

Report of Analysis

Client:	CDM Smith			Date Collected:	07/02/25		
Project:	South River WM Replacement			Date Received:	07/03/25		
Client Sample ID:	TP-93			SDG No.:	Q2514		
Lab Sample ID:	Q2514-02			Matrix:	SOIL		
Analytical Method:	8270E			% Solid:	87.7		
Sample Wt/Vol:	30.01	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
BF143015.D	1	07/07/25 09:00	07/07/25 18:21	PB168737

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	25.2	U	25.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.7	U	27.7	190	ug/Kg
95-57-8	2-Chlorophenol	27.8	U	27.8	190	ug/Kg
95-48-7	2-Methylphenol	34.1	U	34.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.7	U	42.7	190	ug/Kg
98-86-2	Acetophenone	33.6	U	33.6	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.8	U	46.8	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.0	U	54.0	91.2	ug/Kg
67-72-1	Hexachloroethane	20.1	U	20.1	190	ug/Kg
98-95-3	Nitrobenzene	20.9	U	20.9	190	ug/Kg
78-59-1	Isophorone	37.4	U	37.4	190	ug/Kg
88-75-5	2-Nitrophenol	66.3	U	66.3	190	ug/Kg
105-67-9	2,4-Dimethylphenol	73.9	U	73.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.1	U	35.1	190	ug/Kg
120-83-2	2,4-Dichlorophenol	32.3	U	32.3	190	ug/Kg
91-20-3	Naphthalene	25.9	U	25.9	190	ug/Kg
106-47-8	4-Chloroaniline	40.4	U	40.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.8	U	28.8	190	ug/Kg
105-60-2	Caprolactam	59.4	U	59.4	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.7	U	32.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	29.2	U	29.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.6	U	22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.2	U	33.2	190	ug/Kg
92-52-4	1,1-Biphenyl	24.8	U	24.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.6	U	25.6	190	ug/Kg
88-74-4	2-Nitroaniline	54.8	U	54.8	190	ug/Kg
131-11-3	Dimethylphthalate	30.9	U	30.9	190	ug/Kg

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208-96-8	Acenaphthylene	32.9	U	32.9	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.3	U	38.3	190	ug/Kg
99-09-2	3-Nitroaniline	52.4	U	52.4	190	ug/Kg
83-32-9	Acenaphthene	24.3	U	24.3	190	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	25.9	U	25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.1	U	57.1	190	ug/Kg
84-66-2	Diethylphthalate	32.3	U	32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.4	U	30.4	190	ug/Kg
86-73-7	Fluorene	28.8	U	28.8	190	ug/Kg
100-01-6	4-Nitroaniline	73.2	U	73.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.5	U	37.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.7	U	31.7	190	ug/Kg
118-74-1	Hexachlorobenzene	28.8	U	28.8	190	ug/Kg
1912-24-9	Atrazine	38.8	U	38.8	190	ug/Kg
87-86-5	Pentachlorophenol	58.5	U	58.5	380	ug/Kg
85-01-8	Phenanthrene	23.8	U	23.8	190	ug/Kg
120-12-7	Anthracene	38.0	U	38.0	190	ug/Kg
86-74-8	Carbazole	35.6	U	35.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.6	U	54.6	190	ug/Kg
206-44-0	Fluoranthene	34.2	U	34.2	190	ug/Kg
129-00-0	Pyrene	41.0	U	41.0	190	ug/Kg
85-68-7	Butylbenzylphthalate	81.4	U	81.4	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.8	U	41.8	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.2	U	26.2	190	ug/Kg
218-01-9	Chrysene	22.7	U	22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	67.5	U	67.5	190	ug/Kg
117-84-0	Di-n-octyl phthalate	98.9	U	98.9	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.7	U	21.7	190	ug/Kg

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207-08-9	Benzo(k)fluoranthene	25.5	U	25.5	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.6	U	33.6	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.2	U	33.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.2	U	31.2	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.3	U	29.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.2	U	29.2	190	ug/Kg
123-91-1	1,4-Dioxane	51.5	U	51.5	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.2	U	31.2	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	62.0		18 - 112	41%	SPK: 150
13127-88-3	Phenol-d6	57.7		15 - 107	38%	SPK: 150
4165-60-0	Nitrobenzene-d5	41.0		18 - 107	41%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.4		20 - 109	41%	SPK: 100
118-79-6	2,4,6-Tribromophenol	60.4		10 - 116	40%	SPK: 150
1718-51-0	Terphenyl-d14	28.0		10 - 105	28%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	51000	6.875
1146-65-2	Naphthalene-d8	169000	8.157
15067-26-2	Acenaphthene-d10	78800	9.916
1517-22-2	Phenanthrene-d10	138000	11.404
1719-03-5	Chrysene-d12	140000	14.051
1520-96-3	Perylene-d12	107000	15.545

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	170	AB	5.08	ug/Kg
000629-59-4	Tetradecane	80.9	J	9.31	ug/Kg
1000342-70-4	1-Octadecanesulphonyl chloride	100	J	9.63	ug/Kg
000629-50-5	Tridecane	130	J	9.84	ug/Kg
000629-92-5	Nonadecane	160	J	10.3	ug/Kg
000630-01-3	Hexacosane	87.4	J	10.6	ug/Kg
000119-61-9	Benzophenone	180	J	10.6	ug/Kg

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000112-95-8	Eicosane	300	J		10.8	ug/Kg
000593-49-7	Heptacosane	140	J		11.3	ug/Kg
001921-70-6	Pentadecane, 2,6,10,14-tetramethyl	79.0	J		11.3	ug/Kg
000629-78-7	Heptadecane	130	J		11.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	150	J		11.9	ug/Kg
000646-31-1	Tetracosane	100	J		12.1	ug/Kg
000630-02-4	Octacosane	81.3	J		12.5	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	160	J		13.9	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