

Report of Analysis

Client:	PSEG	Date Collected:	04/02/25
Project:	PSEG Clay Street	Date Received:	04/03/25
Client Sample ID:	Z-05A	SDG No.:	Q1712
Lab Sample ID:	Q1712-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.5
Sample Wt/Vol:	50.05	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
BM049826.D	2	04/04/25 08:55	04/04/25 16:40	PB167457

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.45	U	0.21	0.45	mg/Kg
108-95-2	Phenol	0.23	U	0.030	0.23	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.23	U	0.033	0.23	mg/Kg
95-57-8	2-Chlorophenol	0.23	U	0.033	0.23	mg/Kg
95-48-7	2-Methylphenol	0.23	U	0.041	0.23	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.23	U	0.051	0.23	mg/Kg
98-86-2	Acetophenone	0.23	U	0.040	0.23	mg/Kg
65794-96-9	3+4-Methylphenols	0.45	U	0.056	0.45	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.11	U	0.065	0.11	mg/Kg
67-72-1	Hexachloroethane	0.23	U	0.024	0.23	mg/Kg
98-95-3	Nitrobenzene	0.23	U	0.025	0.23	mg/Kg
78-59-1	Isophorone	0.23	U	0.045	0.23	mg/Kg
88-75-5	2-Nitrophenol	0.23	U	0.080	0.23	mg/Kg
105-67-9	2,4-Dimethylphenol	0.23	U	0.089	0.23	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.23	U	0.042	0.23	mg/Kg
120-83-2	2,4-Dichlorophenol	0.23	U	0.039	0.23	mg/Kg
91-20-3	Naphthalene	0.88		0.031	0.23	mg/Kg
106-47-8	4-Chloroaniline	0.23	U	0.049	0.23	mg/Kg
87-68-3	Hexachlorobutadiene	0.23	U	0.035	0.23	mg/Kg
105-60-2	Caprolactam	0.45	U	0.071	0.45	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.23	U	0.039	0.23	mg/Kg
91-57-6	2-Methylnaphthalene	0.48		0.035	0.23	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.45	U	0.16	0.45	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.23	U	0.027	0.23	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.23	U	0.040	0.23	mg/Kg
92-52-4	1,1-Biphenyl	0.12	J	0.030	0.23	mg/Kg
91-58-7	2-Chloronaphthalene	0.23	U	0.031	0.23	mg/Kg
88-74-4	2-Nitroaniline	0.23	U	0.066	0.23	mg/Kg
131-11-3	Dimethylphthalate	0.23	U	0.037	0.23	mg/Kg

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Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
		GPC Cleanup :	N
		PH :	
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208-96-8	Acenaphthylene	1.20		0.040	0.23	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.23	U	0.046	0.23	mg/Kg
99-09-2	3-Nitroaniline	0.23	U	0.063	0.23	mg/Kg
83-32-9	Acenaphthene	1.00		0.029	0.23	mg/Kg
51-28-5	2,4-Dinitrophenol	0.45	U	0.31	0.45	mg/Kg
100-02-7	4-Nitrophenol	0.45	U	0.15	0.45	mg/Kg
132-64-9	Dibenzofuran	0.90		0.031	0.23	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.23	U	0.069	0.23	mg/Kg
84-66-2	Diethylphthalate	0.23	U	0.039	0.23	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.23	U	0.037	0.23	mg/Kg
86-73-7	Fluorene	1.40		0.035	0.23	mg/Kg
100-01-6	4-Nitroaniline	0.23	U	0.088	0.23	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.45	U	0.14	0.45	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.23	U	0.045	0.23	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.23	U	0.038	0.23	mg/Kg
118-74-1	Hexachlorobenzene	0.23	U	0.035	0.23	mg/Kg
1912-24-9	Atrazine	0.23	U	0.047	0.23	mg/Kg
87-86-5	Pentachlorophenol	0.45	U	0.070	0.45	mg/Kg
85-01-8	Phenanthrene	9.70	E	0.029	0.23	mg/Kg
120-12-7	Anthracene	3.70	E	0.046	0.23	mg/Kg
86-74-8	Carbazole	1.70		0.043	0.23	mg/Kg
84-74-2	Di-n-butylphthalate	0.23	U	0.066	0.23	mg/Kg
206-44-0	Fluoranthene	9.20	E	0.041	0.23	mg/Kg
129-00-0	Pyrene	6.90	E	0.049	0.23	mg/Kg
85-68-7	Butylbenzylphthalate	0.23	U	0.098	0.23	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.45	U	0.050	0.45	mg/Kg
56-55-3	Benzo(a)anthracene	6.30	E	0.032	0.23	mg/Kg
218-01-9	Chrysene	6.50	E	0.027	0.23	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.23	U	0.081	0.23	mg/Kg
117-84-0	Di-n-octyl phthalate	0.45	U	0.12	0.45	mg/Kg
205-99-2	Benzo(b)fluoranthene	8.80	E	0.026	0.23	mg/Kg

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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
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207-08-9	Benzo(k)fluoranthene	3.00		0.031	0.23	mg/Kg
50-32-8	Benzo(a)pyrene	7.60	E	0.040	0.23	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	3.70	E	0.040	0.23	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.30		0.038	0.23	mg/Kg
191-24-2	Benzo(g,h,i)perylene	4.10	E	0.035	0.23	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.23	U	0.035	0.23	mg/Kg
123-91-1	1,4-Dioxane	0.23	U	0.062	0.23	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.23	U	0.038	0.23	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	93.3		18 - 112	62%	SPK: 150
13127-88-3	Phenol-d6	97.9		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.5		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.4		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 116	76%	SPK: 150
1718-51-0	Terphenyl-d14	42.7		10 - 105	43%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	325000	7.786
1146-65-2	Naphthalene-d8	1200000	10.58
15067-26-2	Acenaphthene-d10	825000	14.427
1517-22-2	Phenanthrene-d10	1660000	17.174
1719-03-5	Chrysene-d12	2040000	21.415
1520-96-3	Perylene-d12	2020000	24.427

TENTATIVE IDENTIFIED COMPOUNDS

90-12-0	1-Methylnaphthalene	470	J	12.5	ug/Kg
006344-67-8	9H-Fluoren-3-ol	650	J	15.8	ug/Kg
000486-25-9	9H-Fluoren-9-one	1300	J	16.8	ug/Kg
000132-65-0	Dibenzothiophene	1100	J	17.0	ug/Kg
067388-11-8	4-Methylnaphtho[1,2-b]thiophene	670	J	17.8	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	3500	J	18.1	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	4400	J	18.1	ug/Kg

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000832-64-4	Phenanthrene, 4-methyl-	1300	J		18.2	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	5200	J		18.2	ug/Kg
000779-02-2	Anthracene, 9-methyl-	2200	J		18.3	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	2000	J		18.6	ug/Kg
000084-65-1	9,10-Anthracenedione	1900	J		18.6	ug/Kg
003674-69-9	Phenanthrene, 4,5-dimethyl-	900	J		18.8	ug/Kg
001576-67-6	Phenanthrene, 3,6-dimethyl-	730	J		18.8	ug/Kg
000781-43-1	9,10-Dimethylanthracene	2400	J		19.0	ug/Kg
	unknown19.033	1600	J		19.0	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	2100	J		19.1	ug/Kg
	unknown23.127	950	J		23.1	ug/Kg
000192-97-2	Benzo[e]pyrene	1100	J		23.7	ug/Kg
000205-82-3	Benzo[j]fluoranthene	4700	J		24.2	ug/Kg
	unknown24.497	2000	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