

Report of Analysis

Client:	PSEG	Date Collected:	04/21/25
Project:	Lawrenceville HQ	Date Received:	04/21/25
Client Sample ID:	ETGI-342	SDG No.:	Q1848
Lab Sample ID:	Q1848-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.5
Sample Wt/Vol:	50.1	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
		GPC Cleanup :	N
		PH :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049993.D	1	04/22/25 09:20	04/22/25 13:12	PB167689

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.11	U	0.11	0.23	mg/Kg
108-95-2	Phenol	0.015	U	0.015	0.12	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.017	U	0.017	0.12	mg/Kg
95-57-8	2-Chlorophenol	0.017	U	0.017	0.12	mg/Kg
95-48-7	2-Methylphenol	0.021	U	0.021	0.12	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.026	U	0.026	0.12	mg/Kg
98-86-2	Acetophenone	0.020	U	0.020	0.12	mg/Kg
65794-96-9	3+4-Methylphenols	0.028	U	0.028	0.23	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.032	U	0.032	0.055	mg/Kg
67-72-1	Hexachloroethane	0.012	U	0.012	0.12	mg/Kg
98-95-3	Nitrobenzene	0.013	U	0.013	0.12	mg/Kg
78-59-1	Isophorone	0.022	U	0.022	0.12	mg/Kg
88-75-5	2-Nitrophenol	0.040	U	0.040	0.12	mg/Kg
105-67-9	2,4-Dimethylphenol	0.044	U	0.044	0.12	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.021	U	0.021	0.12	mg/Kg
120-83-2	2,4-Dichlorophenol	0.019	U	0.019	0.12	mg/Kg
91-20-3	Naphthalene	0.016	U	0.016	0.12	mg/Kg
106-47-8	4-Chloroaniline	0.024	U	0.024	0.12	mg/Kg
87-68-3	Hexachlorobutadiene	0.017	U	0.017	0.12	mg/Kg
105-60-2	Caprolactam	0.036	U	0.036	0.23	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.020	U	0.020	0.12	mg/Kg
91-57-6	2-Methylnaphthalene	0.018	U	0.018	0.12	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.079	U	0.079	0.23	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.014	U	0.014	0.12	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.020	U	0.020	0.12	mg/Kg
92-52-4	1,1-Biphenyl	0.015	U	0.015	0.12	mg/Kg
91-58-7	2-Chloronaphthalene	0.015	U	0.015	0.12	mg/Kg
88-74-4	2-Nitroaniline	0.033	U	0.033	0.12	mg/Kg
131-11-3	Dimethylphthalate	0.019	U	0.019	0.12	mg/Kg

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Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

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208-96-8	Acenaphthylene	0.22		0.020	0.12	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.023	U	0.023	0.12	mg/Kg
99-09-2	3-Nitroaniline	0.032	U	0.032	0.12	mg/Kg
83-32-9	Acenaphthene	0.21		0.015	0.12	mg/Kg
51-28-5	2,4-Dinitrophenol	0.16	U	0.16	0.23	mg/Kg
100-02-7	4-Nitrophenol	0.073	U	0.073	0.23	mg/Kg
132-64-9	Dibenzofuran	0.092	J	0.016	0.12	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.034	U	0.034	0.12	mg/Kg
84-66-2	Diethylphthalate	0.019	U	0.019	0.12	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.018	U	0.018	0.12	mg/Kg
86-73-7	Fluorene	0.20		0.017	0.12	mg/Kg
100-01-6	4-Nitroaniline	0.044	U	0.044	0.12	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.071	U	0.071	0.23	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.023	U	0.023	0.12	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.019	U	0.019	0.12	mg/Kg
118-74-1	Hexachlorobenzene	0.017	U	0.017	0.12	mg/Kg
1912-24-9	Atrazine	0.023	U	0.023	0.12	mg/Kg
87-86-5	Pentachlorophenol	0.093	J	0.035	0.23	mg/Kg
85-01-8	Phenanthrene	2.40	E	0.014	0.12	mg/Kg
120-12-7	Anthracene	1.10		0.023	0.12	mg/Kg
86-74-8	Carbazole	0.28		0.021	0.12	mg/Kg
84-74-2	Di-n-butylphthalate	0.033	U	0.033	0.12	mg/Kg
206-44-0	Fluoranthene	4.10	E	0.021	0.12	mg/Kg
129-00-0	Pyrene	3.90	E	0.025	0.12	mg/Kg
85-68-7	Butylbenzylphthalate	0.049	U	0.049	0.12	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.025	U	0.025	0.23	mg/Kg
56-55-3	Benzo(a)anthracene	2.80	E	0.016	0.12	mg/Kg
218-01-9	Chrysene	3.30	E	0.014	0.12	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.041	U	0.041	0.12	mg/Kg
117-84-0	Di-n-octyl phthalate	0.059	U	0.059	0.23	mg/Kg
205-99-2	Benzo(b)fluoranthene	3.80	E	0.013	0.12	mg/Kg

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Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Final Vol:	1000
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

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207-08-9	Benzo(k)fluoranthene	1.20		0.015	0.12	mg/Kg
50-32-8	Benzo(a)pyrene	2.20	E	0.020	0.12	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.00		0.020	0.12	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.35		0.019	0.12	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.00		0.018	0.12	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.018	U	0.018	0.12	mg/Kg
123-91-1	1,4-Dioxane	0.031	U	0.031	0.12	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.019	U	0.019	0.12	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	90.1		18 - 112	60%	SPK: 150
13127-88-3	Phenol-d6	102		15 - 107	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.1		18 - 107	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.8		20 - 109	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	68.2		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	74.2		10 - 105	74%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	322000	7.763
1146-65-2	Naphthalene-d8	1140000	10.557
15067-26-2	Acenaphthene-d10	754000	14.41
1517-22-2	Phenanthrene-d10	1500000	17.157
1719-03-5	Chrysene-d12	1500000	21.409
1520-96-3	Perylene-d12	1530000	24.415

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	470	A	4.89	ug/Kg
000119-61-9	Benzophenone	170	J	15.8	ug/Kg
002235-15-6	1(2H)-Acenaphthylene	100	J	16.1	ug/Kg
000132-65-0	Dibenzothiophene	160	J	17.0	ug/Kg
000613-12-7	Anthracene, 2-methyl-	320	J	18.0	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	880	J	18.1	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	240	J	18.2	ug/Kg

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Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

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000203-64-5	4H-Cyclopenta[def]phenanthrene	820	J		18.2	ug/Kg
000779-02-2	Anthracene, 9-methyl-	190	J		18.3	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	270	J		18.5	ug/Kg
000084-65-1	9,10-Anthracenedione	450	J		18.6	ug/Kg
001576-67-6	Phenanthrene, 3,6-dimethyl-	100	J		18.9	ug/Kg
002789-88-0	di-p-Tolylacetylene	240	J		19.0	ug/Kg
1000486-24-6	4-Methyl-1H-benzimidazole, 1TMS d 120		J		19.0	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	490	J		19.1	ug/Kg
000613-59-2	Naphthalene, 2-(phenylmethyl)-	100	J		19.3	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	120	J		20.1	ug/Kg
000192-97-2	Benzo[e]pyrene	310	J		23.7	ug/Kg
000205-82-3	Benzo[j]fluoranthene	1400	J		24.1	ug/Kg
	unknown24.486	460	J		24.5	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