

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-25	SDG No.:	Q2176
Lab Sample ID:	Q2176-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.7
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
BP024908.D	1	06/04/25 09:10	06/11/25 12:18	PB168234

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	25.7	U	25.7	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.3	U	28.3	200	ug/Kg
95-57-8	2-Chlorophenol	28.4	U	28.4	200	ug/Kg
95-48-7	2-Methylphenol	34.8	U	34.8	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.7	U	43.7	200	ug/Kg
98-86-2	Acetophenone	34.4	U	34.4	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.9	U	47.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.2	U	55.2	93.2	ug/Kg
67-72-1	Hexachloroethane	20.5	U	20.5	200	ug/Kg
98-95-3	Nitrobenzene	21.3	U	21.3	200	ug/Kg
78-59-1	Isophorone	38.2	U	38.2	200	ug/Kg
88-75-5	2-Nitrophenol	67.8	U	67.8	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.5	U	75.5	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.9	U	35.9	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.0	U	33.0	200	ug/Kg
91-20-3	Naphthalene	26.4	U	26.4	200	ug/Kg
106-47-8	4-Chloroaniline	41.2	U	41.2	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.5	U	29.5	200	ug/Kg
105-60-2	Caprolactam	60.7	U	60.7	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.4	U	33.4	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.8	U	29.8	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.1	U	23.1	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.9	U	33.9	200	ug/Kg
92-52-4	1,1-Biphenyl	25.4	U	25.4	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.2	U	26.2	200	ug/Kg
88-74-4	2-Nitroaniline	56.0	U	56.0	200	ug/Kg
131-11-3	Dimethylphthalate	31.6	U	31.6	200	ug/Kg

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208-96-8	Acenaphthylene	33.7	U	33.7	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.1	U	39.1	200	ug/Kg
99-09-2	3-Nitroaniline	53.6	U	53.6	200	ug/Kg
83-32-9	Acenaphthene	24.8	U	24.8	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.4	U	26.4	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.4	U	58.4	200	ug/Kg
84-66-2	Diethylphthalate	33.0	U	33.0	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.1	U	31.1	200	ug/Kg
86-73-7	Fluorene	29.5	U	29.5	200	ug/Kg
100-01-6	4-Nitroaniline	74.8	U	74.8	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.3	U	38.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.4	U	32.4	200	ug/Kg
118-74-1	Hexachlorobenzene	29.5	U	29.5	200	ug/Kg
1912-24-9	Atrazine	39.6	U	39.6	200	ug/Kg
87-86-5	Pentachlorophenol	59.8	U	59.8	380	ug/Kg
85-01-8	Phenanthrene	24.3	U	24.3	200	ug/Kg
120-12-7	Anthracene	38.8	U	38.8	200	ug/Kg
86-74-8	Carbazole	36.3	U	36.3	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.8	U	55.8	200	ug/Kg
206-44-0	Fluoranthene	34.9	U	34.9	200	ug/Kg
129-00-0	Pyrene	41.9	U	41.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.2	U	83.2	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.8	UQ	42.8	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.8	U	26.8	200	ug/Kg
218-01-9	Chrysene	23.2	U	23.2	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	69.0	U	69.0	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.1	U	22.1	200	ug/Kg

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207-08-9	Benzo(k)fluoranthene	26.1	U	26.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.4	U	34.4	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.9	U	33.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.9	U	31.9	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.9	U	29.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.8	U	29.8	200	ug/Kg
123-91-1	1,4-Dioxane	52.7	U	52.7	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.9	U	31.9	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	93.4		18 - 112	62%	SPK: 150
13127-88-3	Phenol-d6	90.1		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.7		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.0		20 - 109	54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	97.0		10 - 116	65%	SPK: 150
1718-51-0	Terphenyl-d14	48.5		10 - 105	49%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	206000	7.613
1146-65-2	Naphthalene-d8	781000	10.384
15067-26-2	Acenaphthene-d10	477000	14.254
1517-22-2	Phenanthrene-d10	972000	17.066
1719-03-5	Chrysene-d12	1290000	21.501
1520-96-3	Perylene-d12	1720000	24.771

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB	4.77	ug/Kg
000119-61-9	Benzophenone	380	J	15.6	ug/Kg
000295-17-0	Cyclotetradecane	190	J	17.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	570	J	18.0	ug/Kg
000629-94-7	Heneicosane	92.8	J	18.5	ug/Kg
000112-88-9	1-Octadecene	150	J	18.9	ug/Kg
000057-11-4	Octadecanoic acid	170	J	19.3	ug/Kg

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018435-45-5	1-Nonadecene	170	J		21.2	ug/Kg
000111-02-4	Squalene	170	J		23.2	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