

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-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Final Vol:	1000 uL
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142536.D	1	05/22/25 09:00	05/23/25 15:37	PB168126

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	26.2	U	26.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.8	U	28.8	200	ug/Kg
95-57-8	2-Chlorophenol	29.0	U	29.0	200	ug/Kg
95-48-7	2-Methylphenol	35.5	U	35.5	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.5	U	44.5	200	ug/Kg
98-86-2	Acetophenone	35.0	U	35.0	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.8	U	48.8	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.3	U	56.3	95.0	ug/Kg
67-72-1	Hexachloroethane	20.9	U	20.9	200	ug/Kg
98-95-3	Nitrobenzene	21.7	U	21.7	200	ug/Kg
78-59-1	Isophorone	38.9	U	38.9	200	ug/Kg
88-75-5	2-Nitrophenol	69.1	U	69.1	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.9	U	76.9	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.6	U	36.6	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.6	U	33.6	200	ug/Kg
91-20-3	Naphthalene	26.9	U	26.9	200	ug/Kg
106-47-8	4-Chloroaniline	42.0	U	42.0	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.0	U	30.0	200	ug/Kg
105-60-2	Caprolactam	61.8	U	61.8	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.1	U	34.1	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.4	U	30.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.5	U	23.5	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.5	U	34.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.9	U	25.9	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.7	U	26.7	200	ug/Kg
88-74-4	2-Nitroaniline	57.1	U	57.1	200	ug/Kg
131-11-3	Dimethylphthalate	32.2	U	32.2	200	ug/Kg

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208-96-8	Acenaphthylene	34.3	U	34.3	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.9	U	39.9	200	ug/Kg
99-09-2	3-Nitroaniline	54.6	U	54.6	200	ug/Kg
83-32-9	Acenaphthene	25.3	U	25.3	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	26.9	U	26.9	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.5	U	59.5	200	ug/Kg
84-66-2	Diethylphthalate	33.6	U	33.6	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.7	U	31.7	200	ug/Kg
86-73-7	Fluorene	30.0	U	30.0	200	ug/Kg
100-01-6	4-Nitroaniline	76.2	U	76.2	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.0	U	39.0	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.0	U	33.0	200	ug/Kg
118-74-1	Hexachlorobenzene	30.0	U	30.0	200	ug/Kg
1912-24-9	Atrazine	40.4	U	40.4	200	ug/Kg
87-86-5	Pentachlorophenol	60.9	U	60.9	390	ug/Kg
85-01-8	Phenanthrene	24.8	U	24.8	200	ug/Kg
120-12-7	Anthracene	39.5	U	39.5	200	ug/Kg
86-74-8	Carbazole	37.0	U	37.0	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.9	U	56.9	200	ug/Kg
206-44-0	Fluoranthene	35.6	U	35.6	200	ug/Kg
129-00-0	Pyrene	42.7	U	42.7	200	ug/Kg
85-68-7	Butylbenzylphthalate	84.7	U	84.7	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.6	UQ	43.6	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.3	U	27.3	200	ug/Kg
218-01-9	Chrysene	23.6	U	23.6	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.3	U	70.3	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.6	U	22.6	200	ug/Kg

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207-08-9	Benzo(k)fluoranthene	26.6	U	26.6	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.0	U	35.0	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.5	U	34.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.5	U	32.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.5	U	30.5	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.4	U	30.4	200	ug/Kg
123-91-1	1,4-Dioxane	53.6	U	53.6	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.5	U	32.5	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	72.1		18 - 112	48%	SPK: 150
13127-88-3	Phenol-d6	73.6		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.7		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	43.1		20 - 109	43%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.5		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	42.8		10 - 105	43%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	111000	6.898
1146-65-2	Naphthalene-d8	430000	8.181
15067-26-2	Acenaphthene-d10	234000	9.933
1517-22-2	Phenanthrene-d10	390000	11.422
1719-03-5	Chrysene-d12	216000	14.063
1520-96-3	Perylene-d12	220000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB	5.11	ug/Kg
013798-23-7	Hexathiane	140	J	10.3	ug/Kg
000119-61-9	Benzophenone	200	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J	11.9	ug/Kg
1000351-81-6	Heptacosyl pentafluoropropionate	150	J	13.9	ug/Kg
006831-17-0	2H-Cyclopropa[a]naphthalen-2-one,	170	J	17.9	ug/Kg
023707-65-5	Anthracene, 9-(2-propenyl)-	130	J	18.2	ug/Kg

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000638-96-0	.alpha.-Amyrone	460	J		18.3	ug/Kg
201358-25-0	24-Norursa-3,12-diene	430	J		18.6	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