

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.02	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
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050394.D	1	07/10/25 09:55	07/10/25 17:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	450	ug/Kg
108-95-2	Phenol	29.9	U	29.9	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	32.9	U	32.9	230	ug/Kg
95-57-8	2-Chlorophenol	33.0	U	33.0	230	ug/Kg
95-48-7	2-Methylphenol	40.4	U	40.4	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	50.7	U	50.7	230	ug/Kg
98-86-2	Acetophenone	39.9	U	39.9	230	ug/Kg
65794-96-9	3+4-Methylphenols	55.6	U	55.6	450	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	64.1	U	64.1	110	ug/Kg
67-72-1	Hexachloroethane	23.8	U	23.8	230	ug/Kg
98-95-3	Nitrobenzene	24.7	U	24.7	230	ug/Kg
78-59-1	Isophorone	44.4	U	44.4	230	ug/Kg
88-75-5	2-Nitrophenol	78.7	U	78.7	230	ug/Kg
105-67-9	2,4-Dimethylphenol	87.6	U	87.6	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	41.7	U	41.7	230	ug/Kg
120-83-2	2,4-Dichlorophenol	38.3	U	38.3	230	ug/Kg
91-20-3	Naphthalene	30.7	U	30.7	230	ug/Kg
106-47-8	4-Chloroaniline	47.9	U	47.9	230	ug/Kg
87-68-3	Hexachlorobutadiene	34.2	UQ	34.2	230	ug/Kg
105-60-2	Caprolactam	70.5	U	70.5	450	ug/Kg
59-50-7	4-Chloro-3-methylphenol	38.8	U	38.8	230	ug/Kg
91-57-6	2-Methylnaphthalene	34.6	U	34.6	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	450	ug/Kg
88-06-2	2,4,6-Trichlorophenol	26.8	UQ	26.8	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	39.4	UQ	39.4	230	ug/Kg
92-52-4	1,1-Biphenyl	29.5	U	29.5	230	ug/Kg
91-58-7	2-Chloronaphthalene	30.4	U	30.4	230	ug/Kg
88-74-4	2-Nitroaniline	65.0	U	65.0	230	ug/Kg
131-11-3	Dimethylphthalate	36.6	U	36.6	230	ug/Kg

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208-96-8	Acenaphthylene	39.1	U	39.1	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	45.4	U	45.4	230	ug/Kg
99-09-2	3-Nitroaniline	62.2	U	62.2	230	ug/Kg
83-32-9	Acenaphthene	28.8	U	28.8	230	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	450	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	450	ug/Kg
132-64-9	Dibenzofuran	30.7	U	30.7	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	67.7	U	67.7	230	ug/Kg
84-66-2	Diethylphthalate	38.3	U	38.3	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	36.1	U	36.1	230	ug/Kg
86-73-7	Fluorene	34.2	U	34.2	230	ug/Kg
100-01-6	4-Nitroaniline	86.8	U	86.8	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	UQ	140	450	ug/Kg
86-30-6	n-Nitrosodiphenylamine	44.5	U	44.5	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	37.6	U	37.6	230	ug/Kg
118-74-1	Hexachlorobenzene	34.2	UQ	34.2	230	ug/Kg
1912-24-9	Atrazine	46.0	U	46.0	230	ug/Kg
87-86-5	Pentachlorophenol	69.4	U	69.4	450	ug/Kg
85-01-8	Phenanthrene	28.3	U	28.3	230	ug/Kg
120-12-7	Anthracene	45.0	U	45.0	230	ug/Kg
86-74-8	Carbazole	42.2	U	42.2	230	ug/Kg
84-74-2	Di-n-butylphthalate	64.8	U	64.8	230	ug/Kg
206-44-0	Fluoranthene	310		40.6	230	ug/Kg
129-00-0	Pyrene	250		48.7	230	ug/Kg
85-68-7	Butylbenzylphthalate	96.6	UQ	96.6	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	49.6	U	49.6	450	ug/Kg
56-55-3	Benzo(a)anthracene	150	J	31.1	230	ug/Kg
218-01-9	Chrysene	170	J	26.9	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	80.1	U	80.1	230	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	450	ug/Kg
205-99-2	Benzo(b)fluoranthene	250		25.7	230	ug/Kg

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207-08-9	Benzo(k)fluoranthene	92.6	J	30.3	230	ug/Kg
50-32-8	Benzo(a)pyrene	170	JQ	39.9	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	39.4	UQ	39.4	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	37.1	U	37.1	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.1	J	34.8	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	34.6	U	34.6	230	ug/Kg
123-91-1	1,4-Dioxane	61.1	U	61.1	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	37.1	U	37.1	230	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	126		18 - 112	84%	SPK: 150
13127-88-3	Phenol-d6	128		15 - 107	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.8		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.3		20 - 109	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		10 - 116	97%	SPK: 150
1718-51-0	Terphenyl-d14	69.8		10 - 105	70%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	578000	7.863
1146-65-2	Naphthalene-d8	2140000	10.657
15067-26-2	Acenaphthene-d10	1400000	14.492
1517-22-2	Phenanthrene-d10	2860000	17.221
1719-03-5	Chrysene-d12	3180000	21.45
1520-96-3	Perylene-d12	2910000	24.491

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	610	J	3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	AB	4.97	ug/Kg
000119-61-9	Benzophenone	280	J	15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	270	J	18.1	ug/Kg
000295-65-8	Cyclohexadecane	160	J	21.1	ug/Kg
000192-97-2	Benzo[e]pyrene	150	J	24.2	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