

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-4	SDG No.:	Q1982
Lab Sample ID:	Q1982-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	30.02 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
BF142413.D	1	05/12/25 09:38	05/16/25 01:27	PB167953

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	25.3	U	25.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.8	U	27.8	190	ug/Kg
95-57-8	2-Chlorophenol	27.9	U	27.9	190	ug/Kg
95-48-7	2-Methylphenol	34.2	U	34.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.9	U	42.9	190	ug/Kg
98-86-2	Acetophenone	33.7	U	33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	47.0	U	47.0	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.2	U	54.2	91.5	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	37.5	U	37.5	190	ug/Kg
88-75-5	2-Nitrophenol	66.5	U	66.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	74.1	U	74.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.2	U	35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	32.4	U	32.4	190	ug/Kg
91-20-3	Naphthalene	26.0	U	26.0	190	ug/Kg
106-47-8	4-Chloroaniline	40.5	U	40.5	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.9	U	28.9	190	ug/Kg
105-60-2	Caprolactam	59.6	U	59.6	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.8	U	32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	29.3	U	29.3	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	33.3	U	33.3	190	ug/Kg
92-52-4	1,1-Biphenyl	24.9	U	24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.7	U	25.7	190	ug/Kg
88-74-4	2-Nitroaniline	55.0	U	55.0	190	ug/Kg
131-11-3	Dimethylphthalate	31.0	U	31.0	190	ug/Kg

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208-96-8	Acenaphthylene	33.0	U	33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.4	U	38.4	190	ug/Kg
99-09-2	3-Nitroaniline	52.6	U	52.6	190	ug/Kg
83-32-9	Acenaphthene	24.4	U	24.4	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	26.0	U	26.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.3	UQ	57.3	190	ug/Kg
84-66-2	Diethylphthalate	32.4	U	32.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.5	U	30.5	190	ug/Kg
86-73-7	Fluorene	100	J	28.9	190	ug/Kg
100-01-6	4-Nitroaniline	73.4	UQ	73.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.6	U	37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.8	U	31.8	190	ug/Kg
118-74-1	Hexachlorobenzene	28.9	U	28.9	190	ug/Kg
1912-24-9	Atrazine	38.9	U	38.9	190	ug/Kg
87-86-5	Pentachlorophenol	58.7	UQ	58.7	380	ug/Kg
85-01-8	Phenanthrene	230		23.9	190	ug/Kg
120-12-7	Anthracene	92.8	J	38.1	190	ug/Kg
86-74-8	Carbazole	35.7	U	35.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.8	U	54.8	190	ug/Kg
206-44-0	Fluoranthene	510		34.3	190	ug/Kg
129-00-0	Pyrene	450		41.2	190	ug/Kg
85-68-7	Butylbenzylphthalate	81.6	U	81.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.0	U	42.0	380	ug/Kg
56-55-3	Benzo(a)anthracene	290		26.3	190	ug/Kg
218-01-9	Chrysene	260		22.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	180	J	67.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	99.2	U	99.2	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	380		21.7	190	ug/Kg

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207-08-9	Benzo(k)fluoranthene	110	J	25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	280		33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	J	33.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.3	U	31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	J	29.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.3	U	29.3	190	ug/Kg
123-91-1	1,4-Dioxane	51.7	U	51.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.3	U	31.3	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	79.9		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	79.6		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	56.8		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.2		20 - 109	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.6		10 - 116	53%	SPK: 150
1718-51-0	Terphenyl-d14	50.1		10 - 105	50%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	176000	6.904
1146-65-2	Naphthalene-d8	649000	8.186
15067-26-2	Acenaphthene-d10	309000	9.939
1517-22-2	Phenanthrene-d10	450000	11.427
1719-03-5	Chrysene-d12	299000	14.068
1520-96-3	Perylene-d12	225000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	260	AB	5.12	ug/Kg
000119-61-9	Benzophenone	140	J	10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J	12.0	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	140	J	12.0	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	98.7	J	13.2	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	140	J	13.9	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