphenyl-d14	47.5		10 - 105	48%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	114000	6.898
1146-65-2	Naphthalene-d8	436000	8.181
15067-26-2	Acenaphthene-d10	234000	9.933
1517-22-2	Phenanthrene-d10	387000	11.422
1719-03-5	Chrysene-d12	212000	14.063
1520-96-3	Perylene-d12	223000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB	5.12	ug/Kg
000119-61-9	Benzophenone	340	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	430	J	11.9	ug/Kg
018835-32-0	1-Tricosene	150	J	13.9	ug/Kg
000111-02-4	Squalene	230	J	14.9	ug/Kg

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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