

Report of Analysis

Client:	PSEG	Date Collected:	07/08/25
Project:	Lawrenceville HQ	Date Received:	07/08/25
Client Sample ID:	AR520-0015	SDG No.:	Q2527
Lab Sample ID:	Q2527-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.6
Sample Wt/Vol:	50.04	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BF143066.D	5	07/09/25 08:55	07/09/25 20:04	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1.30	U	0.59	1.30	mg/Kg
108-95-2	Phenol	0.65	U	0.084	0.65	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.65	U	0.093	0.65	mg/Kg
95-57-8	2-Chlorophenol	0.65	U	0.093	0.65	mg/Kg
95-48-7	2-Methylphenol	0.65	U	0.11	0.65	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.65	U	0.14	0.65	mg/Kg
98-86-2	Acetophenone	0.65	U	0.11	0.65	mg/Kg
65794-96-9	3+4-Methylphenols	1.30	U	0.16	1.30	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.31	U	0.18	0.31	mg/Kg
67-72-1	Hexachloroethane	0.65	U	0.067	0.65	mg/Kg
98-95-3	Nitrobenzene	0.65	U	0.070	0.65	mg/Kg
78-59-1	Isophorone	0.65	U	0.13	0.65	mg/Kg
88-75-5	2-Nitrophenol	0.65	U	0.22	0.65	mg/Kg
105-67-9	2,4-Dimethylphenol	0.65	U	0.25	0.65	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.65	U	0.12	0.65	mg/Kg
120-83-2	2,4-Dichlorophenol	0.65	U	0.11	0.65	mg/Kg
91-20-3	Naphthalene	0.65	U	0.087	0.65	mg/Kg
106-47-8	4-Chloroaniline	0.65	U	0.14	0.65	mg/Kg
87-68-3	Hexachlorobutadiene	0.65	U	0.097	0.65	mg/Kg
105-60-2	Caprolactam	1.30	U	0.20	1.30	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.65	U	0.11	0.65	mg/Kg
91-57-6	2-Methylnaphthalene	0.65	U	0.098	0.65	mg/Kg
77-47-4	Hexachlorocyclopentadiene	1.30	U	0.44	1.30	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.65	U	0.076	0.65	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.65	U	0.11	0.65	mg/Kg
92-52-4	1,1-Biphenyl	0.65	U	0.083	0.65	mg/Kg
91-58-7	2-Chloronaphthalene	0.65	U	0.086	0.65	mg/Kg
88-74-4	2-Nitroaniline	0.65	U	0.18	0.65	mg/Kg
131-11-3	Dimethylphthalate	0.65	U	0.10	0.65	mg/Kg

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208-96-8	Acenaphthylene	0.65	U	0.11	0.65	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.65	U	0.13	0.65	mg/Kg
99-09-2	3-Nitroaniline	0.65	U	0.18	0.65	mg/Kg
83-32-9	Acenaphthene	0.29	J	0.081	0.65	mg/Kg
51-28-5	2,4-Dinitrophenol	1.30	U	0.87	1.30	mg/Kg
100-02-7	4-Nitrophenol	1.30	U	0.41	1.30	mg/Kg
132-64-9	Dibenzofuran	0.65	U	0.087	0.65	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.65	U	0.19	0.65	mg/Kg
84-66-2	Diethylphthalate	0.65	U	0.11	0.65	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.65	U	0.10	0.65	mg/Kg
86-73-7	Fluorene	0.39	J	0.097	0.65	mg/Kg
100-01-6	4-Nitroaniline	0.65	U	0.24	0.65	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1.30	U	0.39	1.30	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.65	U	0.13	0.65	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.65	U	0.11	0.65	mg/Kg
118-74-1	Hexachlorobenzene	0.65	U	0.097	0.65	mg/Kg
1912-24-9	Atrazine	0.65	U	0.13	0.65	mg/Kg
87-86-5	Pentachlorophenol	1.30	U	0.20	1.30	mg/Kg
85-01-8	Phenanthrene	4.60		0.080	0.65	mg/Kg
120-12-7	Anthracene	0.74		0.13	0.65	mg/Kg
86-74-8	Carbazole	0.45	J	0.12	0.65	mg/Kg
84-74-2	Di-n-butylphthalate	0.65	U	0.18	0.65	mg/Kg
206-44-0	Fluoranthene	9.80		0.11	0.65	mg/Kg
129-00-0	Pyrene	4.40		0.14	0.65	mg/Kg
85-68-7	Butylbenzylphthalate	0.65	U	0.27	0.65	mg/Kg
91-94-1	3,3-Dichlorobenzidine	1.30	U	0.14	1.30	mg/Kg
56-55-3	Benzo(a)anthracene	3.40		0.088	0.65	mg/Kg
218-01-9	Chrysene	3.00		0.076	0.65	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.65	U	0.23	0.65	mg/Kg
117-84-0	Di-n-octyl phthalate	1.30	U	0.33	1.30	mg/Kg
205-99-2	Benzo(b)fluoranthene	4.60		0.073	0.65	mg/Kg

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Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
		GPC Cleanup :	N
		PH :	
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207-08-9	Benzo(k)fluoranthene	1.40		0.085	0.65	mg/Kg
50-32-8	Benzo(a)pyrene	2.90		0.11	0.65	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.00		0.11	0.65	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.35	J	0.10	0.65	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.20		0.098	0.65	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.65	U	0.098	0.65	mg/Kg
123-91-1	1,4-Dioxane	0.65	U	0.17	0.65	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.65	U	0.10	0.65	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	77.1		18 - 112	51%	SPK: 150
13127-88-3	Phenol-d6	74.5		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.0		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.7		20 - 109	55%	SPK: 100
118-79-6	2,4,6-Tribromophenol	64.7		10 - 116	43%	SPK: 150
1718-51-0	Terphenyl-d14	32.4		10 - 105	32%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	40200	6.869
1146-65-2	Naphthalene-d8	142000	8.157
15067-26-2	Acenaphthene-d10	62000	9.91
1517-22-2	Phenanthrene-d10	106000	11.404
1719-03-5	Chrysene-d12	116000	14.051
1520-96-3	Perylene-d12	81500	15.545

TENTATIVE IDENTIFIED COMPOUNDS

000234-41-3	Naphtho[1,2-b]thiophene	320	J	11.3	ug/Kg
000610-48-0	Anthracene, 1-methyl-	780	J	11.9	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	1000	J	11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	2000	J	12.0	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	560	J	12.2	ug/Kg
000084-65-1	9,10-Anthracenedione	830	J	12.2	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	580	J	12.5	ug/Kg

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	unknown12.492	560	J		12.5	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	570	J		12.5	ug/Kg
1000474-34-3	6-Quinoxalinol, TMS derivative	310	J		12.7	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	460	J		13.2	ug/Kg
002381-21-7	Pyrene, 1-methyl-	320	J		13.3	ug/Kg
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	320	J		13.8	ug/Kg
095676-42-9	4,5-Dihydrobenzo[e]pyrene	540	J		14.9	ug/Kg
000207-93-2	Dinaphtho[1,2-b:1,2-d]furan	330	J		15.3	ug/Kg
000192-97-2	Benzo[e]pyrene	2200	J		15.4	ug/Kg
	unknown15.998	290	J		16.0	ug/Kg
000226-88-0	Benzo[a]naphthacene	330	J		17.2	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