

Report of Analysis

Client:	PSEG	Date Collected:	06/25/25
Project:	Bergen Point Substation	Date Received:	06/25/25
Client Sample ID:	72-11933	SDG No.:	Q2420
Lab Sample ID:	Q2420-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	93.9
Sample Wt/Vol:	50.03	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
BF142877.D	1	06/26/25 09:20	06/26/25 19:34	PB168625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.21	U	0.100	0.21	mg/Kg
108-95-2	Phenol	0.11	U	0.014	0.11	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.11	U	0.016	0.11	mg/Kg
95-57-8	2-Chlorophenol	0.11	U	0.016	0.11	mg/Kg
95-48-7	2-Methylphenol	0.11	U	0.019	0.11	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.11	U	0.024	0.11	mg/Kg
98-86-2	Acetophenone	0.11	U	0.019	0.11	mg/Kg
65794-96-9	3+4-Methylphenols	0.21	U	0.026	0.21	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.051	U	0.030	0.051	mg/Kg
67-72-1	Hexachloroethane	0.11	U	0.011	0.11	mg/Kg
98-95-3	Nitrobenzene	0.11	U	0.012	0.11	mg/Kg
78-59-1	Isophorone	0.11	U	0.021	0.11	mg/Kg
88-75-5	2-Nitrophenol	0.11	U	0.037	0.11	mg/Kg
105-67-9	2,4-Dimethylphenol	0.11	U	0.041	0.11	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.11	U	0.020	0.11	mg/Kg
120-83-2	2,4-Dichlorophenol	0.11	U	0.018	0.11	mg/Kg
91-20-3	Naphthalene	0.11	U	0.015	0.11	mg/Kg
106-47-8	4-Chloroaniline	0.11	U	0.023	0.11	mg/Kg
87-68-3	Hexachlorobutadiene	0.11	U	0.016	0.11	mg/Kg
105-60-2	Caprolactam	0.21	U	0.033	0.21	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.11	U	0.018	0.11	mg/Kg
91-57-6	2-Methylnaphthalene	0.11	U	0.016	0.11	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.21	U	0.074	0.21	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.11	U	0.013	0.11	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.11	U	0.019	0.11	mg/Kg
92-52-4	1,1-Biphenyl	0.11	U	0.014	0.11	mg/Kg
91-58-7	2-Chloronaphthalene	0.11	U	0.014	0.11	mg/Kg
88-74-4	2-Nitroaniline	0.11	U	0.031	0.11	mg/Kg
131-11-3	Dimethylphthalate	0.11	U	0.017	0.11	mg/Kg

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208-96-8	Acenaphthylene	0.15		0.019	0.11	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.11	U	0.022	0.11	mg/Kg
99-09-2	3-Nitroaniline	0.11	U	0.029	0.11	mg/Kg
83-32-9	Acenaphthene	2.90	E	0.014	0.11	mg/Kg
51-28-5	2,4-Dinitrophenol	0.21	U	0.15	0.21	mg/Kg
100-02-7	4-Nitrophenol	0.21	U	0.068	0.21	mg/Kg
132-64-9	Dibenzofuran	0.93		0.015	0.11	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.11	U	0.032	0.11	mg/Kg
84-66-2	Diethylphthalate	0.11	U	0.018	0.11	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.11	U	0.017	0.11	mg/Kg
86-73-7	Fluorene	2.20	E	0.016	0.11	mg/Kg
100-01-6	4-Nitroaniline	0.11	U	0.041	0.11	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.21	U	0.066	0.21	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.11	U	0.021	0.11	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.11	U	0.018	0.11	mg/Kg
118-74-1	Hexachlorobenzene	0.11	U	0.016	0.11	mg/Kg
1912-24-9	Atrazine	0.11	U	0.022	0.11	mg/Kg
87-86-5	Pentachlorophenol	0.21	U	0.033	0.21	mg/Kg
85-01-8	Phenanthrene	9.20	E	0.013	0.11	mg/Kg
120-12-7	Anthracene	2.00	E	0.021	0.11	mg/Kg
86-74-8	Carbazole	0.31		0.020	0.11	mg/Kg
84-74-2	Di-n-butylphthalate	0.11	U	0.031	0.11	mg/Kg
206-44-0	Fluoranthene	19.2	E	0.019	0.11	mg/Kg
129-00-0	Pyrene	11.0	E	0.023	0.11	mg/Kg
85-68-7	Butylbenzylphthalate	0.11	U	0.046	0.11	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.21	U	0.023	0.21	mg/Kg
56-55-3	Benzo(a)anthracene	6.00	E	0.015	0.11	mg/Kg
218-01-9	Chrysene	4.70	E	0.013	0.11	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.11	U	0.038	0.11	mg/Kg
117-84-0	Di-n-octyl phthalate	0.21	U	0.055	0.21	mg/Kg
205-99-2	Benzo(b)fluoranthene	4.30	E	0.012	0.11	mg/Kg

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		GPC Cleanup :	N
		PH :	
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207-08-9	Benzo(k)fluoranthene	0.70		0.014	0.11	mg/Kg
50-32-8	Benzo(a)pyrene	1.80	E	0.019	0.11	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.39		0.019	0.11	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.12		0.018	0.11	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.37		0.016	0.11	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.11	U	0.016	0.11	mg/Kg
123-91-1	1,4-Dioxane	0.11	U	0.029	0.11	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.11	U	0.018	0.11	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	69.4		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	70.6		15 - 107	47%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.4		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.4		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	55.6		10 - 116	37%	SPK: 150
1718-51-0	Terphenyl-d14	41.2		10 - 105	41%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	79500	6.875
1146-65-2	Naphthalene-d8	294000	8.157
15067-26-2	Acenaphthene-d10	137000	9.916
1517-22-2	Phenanthrene-d10	184000	11.416
1719-03-5	Chrysene-d12	131000	14.074
1520-96-3	Perylene-d12	134000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

90-12-0	1-Methylnaphthalene	60.6	J	8.97	ug/Kg
000571-61-9	Naphthalene, 1,5-dimethyl-	160	J	9.50	ug/Kg
000575-37-1	Naphthalene, 1,7-dimethyl-	260	J	9.57	ug/Kg
000571-58-4	Naphthalene, 1,4-dimethyl-	190	J	9.69	ug/Kg
000829-26-5	Naphthalene, 2,3,6-trimethyl-	190	J	10.2	ug/Kg
002245-38-7	Naphthalene, 1,6,7-trimethyl-	180	J	10.3	ug/Kg
000613-33-2	4,4-Dimethylbiphenyl	180	J	10.4	ug/Kg

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001855-47-6	1-Isopropenylnaphthalene	1100	J		10.5	ug/Kg
007320-53-8	Dibenzofuran, 4-methyl-	680	J		10.6	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	210	J		12.0	ug/Kg
002381-21-7	Pyrene, 1-methyl-	130	J		13.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	220	J		13.2	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	140	J		13.3	ug/Kg
003442-78-2	Pyrene, 2-methyl-	150	J		13.3	ug/Kg
094154-49-1	4,6-Biazulenyl	270	J		15.0	ug/Kg
000207-93-2	Dinaphtho[1,2-b:1,2-d]furan	180	J		15.3	ug/Kg
000192-97-2	Benzo[e]pyrene	1100	J		15.4	ug/Kg
	unknown15.710	160	J		15.7	ug/Kg
000083-46-5	.beta.-Sitosterol	300	J		17.7	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