

Report of Analysis

Client:	PSEG	Date Collected:	03/12/25
Project:	Roseland Switching Station	Date Received:	03/12/25
Client Sample ID:	RT2321	SDG No.:	Q1553
Lab Sample ID:	Q1553-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	50.06	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
BF141971.D	5	03/13/25 09:25	03/14/25 18:06	PB167113

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1.20	U	0.56	1.20	mg/Kg
108-95-2	Phenol	0.61	U	0.080	0.61	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.61	U	0.087	0.61	mg/Kg
95-57-8	2-Chlorophenol	0.61	U	0.088	0.61	mg/Kg
95-48-7	2-Methylphenol	0.61	U	0.11	0.61	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.61	U	0.13	0.61	mg/Kg
98-86-2	Acetophenone	0.61	U	0.11	0.61	mg/Kg
65794-96-9	3+4-Methylphenols	1.20	U	0.15	1.20	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.29	U	0.17	0.29	mg/Kg
67-72-1	Hexachloroethane	0.61	U	0.063	0.61	mg/Kg
98-95-3	Nitrobenzene	0.61	U	0.066	0.61	mg/Kg
78-59-1	Isophorone	0.61	U	0.12	0.61	mg/Kg
88-75-5	2-Nitrophenol	0.61	U	0.21	0.61	mg/Kg
105-67-9	2,4-Dimethylphenol	0.61	U	0.23	0.61	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.61	U	0.11	0.61	mg/Kg
120-83-2	2,4-Dichlorophenol	0.61	U	0.10	0.61	mg/Kg
91-20-3	Naphthalene	0.61	U	0.082	0.61	mg/Kg
106-47-8	4-Chloroaniline	0.61	U	0.13	0.61	mg/Kg
87-68-3	Hexachlorobutadiene	0.61	U	0.091	0.61	mg/Kg
105-60-2	Caprolactam	1.20	U	0.19	1.20	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.61	U	0.10	0.61	mg/Kg
91-57-6	2-Methylnaphthalene	0.61	U	0.092	0.61	mg/Kg
77-47-4	Hexachlorocyclopentadiene	1.20	U	0.42	1.20	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.61	U	0.071	0.61	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.61	U	0.10	0.61	mg/Kg
92-52-4	1,1-Biphenyl	0.61	U	0.078	0.61	mg/Kg
91-58-7	2-Chloronaphthalene	0.61	U	0.081	0.61	mg/Kg
88-74-4	2-Nitroaniline	0.61	U	0.17	0.61	mg/Kg
131-11-3	Dimethylphthalate	0.61	U	0.098	0.61	mg/Kg

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208-96-8	Acenaphthylene	0.61	U	0.10	0.61	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.61	U	0.12	0.61	mg/Kg
99-09-2	3-Nitroaniline	0.61	U	0.17	0.61	mg/Kg
83-32-9	Acenaphthene	0.61	U	0.077	0.61	mg/Kg
51-28-5	2,4-Dinitrophenol	1.20	U	0.82	1.20	mg/Kg
100-02-7	4-Nitrophenol	1.20	U	0.38	1.20	mg/Kg
132-64-9	Dibenzofuran	0.61	U	0.082	0.61	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.61	U	0.18	0.61	mg/Kg
84-66-2	Diethylphthalate	0.61	U	0.10	0.61	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.61	U	0.096	0.61	mg/Kg
86-73-7	Fluorene	0.61	U	0.091	0.61	mg/Kg
100-01-6	4-Nitroaniline	0.61	U	0.23	0.61	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1.20	U	0.37	1.20	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.61	U	0.12	0.61	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.61	U	0.10	0.61	mg/Kg
118-74-1	Hexachlorobenzene	0.61	U	0.091	0.61	mg/Kg
1912-24-9	Atrazine	0.61	U	0.12	0.61	mg/Kg
87-86-5	Pentachlorophenol	1.20	U	0.18	1.20	mg/Kg
85-01-8	Phenanthrene	1.20		0.075	0.61	mg/Kg
120-12-7	Anthracene	0.61	U	0.12	0.61	mg/Kg
86-74-8	Carbazole	0.61	U	0.11	0.61	mg/Kg
84-74-2	Di-n-butylphthalate	0.61	U	0.17	0.61	mg/Kg
206-44-0	Fluoranthene	0.38	J	0.11	0.61	mg/Kg
129-00-0	Pyrene	0.61	U	0.13	0.61	mg/Kg
85-68-7	Butylbenzylphthalate	0.61	U	0.26	0.61	mg/Kg
91-94-1	3,3-Dichlorobenzidine	1.20	U	0.13	1.20	mg/Kg
56-55-3	Benzo(a)anthracene	0.61	U	0.083	0.61	mg/Kg
218-01-9	Chrysene	0.61	U	0.072	0.61	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1.20		0.21	0.61	mg/Kg
117-84-0	Di-n-octyl phthalate	1.20	U	0.31	1.20	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.24	J	0.068	0.61	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.61	U	0.081	0.61	mg/Kg
50-32-8	Benzo(a)pyrene	0.61	U	0.11	0.61	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	U	0.10	0.61	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.61	U	0.099	0.61	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.61	U	0.092	0.61	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.61	U	0.092	0.61	mg/Kg
123-91-1	1,4-Dioxane	0.61	U	0.16	0.61	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.61	U	0.099	0.61	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	112		18 - 112	75%	SPK: 150
13127-88-3	Phenol-d6	99.7		15 - 107	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.8		18 - 107	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.6		20 - 109	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		10 - 116	73%	SPK: 150
1718-51-0	Terphenyl-d14	68.0		10 - 105	68%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	95500	6.881
1146-65-2	Naphthalene-d8	331000	8.157
15067-26-2	Acenaphthene-d10	175000	9.916
1517-22-2	Phenanthrene-d10	311000	11.422
1719-03-5	Chrysene-d12	274000	14.045
1520-96-3	Perylene-d12	203000	15.51

TENTATIVE IDENTIFIED COMPOUNDS

	unknown9.310	340	J	9.31	ug/Kg
	unknown9.622	1100	J	9.62	ug/Kg
000719-22-2	2,5-Cyclohexadiene-1,4-dione, 2,6-	1500	J	9.73	ug/Kg
080655-44-3	Decahydro-1,1,4a,5,6-pentamethylna	1100	J	9.78	ug/Kg
	unknown9.828	1700	J	9.83	ug/Kg
070412-52-1	2,11-Dioxabicyclo[4.4.1]undeca-3,5	3500	J	10.3	ug/Kg

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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