

Report of Analysis

Client: PSEG
Project: Orange Gas and Appliance Service (EO)
Client Sample ID: EO-03-110625
Lab Sample ID: Q3562-01
Analytical Method: 8270E Level: LOW
Sample Wt/Vol: 50.02 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 11/07/25

Date Collected: 11/06/25
Date Received: 11/06/25
SDG No.: Q3562
Matrix: SOIL
% Solid: 92.1
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	0.10	U	1	0.10	0.21	mg/Kg	11/07/25 20:18	PB170450
108-95-2	Phenol	0.014	U	1	0.014	0.11	mg/Kg	11/07/25 20:18	PB170450
111-44-4	bis(2-Chloroethyl)ether	0.016	U	1	0.016	0.11	mg/Kg	11/07/25 20:18	PB170450
95-57-8	2-Chlorophenol	0.016	U	1	0.016	0.11	mg/Kg	11/07/25 20:18	PB170450
95-48-7	2-Methylphenol	0.020	U	1	0.020	0.11	mg/Kg	11/07/25 20:18	PB170450
108-60-1	2,2-oxybis(1-Chloropropane)	0.024	U	1	0.024	0.11	mg/Kg	11/07/25 20:18	PB170450
98-86-2	Acetophenone	0.019	U	1	0.019	0.11	mg/Kg	11/07/25 20:18	PB170450
65794-96-9	3+4-Methylphenols	0.027	U	1	0.027	0.21	mg/Kg	11/07/25 20:18	PB170450
621-64-7	n-Nitroso-di-n-propylamine	0.031	U	1	0.031	0.052	mg/Kg	11/07/25 20:18	PB170450
67-72-1	Hexachloroethane	0.012	U	1	0.012	0.11	mg/Kg	11/07/25 20:18	PB170450
98-95-3	Nitrobenzene	0.012	U	1	0.012	0.11	mg/Kg	11/07/25 20:18	PB170450
78-59-1	Isophorone	0.021	U	1	0.021	0.11	mg/Kg	11/07/25 20:18	PB170450
88-75-5	2-Nitrophenol	0.038	U	1	0.038	0.11	mg/Kg	11/07/25 20:18	PB170450
105-67-9	2,4-Dimethylphenol	0.042	U	1	0.042	0.11	mg/Kg	11/07/25 20:18	PB170450
111-91-1	bis(2-Chloroethoxy)methane	0.020	U	1	0.020	0.11	mg/Kg	11/07/25 20:18	PB170450
120-83-2	2,4-Dichlorophenol	0.018	U	1	0.018	0.11	mg/Kg	11/07/25 20:18	PB170450
91-20-3	Naphthalene	0.015	U	1	0.015	0.11	mg/Kg	11/07/25 20:18	PB170450
106-47-8	4-Chloroaniline	0.023	U	1	0.023	0.11	mg/Kg	11/07/25 20:18	PB170450
87-68-3	Hexachlorobutadiene	0.017	U	1	0.017	0.11	mg/Kg	11/07/25 20:18	PB170450
105-60-2	Caprolactam	0.034	U	1	0.034	0.21	mg/Kg	11/07/25 20:18	PB170450
59-50-7	4-Chloro-3-methylphenol	0.019	U	1	0.019	0.11	mg/Kg	11/07/25 20:18	PB170450
91-57-6	2-Methylnaphthalene	0.017	U	1	0.017	0.11	mg/Kg	11/07/25 20:18	PB170450
77-47-4	Hexachlorocyclopentadiene	0.076	U	1	0.076	0.21	mg/Kg	11/07/25 20:18	PB170450
88-06-2	2,4,6-Trichlorophenol	0.013	U	1	0.013	0.11	mg/Kg	11/07/25 20:18	PB170450
95-95-4	2,4,5-Trichlorophenol	0.019	U	1	0.019	0.11	mg/Kg	11/07/25 20:18	PB170450
92-52-4	1,1-Biphenyl	0.014	U	1	0.014	0.11	mg/Kg	11/07/25 20:18	PB170450
91-58-7	2-Chloronaphthalene	0.015	U	1	0.015	0.11	mg/Kg	11/07/25 20:18	PB170450
88-74-4	2-Nitroaniline	0.031	U	1	0.031	0.11	mg/Kg	11/07/25 20:18	PB170450
131-11-3	Dimethylphthalate	0.018	U	1	0.018	0.11	mg/Kg	11/07/25 20:18	PB170450
208-96-8	Acenaphthylene	0.019	U	1	0.019	0.11	mg/Kg	11/07/25 20:18	PB170450
606-20-2	2,6-Dinitrotoluene	0.022	U	1	0.022	0.11	mg/Kg	11/07/25 20:18	PB170450
99-09-2	3-Nitroaniline	0.030	U	1	0.030	0.11	mg/Kg	11/07/25 20:18	PB170450
83-32-9	Acenaphthene	0.014	U	1	0.014	0.11	mg/Kg	11/07/25 20:18	PB170450
51-28-5	2,4-Dinitrophenol	0.15	U	1	0.15	0.21	mg/Kg	11/07/25 20:18	PB170450
100-02-7	4-Nitrophenol	0.070	U	1	0.070	0.21	mg/Kg	11/07/25 20:18	PB170450
132-64-9	Dibenzofuran	0.015	U	1	0.015	0.11	mg/Kg	11/07/25 20:18	PB170450
121-14-2	2,4-Dinitrotoluene	0.033	U	1	0.033	0.11	mg/Kg	11/07/25 20:18	PB170450
84-66-2	Diethylphthalate	0.018	U	1	0.018	0.11	mg/Kg	11/07/25 20:18	PB170450
7005-72-3	4-Chlorophenyl-phenylether	0.017	U	1	0.017	0.11	mg/Kg	11/07/25 20:18	PB170450
86-73-7	Fluorene	0.017	U	1	0.017	0.11	mg/Kg	11/07/25 20:18	PB170450
100-01-6	4-Nitroaniline	0.042	U	1	0.042	0.11	mg/Kg	11/07/25 20:18	PB170450
534-52-1	4,6-Dinitro-2-methylphenol	0.067	U	1	0.067	0.21	mg/Kg	11/07/25 20:18	PB170450

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SDG No.: Q3562
Matrix: SOIL
% Solid: 92.1
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	0.021	U	1	0.021	0.11	mg/Kg	11/07/25 20:18	PB170450
101-55-3	4-Bromophenyl-phenylether	0.018	U	1	0.018	0.11	mg/Kg	11/07/25 20:18	PB170450
118-74-1	Hexachlorobenzene	0.017	U	1	0.017	0.11	mg/Kg	11/07/25 20:18	PB170450
1912-24-9	Atrazine	0.022	U	1	0.022	0.11	mg/Kg	11/07/25 20:18	PB170450
87-86-5	Pentachlorophenol	0.033	U	1	0.033	0.21	mg/Kg	11/07/25 20:18	PB170450
85-01-8	Phenanthrene	0.090	J	1	0.014	0.11	mg/Kg	11/07/25 20:18	PB170450
120-12-7	Anthracene	0.022	U	1	0.022	0.11	mg/Kg	11/07/25 20:18	PB170450
86-74-8	Carbazole	0.020	U	1	0.020	0.11	mg/Kg	11/07/25 20:18	PB170450
84-74-2	Di-n-butylphthalate	0.031	U	1	0.031	0.11	mg/Kg	11/07/25 20:18	PB170450
206-44-0	Fluoranthene	0.28		1	0.020	0.11	mg/Kg	11/07/25 20:18	PB170450
129-00-0	Pyrene	0.22		1	0.023	0.11	mg/Kg	11/07/25 20:18	PB170450
85-68-7	Butylbenzylphthalate	0.047	U	1	0.047	0.11	mg/Kg	11/07/25 20:18	PB170450
91-94-1	3,3-Dichlorobenzidine	0.024	U	1	0.024	0.21	mg/Kg	11/07/25 20:18	PB170450
56-55-3	Benzo(a)anthracene	0.16		1	0.015	0.11	mg/Kg	11/07/25 20:18	PB170450
218-01-9	Chrysene	0.17		1	0.013	0.11	mg/Kg	11/07/25 20:18	PB170450
117-81-7	Bis(2-ethylhexyl)phthalate	0.039	U	1	0.039	0.11	mg/Kg	11/07/25 20:18	PB170450
117-84-0	Di-n-octyl phthalate	0.057	U	1	0.057	0.21	mg/Kg	11/07/25 20:18	PB170450
205-99-2	Benzo(b)fluoranthene	0.22		1	0.012	0.11	mg/Kg	11/07/25 20:18	PB170450
207-08-9	Benzo(k)fluoranthene	0.074	J	1	0.015	0.11	mg/Kg	11/07/25 20:18	PB170450
50-32-8	Benzo(a)pyrene	0.17		1	0.019	0.11	mg/Kg	11/07/25 20:18	PB170450
193-39-5	Indeno(1,2,3-cd)pyrene	0.100	J	1	0.019	0.11	mg/Kg	11/07/25 20:18	PB170450
53-70-3	Dibenzo(a,h)anthracene	0.018	U	1	0.018	0.11	mg/Kg	11/07/25 20:18	PB170450
191-24-2	Benzo(g,h,i)perylene	0.12		1	0.017	0.11	mg/Kg	11/07/25 20:18	PB170450
95-94-3	1,2,4,5-Tetrachlorobenzene	0.017	U	1	0.017	0.11	mg/Kg	11/07/25 20:18	PB170450
123-91-1	1,4-Dioxane	0.029	U	1	0.029	0.11	mg/Kg	11/07/25 20:18	PB170450
58-90-2	2,3,4,6-Tetrachlorophenol	0.018	U	1	0.018	0.11	mg/Kg	11/07/25 20:18	PB170450

SURROGATES

367-12-4	2-Fluorophenol	53.0		18 - 112	35%	SPK: 150
13127-88-3	Phenol-d6	51.9		15 - 107	35%	SPK: 150
4165-60-0	Nitrobenzene-d5	40.5		18 - 107	41%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.6		20 - 109	37%	SPK: 100
118-79-6	2,4,6-Tribromophenol	65.9		10 - 116	44%	SPK: 150
1718-51-0	Terphenyl-d14	35.1		10 - 105	35%	SPK: 100

INTERNAL STANDARDS

	Area Count
3855-82-1 1,4-Dichlorobenzene-d4	40700
1146-65-2 Naphthalene-d8	160000
15067-26-2 Acenaphthene-d10	124000
1517-22-2 Phenanthrene-d10	285000
1719-03-5 Chrysene-d12	341000
1520-96-3 Perylene-d12	383000

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	65.3	J	16.2	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J	18.4	ug/Kg

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Lab Sample ID:	Q3562-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.1
	Level: LOW	Test:	SVOC-TCL BNA -20
Sample Wt/Vol:	50.02 g		
	Final Vol: 1000 uL		
Prep Method :	SW3541		
	Prep Date: 11/07/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
003674-66-6	Phenanthrene, 2,5-dimethyl-	65.6	J			19.3	ug/Kg		
074685-30-6	5-Eicosene, (E)-	47.8	J			21.5	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