

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.3
Sample Wt/Vol:	30.07 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		

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BF142977.D	1	07/01/25 09:30	07/02/25 18:20	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	370	ug/Kg
108-95-2	Phenol	25.0	U	25.0	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.5	U	27.5	190	ug/Kg
95-57-8	2-Chlorophenol	27.6	U	27.6	190	ug/Kg
95-48-7	2-Methylphenol	33.8	U	33.8	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.4	U	42.4	190	ug/Kg
98-86-2	Acetophenone	33.3	U	33.3	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.4	U	46.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.6	U	53.6	90.4	ug/Kg
67-72-1	Hexachloroethane	19.9	U	19.9	190	ug/Kg
98-95-3	Nitrobenzene	20.7	U	20.7	190	ug/Kg
78-59-1	Isophorone	37.1	U	37.1	190	ug/Kg
88-75-5	2-Nitrophenol	65.8	U	65.8	190	ug/Kg
105-67-9	2,4-Dimethylphenol	73.2	U	73.2	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.8	U	34.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	32.0	U	32.0	190	ug/Kg
91-20-3	Naphthalene	25.6	U	25.6	190	ug/Kg
106-47-8	4-Chloroaniline	40.0	U	40.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.6	U	28.6	190	ug/Kg
105-60-2	Caprolactam	58.9	U	58.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.4	U	32.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.9	U	28.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.4	U	22.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.9	U	32.9	190	ug/Kg
92-52-4	1,1-Biphenyl	24.6	U	24.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.4	U	25.4	190	ug/Kg
88-74-4	2-Nitroaniline	54.3	U	54.3	190	ug/Kg
131-11-3	Dimethylphthalate	30.6	U	30.6	190	ug/Kg

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208-96-8	Acenaphthylene	32.7	U	32.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.0	U	38.0	190	ug/Kg
99-09-2	3-Nitroaniline	52.0	U	52.0	190	ug/Kg
83-32-9	Acenaphthene	24.1	U	24.1	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.6	U	25.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.6	U	56.6	190	ug/Kg
84-66-2	Diethylphthalate	32.0	U	32.0	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.2	U	30.2	190	ug/Kg
86-73-7	Fluorene	28.6	U	28.6	190	ug/Kg
100-01-6	4-Nitroaniline	72.5	U	72.5	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.2	U	37.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.4	U	31.4	190	ug/Kg
118-74-1	Hexachlorobenzene	28.6	U	28.6	190	ug/Kg
1912-24-9	Atrazine	38.4	U	38.4	190	ug/Kg
87-86-5	Pentachlorophenol	58.0	U	58.0	370	ug/Kg
85-01-8	Phenanthrene	120	J	23.6	190	ug/Kg
120-12-7	Anthracene	37.6	U	37.6	190	ug/Kg
86-74-8	Carbazole	35.3	U	35.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.1	U	54.1	190	ug/Kg
206-44-0	Fluoranthene	620		33.9	190	ug/Kg
129-00-0	Pyrene	650		40.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.7	UQ	80.7	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.5	U	41.5	370	ug/Kg
56-55-3	Benzo(a)anthracene	550		26.0	190	ug/Kg
218-01-9	Chrysene	570		22.5	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.9	U	66.9	190	ug/Kg
117-84-0	Di-n-octyl phthalate	98.1	U	98.1	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	770		21.5	190	ug/Kg

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207-08-9	Benzo(k)fluoranthene	240		25.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	540		33.3	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	J	32.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.0	U	31.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	210		29.0	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.9	U	28.9	190	ug/Kg
123-91-1	1,4-Dioxane	51.1	U	51.1	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.0	U	31.0	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	69.3		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	71.3		15 - 107	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.3		18 - 107	44%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.9		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	64.0		10 - 116	43%	SPK: 150
1718-51-0	Terphenyl-d14	28.5		10 - 105	28%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	55700	6.869
1146-65-2	Naphthalene-d8	210000	8.157
15067-26-2	Acenaphthene-d10	106000	9.91
1517-22-2	Phenanthrene-d10	155000	11.404
1719-03-5	Chrysene-d12	111000	14.051
1520-96-3	Perylene-d12	102000	15.539

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB	5.08	ug/Kg
000119-61-9	Benzophenone	180	J	10.6	ug/Kg
000610-48-0	Anthracene, 1-methyl-	77.2	J	11.9	ug/Kg
000613-12-7	Anthracene, 2-methyl-	160	J	11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	130	J	12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	170	J	12.5	ug/Kg
001576-67-6	Phenanthrene, 3,6-dimethyl-	100	J	12.5	ug/Kg

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	unknown12.545	97.2	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	120	J		13.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	160	J		13.2	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	82.5	J		13.2	ug/Kg
003442-78-2	Pyrene, 2-methyl-	110	J		13.3	ug/Kg
003353-12-6	Pyrene, 4-methyl-	81.7	J		13.4	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	82.9	J		13.7	ug/Kg
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	93.0	J		13.8	ug/Kg
080252-14-8	6H-Benz[de]anthracen-6-one	110	J		13.9	ug/Kg
002541-69-7	Benz[a]anthracene, 7-methyl-	130	J		14.4	ug/Kg
000198-55-0	Perylene	76.1	J		15.2	ug/Kg
000192-97-2	Benzo[e]pyrene	410	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