

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	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
BF142585.D	1	05/30/25 09:50	05/30/25 22:41	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	380	U	180	380	ug/Kg
108-95-2	Phenol	200	U	25.7	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	200	U	28.3	200	ug/Kg
95-57-8	2-Chlorophenol	200	U	28.4	200	ug/Kg
95-48-7	2-Methylphenol	200	U	34.8	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	U	43.7	200	ug/Kg
98-86-2	Acetophenone	200	U	34.4	200	ug/Kg
65794-96-9	3+4-Methylphenols	380	U	47.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	93.2	U	55.2	93.2	ug/Kg
67-72-1	Hexachloroethane	200	U	20.5	200	ug/Kg
98-95-3	Nitrobenzene	200	U	21.3	200	ug/Kg
78-59-1	Isophorone	200	U	38.2	200	ug/Kg
88-75-5	2-Nitrophenol	200	U	67.8	200	ug/Kg
105-67-9	2,4-Dimethylphenol	200	U	75.5	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	200	U	35.9	200	ug/Kg
120-83-2	2,4-Dichlorophenol	200	U	33.0	200	ug/Kg
91-20-3	Naphthalene	200	U	26.4	200	ug/Kg
106-47-8	4-Chloroaniline	200	U	41.2	200	ug/Kg
87-68-3	Hexachlorobutadiene	200	U	29.5	200	ug/Kg
105-60-2	Caprolactam	380	U	60.7	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	200	U	33.4	200	ug/Kg
91-57-6	2-Methylnaphthalene	200	U	29.8	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	380	U	140	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	200	U	23.1	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	200	U	33.9	200	ug/Kg
92-52-4	1,1-Biphenyl	200	U	25.4	200	ug/Kg
91-58-7	2-Chloronaphthalene	200	U	26.2	200	ug/Kg
88-74-4	2-Nitroaniline	200	U	56.0	200	ug/Kg
131-11-3	Dimethylphthalate	200	U	31.6	200	ug/Kg

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208-96-8	Acenaphthylene	92.6	J	33.7	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	39.1	200	ug/Kg
99-09-2	3-Nitroaniline	200	U	53.6	200	ug/Kg
83-32-9	Acenaphthene	200	U	24.8	200	ug/Kg
51-28-5	2,4-Dinitrophenol	380	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	380	U	120	380	ug/Kg
132-64-9	Dibenzofuran	200	U	26.4	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	200	U	58.4	200	ug/Kg
84-66-2	Diethylphthalate	200	U	33.0	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	200	U	31.1	200	ug/Kg
86-73-7	Fluorene	200	U	29.5	200	ug/Kg
100-01-6	4-Nitroaniline	200	U	74.8	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	380	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	38.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	200	U	32.4	200	ug/Kg
118-74-1	Hexachlorobenzene	200	U	29.5	200	ug/Kg
1912-24-9	Atrazine	200	U	39.6	200	ug/Kg
87-86-5	Pentachlorophenol	380	U	59.8	380	ug/Kg
85-01-8	Phenanthrene	270		24.3	200	ug/Kg
120-12-7	Anthracene	140	J	38.8	200	ug/Kg
86-74-8	Carbazole	200	U	36.3	200	ug/Kg
84-74-2	Di-n-butylphthalate	200	U	55.8	200	ug/Kg
206-44-0	Fluoranthene	1300		34.9	200	ug/Kg
129-00-0	Pyrene	770		41.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	200	U	83.2	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	380	U	42.8	380	ug/Kg
56-55-3	Benzo(a)anthracene	750		26.8	200	ug/Kg
218-01-9	Chrysene	780		23.2	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	200	U	69.0	200	ug/Kg
117-84-0	Di-n-octyl phthalate	380	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1100		22.1	200	ug/Kg

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207-08-9	Benzo(k)fluoranthene	360		26.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	830		34.4	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	300		33.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	93.9	J	31.9	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	350		29.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	29.8	200	ug/Kg
123-91-1	1,4-Dioxane	200	U	52.7	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	31.9	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	89.7		18 - 112	60%	SPK: 150
13127-88-3	Phenol-d6	89.5		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.0		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.0		20 - 109	55%	SPK: 100
118-79-6	2,4,6-Tribromophenol	75.4		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	36.4		10 - 105	36%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	134000	6.898
1146-65-2	Naphthalene-d8	477000	8.181
15067-26-2	Acenaphthene-d10	214000	9.939
1517-22-2	Phenanthrene-d10	298000	11.427
1719-03-5	Chrysene-d12	272000	14.068
1520-96-3	Perylene-d12	265000	15.568

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	290	AB	5.12	ug/Kg
000111-76-2	Ethanol, 2-butoxy-	79.6	J	5.84	ug/Kg
000119-61-9	Benzophenone	170	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	460	J	12.0	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	220	J	12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	100	J	12.5	ug/Kg
000781-17-9	Pyrene, 4,5,9,10-tetrahydro-	83.1	J	12.5	ug/Kg

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000238-84-6	11H-Benzo[a]fluorene	130	J		13.2	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	94.4	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	190	J		15.2	ug/Kg
000198-55-0	Perylene	630	J		15.4	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