

Report of Analysis

Client:	PSEG	Date Collected:	03/06/25
Project:	Somerset HQ	Date Received:	03/06/25
Client Sample ID:	RBR251372	SDG No.:	Q1508
Lab Sample ID:	Q1508-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	71
Sample Wt/Vol:	50.04	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
BF141917.D	1	03/07/25 08:55	03/11/25 15:26	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.15	U	0.15	0.28	mg/Kg
108-95-2	Phenol	0.070	U	0.070	0.14	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.071	U	0.071	0.14	mg/Kg
95-57-8	2-Chlorophenol	0.071	U	0.071	0.14	mg/Kg
95-48-7	2-Methylphenol	0.068	U	0.068	0.14	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.077	U	0.077	0.14	mg/Kg
98-86-2	Acetophenone	0.073	U	0.073	0.14	mg/Kg
65794-96-9	3+4-Methylphenols	0.067	U	0.067	0.28	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.034	U	0.034	0.068	mg/Kg
67-72-1	Hexachloroethane	0.070	U	0.070	0.14	mg/Kg
98-95-3	Nitrobenzene	0.077	U	0.077	0.14	mg/Kg
78-59-1	Isophorone	0.071	U	0.071	0.14	mg/Kg
88-75-5	2-Nitrophenol	0.080	U	0.080	0.14	mg/Kg
105-67-9	2,4-Dimethylphenol	0.079	U	0.079	0.14	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.072	U	0.072	0.14	mg/Kg
120-83-2	2,4-Dichlorophenol	0.064	U	0.064	0.14	mg/Kg
91-20-3	Naphthalene	0.070	U	0.070	0.14	mg/Kg
106-47-8	4-Chloroaniline	0.070	U	0.070	0.14	mg/Kg
87-68-3	Hexachlorobutadiene	0.070	U	0.070	0.14	mg/Kg
105-60-2	Caprolactam	0.073	U	0.073	0.28	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.065	U	0.065	0.14	mg/Kg
91-57-6	2-Methylnaphthalene	0.070	U	0.070	0.14	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.13	U	0.13	0.28	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.060	U	0.060	0.14	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.063	U	0.063	0.14	mg/Kg
92-52-4	1,1-Biphenyl	0.074	U	0.074	0.14	mg/Kg
91-58-7	2-Chloronaphthalene	0.070	U	0.070	0.14	mg/Kg
88-74-4	2-Nitroaniline	0.080	U	0.080	0.14	mg/Kg
131-11-3	Dimethylphthalate	0.069	U	0.069	0.14	mg/Kg

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208-96-8	Acenaphthylene	0.073	U	0.073	0.14	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.070	U	0.070	0.14	mg/Kg
99-09-2	3-Nitroaniline	0.075	U	0.075	0.14	mg/Kg
83-32-9	Acenaphthene	0.069	U	0.069	0.14	mg/Kg
51-28-5	2,4-Dinitrophenol	0.21	U	0.21	0.28	mg/Kg
100-02-7	4-Nitrophenol	0.098	U	0.098	0.28	mg/Kg
132-64-9	Dibenzofuran	0.071	U	0.071	0.14	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.073	U	0.073	0.14	mg/Kg
84-66-2	Diethylphthalate	0.068	U	0.068	0.14	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.072	U	0.072	0.14	mg/Kg
86-73-7	Fluorene	0.072	U	0.072	0.14	mg/Kg
100-01-6	4-Nitroaniline	0.090	U	0.090	0.14	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.099	U	0.099	0.28	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.069	U	0.069	0.14	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.067	U	0.067	0.14	mg/Kg
118-74-1	Hexachlorobenzene	0.072	U	0.072	0.14	mg/Kg
1912-24-9	Atrazine	0.077	U	0.077	0.14	mg/Kg
87-86-5	Pentachlorophenol	0.40		0.065	0.28	mg/Kg
85-01-8	Phenanthrene	0.73		0.071	0.14	mg/Kg
120-12-7	Anthracene	0.090	J	0.071	0.14	mg/Kg
86-74-8	Carbazole	0.068	U	0.068	0.14	mg/Kg
84-74-2	Di-n-butylphthalate	0.11	J	0.071	0.14	mg/Kg
206-44-0	Fluoranthene	1.60		0.069	0.14	mg/Kg
129-00-0	Pyrene	0.85		0.070	0.14	mg/Kg
85-68-7	Butylbenzylphthalate	0.082	U	0.082	0.14	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.083	U	0.083	0.28	mg/Kg
56-55-3	Benzo(a)anthracene	0.63		0.068	0.14	mg/Kg
218-01-9	Chrysene	0.71		0.067	0.14	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1.50		0.077	0.14	mg/Kg
117-84-0	Di-n-octyl phthalate	0.093	U	0.093	0.28	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.10		0.069	0.14	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.33		0.070	0.14	mg/Kg
50-32-8	Benzo(a)pyrene	0.63		0.079	0.14	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.35		0.066	0.14	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.100	J	0.069	0.14	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.38		0.068	0.14	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.073	U	0.073	0.14	mg/Kg
123-91-1	1,4-Dioxane	0.093	U	0.093	0.14	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.063	U	0.063	0.14	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	83.7		18 - 112	56%	SPK: 150
13127-88-3	Phenol-d6	83.0		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.4		18 - 107	61%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.6		20 - 109	63%	SPK: 100
118-79-6	2,4,6-Tribromophenol	91.1		10 - 116	61%	SPK: 150
1718-51-0	Terphenyl-d14	41.7		10 - 105	42%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	134000	6.881
1146-65-2	Naphthalene-d8	490000	8.157
15067-26-2	Acenaphthene-d10	231000	9.916
1517-22-2	Phenanthrene-d10	367000	11.422
1719-03-5	Chrysene-d12	379000	14.08
1520-96-3	Perylene-d12	254000	15.551

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	920	J	2.13	ug/Kg
020324-32-7	2-Propanol, 1-(2-methoxy-1-methyle	800	J	6.69	ug/Kg
000106-62-7	1-Propanol, 2-(2-hydroxypropoxy)-	210	J	6.71	ug/Kg
000108-61-2	1-Propanol, 2,2-oxybis-	1500	J	6.80	ug/Kg
	unknown9.316	150	J	9.32	ug/Kg
	unknown9.633	370	J	9.63	ug/Kg
019780-11-1	2-Dodecen-1-yl(-)succinic anhydrid	250	J	9.79	ug/Kg

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	unknown9.828	380	J		9.83	ug/Kg
	unknown10.333	500	J		10.3	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