

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-10	SDG No.:	Q2010
Lab Sample ID:	Q2010-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	93.3
Sample Wt/Vol:	30.06	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
		Final Vol:	1000
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142412.D	1	05/13/25 09:05	05/16/25 00:58	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	350	ug/Kg
108-95-2	Phenol	23.6	U	23.6	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.0	U	26.0	180	ug/Kg
95-57-8	2-Chlorophenol	26.1	U	26.1	180	ug/Kg
95-48-7	2-Methylphenol	32.0	U	32.0	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.1	U	40.1	180	ug/Kg
98-86-2	Acetophenone	31.6	U	31.6	180	ug/Kg
65794-96-9	3+4-Methylphenols	44.0	U	44.0	350	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	50.7	U	50.7	85.6	ug/Kg
67-72-1	Hexachloroethane	18.8	U	18.8	180	ug/Kg
98-95-3	Nitrobenzene	19.6	U	19.6	180	ug/Kg
78-59-1	Isophorone	35.1	U	35.1	180	ug/Kg
88-75-5	2-Nitrophenol	62.3	U	62.3	180	ug/Kg
105-67-9	2,4-Dimethylphenol	69.3	U	69.3	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	32.9	U	32.9	180	ug/Kg
120-83-2	2,4-Dichlorophenol	30.3	U	30.3	180	ug/Kg
91-20-3	Naphthalene	24.3	U	24.3	180	ug/Kg
106-47-8	4-Chloroaniline	37.9	U	37.9	180	ug/Kg
87-68-3	Hexachlorobutadiene	27.1	U	27.1	180	ug/Kg
105-60-2	Caprolactam	55.7	U	55.7	350	ug/Kg
59-50-7	4-Chloro-3-methylphenol	30.7	U	30.7	180	ug/Kg
91-57-6	2-Methylnaphthalene	27.4	U	27.4	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	350	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.2	U	21.2	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.1	U	31.1	180	ug/Kg
92-52-4	1,1-Biphenyl	23.3	U	23.3	180	ug/Kg
91-58-7	2-Chloronaphthalene	24.1	U	24.1	180	ug/Kg
88-74-4	2-Nitroaniline	51.5	U	51.5	180	ug/Kg
131-11-3	Dimethylphthalate	29.0	U	29.0	180	ug/Kg

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208-96-8	Acenaphthylene	30.9	U	30.9	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	35.9	U	35.9	180	ug/Kg
99-09-2	3-Nitroaniline	49.2	U	49.2	180	ug/Kg
83-32-9	Acenaphthene	22.8	U	22.8	180	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	350	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	350	ug/Kg
132-64-9	Dibenzofuran	24.3	U	24.3	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	53.6	U	53.6	180	ug/Kg
84-66-2	Diethylphthalate	30.3	U	30.3	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	28.6	U	28.6	180	ug/Kg
86-73-7	Fluorene	27.1	U	27.1	180	ug/Kg
100-01-6	4-Nitroaniline	68.7	U	68.7	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	350	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.2	U	35.2	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	29.7	U	29.7	180	ug/Kg
118-74-1	Hexachlorobenzene	27.1	U	27.1	180	ug/Kg
1912-24-9	Atrazine	36.4	U	36.4	180	ug/Kg
87-86-5	Pentachlorophenol	54.9	UQ	54.9	350	ug/Kg
85-01-8	Phenanthrene	150	J	22.4	180	ug/Kg
120-12-7	Anthracene	35.6	U	35.6	180	ug/Kg
86-74-8	Carbazole	33.4	U	33.4	180	ug/Kg
84-74-2	Di-n-butylphthalate	51.2	U	51.2	180	ug/Kg
206-44-0	Fluoranthene	510		32.1	180	ug/Kg
129-00-0	Pyrene	380		38.5	180	ug/Kg
85-68-7	Butylbenzylphthalate	76.4	U	76.4	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	39.3	U	39.3	350	ug/Kg
56-55-3	Benzo(a)anthracene	220		24.6	180	ug/Kg
218-01-9	Chrysene	280		21.3	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	180		63.3	180	ug/Kg
117-84-0	Di-n-octyl phthalate	92.8	U	92.8	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	370		20.3	180	ug/Kg

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207-08-9	Benzo(k)fluoranthene	140	J	24.0	180	ug/Kg
50-32-8	Benzo(a)pyrene	250		31.6	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130	J	31.1	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.3	U	29.3	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	J	27.5	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.4	U	27.4	180	ug/Kg
123-91-1	1,4-Dioxane	48.3	U	48.3	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.3	U	29.3	180	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	67.2		18 - 112	45%	SPK: 150
13127-88-3	Phenol-d6	67.8		15 - 107	45%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.3		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.4		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	67.4		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	40.7		10 - 105	41%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	160000	6.904
1146-65-2	Naphthalene-d8	587000	8.186
15067-26-2	Acenaphthene-d10	279000	9.939
1517-22-2	Phenanthrene-d10	408000	11.427
1719-03-5	Chrysene-d12	296000	14.062
1520-96-3	Perylene-d12	223000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB	5.12	ug/Kg
000119-61-9	Benzophenone	120	J	10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	220	J	11.9	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	84.5	J	13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	180	J	15.4	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