

Report of Analysis

Client: PSEG
Project: PSEG Aldene Switching Station & Substation
Client Sample ID: ETGI-369
Lab Sample ID: Q3633-01
Analytical Method: 8270E Level: LOW
Sample Wt/Vol: 50.02 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 11/14/25

Date Collected: 11/13/25
Date Received: 11/13/25
SDG No.: Q3633
Matrix: SOIL
% Solid: 82.2
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	0.23	U	2	0.23	0.48	mg/Kg	11/14/25 14:15	PB170551
108-95-2	Phenol	0.032	U	2	0.032	0.25	mg/Kg	11/14/25 14:15	PB170551
111-44-4	bis(2-Chloroethyl)ether	0.036	U	2	0.036	0.25	mg/Kg	11/14/25 14:15	PB170551
95-57-8	2-Chlorophenol	0.036	U	2	0.036	0.25	mg/Kg	11/14/25 14:15	PB170551
95-48-7	2-Methylphenol	0.044	U	2	0.044	0.25	mg/Kg	11/14/25 14:15	PB170551
108-60-1	2,2-oxybis(1-Chloropropane)	0.055	U	2	0.055	0.25	mg/Kg	11/14/25 14:15	PB170551
98-86-2	Acetophenone	0.043	U	2	0.043	0.25	mg/Kg	11/14/25 14:15	PB170551
65794-96-9	3+4-Methylphenols	0.060	U	2	0.060	0.48	mg/Kg	11/14/25 14:15	PB170551
621-64-7	n-Nitroso-di-n-propylamine	0.069	U	2	0.069	0.12	mg/Kg	11/14/25 14:15	PB170551
67-72-1	Hexachloroethane	0.026	U	2	0.026	0.25	mg/Kg	11/14/25 14:15	PB170551
98-95-3	Nitrobenzene	0.027	U	2	0.027	0.25	mg/Kg	11/14/25 14:15	PB170551
78-59-1	Isophorone	0.048	U	2	0.048	0.25	mg/Kg	11/14/25 14:15	PB170551
88-75-5	2-Nitrophenol	0.085	U	2	0.085	0.25	mg/Kg	11/14/25 14:15	PB170551
105-67-9	2,4-Dimethylphenol	0.095	U	2	0.095	0.25	mg/Kg	11/14/25 14:15	PB170551
111-91-1	bis(2-Chloroethoxy)methane	0.045	U	2	0.045	0.25	mg/Kg	11/14/25 14:15	PB170551
120-83-2	2,4-Dichlorophenol	0.041	U	2	0.041	0.25	mg/Kg	11/14/25 14:15	PB170551
91-20-3	Naphthalene	0.033	U	2	0.033	0.25	mg/Kg	11/14/25 14:15	PB170551
106-47-8	4-Chloroaniline	0.052	U	2	0.052	0.25	mg/Kg	11/14/25 14:15	PB170551
87-68-3	Hexachlorobutadiene	0.037	U	2	0.037	0.25	mg/Kg	11/14/25 14:15	PB170551
105-60-2	Caprolactam	0.076	U	2	0.076	0.48	mg/Kg	11/14/25 14:15	PB170551
59-50-7	4-Chloro-3-methylphenol	0.042	U	2	0.042	0.25	mg/Kg	11/14/25 14:15	PB170551
91-57-6	2-Methylnaphthalene	0.037	U	2	0.037	0.25	mg/Kg	11/14/25 14:15	PB170551
77-47-4	Hexachlorocyclopentadiene	0.17	U	2	0.17	0.48	mg/Kg	11/14/25 14:15	PB170551
88-06-2	2,4,6-Trichlorophenol	0.029	U	2	0.029	0.25	mg/Kg	11/14/25 14:15	PB170551
95-95-4	2,4,5-Trichlorophenol	0.043	U	2	0.043	0.25	mg/Kg	11/14/25 14:15	PB170551
92-52-4	1,1-Biphenyl	0.032	U	2	0.032	0.25	mg/Kg	11/14/25 14:15	PB170551
91-58-7	2-Chloronaphthalene	0.033	U	2	0.033	0.25	mg/Kg	11/14/25 14:15	PB170551
88-74-4	2-Nitroaniline	0.070	U	2	0.070	0.25	mg/Kg	11/14/25 14:15	PB170551
131-11-3	Dimethylphthalate	0.040	U	2	0.040	0.25	mg/Kg	11/14/25 14:15	PB170551
208-96-8	Acenaphthylene	0.042	U	2	0.042	0.25	mg/Kg	11/14/25 14:15	PB170551
606-20-2	2,6-Dinitrotoluene	0.049	U	2	0.049	0.25	mg/Kg	11/14/25 14:15	PB170551
99-09-2	3-Nitroaniline	0.067	U	2	0.067	0.25	mg/Kg	11/14/25 14:15	PB170551
83-32-9	Acenaphthene	0.031	U	2	0.031	0.25	mg/Kg	11/14/25 14:15	PB170551
51-28-5	2,4-Dinitrophenol	0.33	U	2	0.33	0.48	mg/Kg	11/14/25 14:15	PB170551
100-02-7	4-Nitrophenol	0.16	U	2	0.16	0.48	mg/Kg	11/14/25 14:15	PB170551
132-64-9	Dibenzofuran	0.033	U	2	0.033	0.25	mg/Kg	11/14/25 14:15	PB170551
121-14-2	2,4-Dinitrotoluene	0.073	U	2	0.073	0.25	mg/Kg	11/14/25 14:15	PB170551
84-66-2	Diethylphthalate	0.041	U	2	0.041	0.25	mg/Kg	11/14/25 14:15	PB170551
7005-72-3	4-Chlorophenyl-phenylether	0.039	U	2	0.039	0.25	mg/Kg	11/14/25 14:15	PB170551
86-73-7	Fluorene	0.037	U	2	0.037	0.25	mg/Kg	11/14/25 14:15	PB170551
100-01-6	4-Nitroaniline	0.094	U	2	0.094	0.25	mg/Kg	11/14/25 14:15	PB170551
534-52-1	4,6-Dinitro-2-methylphenol	0.15	U	2	0.15	0.48	mg/Kg	11/14/25 14:15	PB170551

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Sample Wt/Vol: 50.02 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 11/14/25

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SDG No.: Q3633
Matrix: SOIL
% Solid: 82.2
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	0.048	U	2	0.048	0.25	mg/Kg	11/14/25 14:15	PB170551
101-55-3	4-Bromophenyl-phenylether	0.041	U	2	0.041	0.25	mg/Kg	11/14/25 14:15	PB170551
118-74-1	Hexachlorobenzene	0.037	U	2	0.037	0.25	mg/Kg	11/14/25 14:15	PB170551
1912-24-9	Atrazine	0.050	U	2	0.050	0.25	mg/Kg	11/14/25 14:15	PB170551
87-86-5	Pentachlorophenol	0.075	U	2	0.075	0.48	mg/Kg	11/14/25 14:15	PB170551
85-01-8	Phenanthrene	0.14	J	2	0.031	0.25	mg/Kg	11/14/25 14:15	PB170551
120-12-7	Anthracene	0.049	U	2	0.049	0.25	mg/Kg	11/14/25 14:15	PB170551
86-74-8	Carbazole	0.046	U	2	0.046	0.25	mg/Kg	11/14/25 14:15	PB170551
84-74-2	Di-n-butylphthalate	0.070	U	2	0.070	0.25	mg/Kg	11/14/25 14:15	PB170551
206-44-0	Fluoranthene	0.22	J	2	0.044	0.25	mg/Kg	11/14/25 14:15	PB170551
129-00-0	Pyrene	0.30		2	0.053	0.25	mg/Kg	11/14/25 14:15	PB170551
85-68-7	Butylbenzylphthalate	0.10	U	2	0.10	0.25	mg/Kg	11/14/25 14:15	PB170551
91-94-1	3,3-Dichlorobenzidine	0.054	U	2	0.054	0.48	mg/Kg	11/14/25 14:15	PB170551
56-55-3	Benzo(a)anthracene	0.12	J	2	0.034	0.25	mg/Kg	11/14/25 14:15	PB170551
218-01-9	Chrysene	0.12	J	2	0.029	0.25	mg/Kg	11/14/25 14:15	PB170551
117-81-7	Bis(2-ethylhexyl)phthalate	0.086	U	2	0.086	0.25	mg/Kg	11/14/25 14:15	PB170551
117-84-0	Di-n-octyl phthalate	0.13	U	2	0.13	0.48	mg/Kg	11/14/25 14:15	PB170551
205-99-2	Benzo(b)fluoranthene	0.16	J	2	0.028	0.25	mg/Kg	11/14/25 14:15	PB170551
207-08-9	Benzo(k)fluoranthene	0.033	U	2	0.033	0.25	mg/Kg	11/14/25 14:15	PB170551
50-32-8	Benzo(a)pyrene	0.10	J	2	0.043	0.25	mg/Kg	11/14/25 14:15	PB170551
193-39-5	Indeno(1,2,3-cd)pyrene	0.043	U	2	0.043	0.25	mg/Kg	11/14/25 14:15	PB170551
53-70-3	Dibenzo(a,h)anthracene	0.040	U	2	0.040	0.25	mg/Kg	11/14/25 14:15	PB170551
191-24-2	Benzo(g,h,i)perylene	0.038	U	2	0.038	0.25	mg/Kg	11/14/25 14:15	PB170551
95-94-3	1,2,4,5-Tetrachlorobenzene	0.037	U	2	0.037	0.25	mg/Kg	11/14/25 14:15	PB170551
123-91-1	1,4-Dioxane	0.066	U	2	0.066	0.25	mg/Kg	11/14/25 14:15	PB170551
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	U	2	0.040	0.25	mg/Kg	11/14/25 14:15	PB170551

SURROGATES

367-12-4	2-Fluorophenol	77.9		10 - 105	52%	SPK: 150
13127-88-3	Phenol-d6	72.4		10 - 103	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.1		10 - 108	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.8		10 - 108	60%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.3		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	53.6		10 - 109	54%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	44200
1146-65-2	Naphthalene-d8	133000
15067-26-2	Acenaphthene-d10	65700
1517-22-2	Phenanthrene-d10	142000
1719-03-5	Chrysene-d12	110000
1520-96-3	Perylene-d12	87000

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	160	J	10.6	ug/Kg
022360-62-9	1-Methyl-3-phenyl-1H-indene	110	J	12.3	ug/Kg

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Project:	PSEG Aldene Switching Station & Substation	Date Received:	11/13/25
Client Sample ID:	ETGI-369	SDG No.:	Q3633
Lab Sample ID:	Q3633-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.2
Sample Wt/Vol:	50.02 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541		
	Level: LOW		
	Final Vol: 1000 uL		
	Prep Date: 11/14/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
033543-31-6	Fluoranthene, 2-methyl-	100	J			13.2	ug/Kg		
003442-78-2	Pyrene, 2-methyl-	110	J			13.3	ug/Kg		
000238-84-6	11H-Benzo[a]fluorene	150	J			13.4	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