

Report of Analysis

Client:	CDM Smith	Date Collected:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-17	SDG No.:	Q2010
Lab Sample ID:	Q2010-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	77.4
Sample Wt/Vol:	30.04 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
BF142398.D	1	05/13/25 09:05	05/15/25 18:11	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	430	ug/Kg
108-95-2	Phenol	28.5	U	28.5	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.4	U	31.4	220	ug/Kg
95-57-8	2-Chlorophenol	31.5	U	31.5	220	ug/Kg
95-48-7	2-Methylphenol	38.6	U	38.6	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	48.4	U	48.4	220	ug/Kg
98-86-2	Acetophenone	38.1	U	38.1	220	ug/Kg
65794-96-9	3+4-Methylphenols	53.0	U	53.0	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	61.2	U	61.2	100	ug/Kg
67-72-1	Hexachloroethane	22.7	U	22.7	220	ug/Kg
98-95-3	Nitrobenzene	23.6	U	23.6	220	ug/Kg
78-59-1	Isophorone	42.3	U	42.3	220	ug/Kg
88-75-5	2-Nitrophenol	75.1	U	75.1	220	ug/Kg
105-67-9	2,4-Dimethylphenol	83.6	U	83.6	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	39.7	U	39.7	220	ug/Kg
120-83-2	2,4-Dichlorophenol	36.5	U	36.5	220	ug/Kg
91-20-3	Naphthalene	29.3	U	29.3	220	ug/Kg
106-47-8	4-Chloroaniline	45.7	U	45.7	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.6	U	32.6	220	ug/Kg
105-60-2	Caprolactam	67.2	U	67.2	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	37.0	U	37.0	220	ug/Kg
91-57-6	2-Methylnaphthalene	33.0	U	33.0	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.5	U	25.5	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	37.5	U	37.5	220	ug/Kg
92-52-4	1,1-Biphenyl	28.1	U	28.1	220	ug/Kg
91-58-7	2-Chloronaphthalene	29.0	U	29.0	220	ug/Kg
88-74-4	2-Nitroaniline	62.1	U	62.1	220	ug/Kg
131-11-3	Dimethylphthalate	35.0	U	35.0	220	ug/Kg

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208-96-8	Acenaphthylene	37.3	U	37.3	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.4	U	43.4	220	ug/Kg
99-09-2	3-Nitroaniline	59.4	U	59.4	220	ug/Kg
83-32-9	Acenaphthene	27.5	U	27.5	220	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	430	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	430	ug/Kg
132-64-9	Dibenzofuran	29.3	U	29.3	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	64.6	U	64.6	220	ug/Kg
84-66-2	Diethylphthalate	36.5	U	36.5	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.5	U	34.5	220	ug/Kg
86-73-7	Fluorene	32.6	U	32.6	220	ug/Kg
100-01-6	4-Nitroaniline	82.8	U	82.8	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	42.4	U	42.4	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	35.9	U	35.9	220	ug/Kg
118-74-1	Hexachlorobenzene	32.6	U	32.6	220	ug/Kg
1912-24-9	Atrazine	43.9	U	43.9	220	ug/Kg
87-86-5	Pentachlorophenol	66.2	UQ	66.2	430	ug/Kg
85-01-8	Phenanthrene	27.0	U	27.0	220	ug/Kg
120-12-7	Anthracene	43.0	U	43.0	220	ug/Kg
86-74-8	Carbazole	40.3	U	40.3	220	ug/Kg
84-74-2	Di-n-butylphthalate	61.8	U	61.8	220	ug/Kg
206-44-0	Fluoranthene	38.7	U	38.7	220	ug/Kg
129-00-0	Pyrene	46.4	U	46.4	220	ug/Kg
85-68-7	Butylbenzylphthalate	92.1	U	92.1	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	47.4	U	47.4	430	ug/Kg
56-55-3	Benzo(a)anthracene	29.7	U	29.7	220	ug/Kg
218-01-9	Chrysene	25.7	U	25.7	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	76.4	U	76.4	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.5	U	24.5	220	ug/Kg

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207-08-9	Benzo(k)fluoranthene	28.9	U	28.9	220	ug/Kg
50-32-8	Benzo(a)pyrene	38.1	U	38.1	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	37.5	U	37.5	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.4	U	35.4	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.2	U	33.2	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	33.0	U	33.0	220	ug/Kg
123-91-1	1,4-Dioxane	58.3	U	58.3	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.4	U	35.4	220	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	68.7		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	69.6		15 - 107	46%	SPK: 150
4165-60-0	Nitrobenzene-d5	41.8		18 - 107	42%	SPK: 100
321-60-8	2-Fluorobiphenyl	38.5		20 - 109	38%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.6		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	43.2		10 - 105	43%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	157000	6.898
1146-65-2	Naphthalene-d8	594000	8.181
15067-26-2	Acenaphthene-d10	320000	9.934
1517-22-2	Phenanthrene-d10	556000	11.422
1719-03-5	Chrysene-d12	352000	14.063
1520-96-3	Perylene-d12	349000	15.551

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	330	AB	5.11	ug/Kg
000119-61-9	Benzophenone	190	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	150	J	11.9	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	150	J	13.9	ug/Kg
	unknown17.756	100	J	17.8	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