

Report of Analysis

Client: PSEG
Project: Oradell Gas and Appliance Service (OR)
Client Sample ID: OR-03-11-24-2025
Lab Sample ID: Q3714-01
Analytical Method: 8270E Level: LOW
Sample Wt/Vol: 30.08 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 11/25/25

Date Collected: 11/24/25
Date Received: 11/24/25
SDG No.: Q3714
Matrix: SOIL
% Solid: 98.5
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	0.79	U	5	0.79	1.70	mg/Kg	11/26/25 22:43	PB170735
108-95-2	Phenol	0.11	U	5	0.11	0.86	mg/Kg	11/26/25 22:43	PB170735
111-44-4	bis(2-Chloroethyl)ether	0.12	U	5	0.12	0.86	mg/Kg	11/26/25 22:43	PB170735
95-57-8	2-Chlorophenol	0.12	U	5	0.12	0.86	mg/Kg	11/26/25 22:43	PB170735
95-48-7	2-Methylphenol	0.15	U	5	0.15	0.86	mg/Kg	11/26/25 22:43	PB170735
108-60-1	2,2-oxybis(1-Chloropropane)	0.19	U	5	0.19	0.86	mg/Kg	11/26/25 22:43	PB170735
98-86-2	Acetophenone	0.15	U	5	0.15	0.86	mg/Kg	11/26/25 22:43	PB170735
65794-96-9	3+4-Methylphenols	0.21	U	5	0.21	1.70	mg/Kg	11/26/25 22:43	PB170735
621-64-7	n-Nitroso-di-n-propylamine	0.24	U	5	0.24	0.41	mg/Kg	11/26/25 22:43	PB170735
67-72-1	Hexachloroethane	0.089	U	5	0.089	0.86	mg/Kg	11/26/25 22:43	PB170735
98-95-3	Nitrobenzene	0.093	U	5	0.093	0.86	mg/Kg	11/26/25 22:43	PB170735
78-59-1	Isophorone	0.17	U	5	0.17	0.86	mg/Kg	11/26/25 22:43	PB170735
88-75-5	2-Nitrophenol	0.29	U	5	0.29	0.86	mg/Kg	11/26/25 22:43	PB170735
105-67-9	2,4-Dimethylphenol	0.33	U	5	0.33	0.86	mg/Kg	11/26/25 22:43	PB170735
111-91-1	bis(2-Chloroethoxy)methane	0.16	U	5	0.16	0.86	mg/Kg	11/26/25 22:43	PB170735
120-83-2	2,4-Dichlorophenol	0.14	U	5	0.14	0.86	mg/Kg	11/26/25 22:43	PB170735
91-20-3	Naphthalene	0.11	U	5	0.11	0.86	mg/Kg	11/26/25 22:43	PB170735
106-47-8	4-Chloroaniline	0.18	U	5	0.18	0.86	mg/Kg	11/26/25 22:43	PB170735
87-68-3	Hexachlorobutadiene	0.13	U	5	0.13	0.86	mg/Kg	11/26/25 22:43	PB170735
105-60-2	Caprolactam	0.26	U	5	0.26	1.70	mg/Kg	11/26/25 22:43	PB170735
59-50-7	4-Chloro-3-methylphenol	0.15	U	5	0.15	0.86	mg/Kg	11/26/25 22:43	PB170735
91-57-6	2-Methylnaphthalene	0.13	U	5	0.13	0.86	mg/Kg	11/26/25 22:43	PB170735
77-47-4	Hexachlorocyclopentadiene	0.59	U	5	0.59	1.70	mg/Kg	11/26/25 22:43	PB170735
88-06-2	2,4,6-Trichlorophenol	0.10	U	5	0.10	0.86	mg/Kg	11/26/25 22:43	PB170735
95-95-4	2,4,5-Trichlorophenol	0.15	U	5	0.15	0.86	mg/Kg	11/26/25 22:43	PB170735
92-52-4	1,1-Biphenyl	0.11	U	5	0.11	0.86	mg/Kg	11/26/25 22:43	PB170735
91-58-7	2-Chloronaphthalene	0.11	U	5	0.11	0.86	mg/Kg	11/26/25 22:43	PB170735
88-74-4	2-Nitroaniline	0.24	U	5	0.24	0.86	mg/Kg	11/26/25 22:43	PB170735
131-11-3	Dimethylphthalate	0.14	U	5	0.14	0.86	mg/Kg	11/26/25 22:43	PB170735
208-96-8	Acenaphthylene	0.15	U	5	0.15	0.86	mg/Kg	11/26/25 22:43	PB170735
606-20-2	2,6-Dinitrotoluene	0.17	U	5	0.17	0.86	mg/Kg	11/26/25 22:43	PB170735
99-09-2	3-Nitroaniline	0.23	U	5	0.23	0.86	mg/Kg	11/26/25 22:43	PB170735
83-32-9	Acenaphthene	0.11	U	5	0.11	0.86	mg/Kg	11/26/25 22:43	PB170735
51-28-5	2,4-Dinitrophenol	1.20	U	5	1.20	1.70	mg/Kg	11/26/25 22:43	PB170735
100-02-7	4-Nitrophenol	0.54	U	5	0.54	1.70	mg/Kg	11/26/25 22:43	PB170735
132-64-9	Dibenzofuran	0.11	U	5	0.11	0.86	mg/Kg	11/26/25 22:43	PB170735
121-14-2	2,4-Dinitrotoluene	0.25	U	5	0.25	0.86	mg/Kg	11/26/25 22:43	PB170735
84-66-2	Diethylphthalate	0.14	U	5	0.14	0.86	mg/Kg	11/26/25 22:43	PB170735
7005-72-3	4-Chlorophenyl-phenylether	0.14	U	5	0.14	0.86	mg/Kg	11/26/25 22:43	PB170735
86-73-7	Fluorene	0.13	U	5	0.13	0.86	mg/Kg	11/26/25 22:43	PB170735
100-01-6	4-Nitroaniline	0.33	U	5	0.33	0.86	mg/Kg	11/26/25 22:43	PB170735
534-52-1	4,6-Dinitro-2-methylphenol	0.52	U	5	0.52	1.70	mg/Kg	11/26/25 22:43	PB170735

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SDG No.: Q3714
Matrix: SOIL
% Solid: 98.5
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	0.17	U	5	0.17	0.86	mg/Kg	11/26/25 22:43	PB170735
101-55-3	4-Bromophenyl-phenylether	0.14	U	5	0.14	0.86	mg/Kg	11/26/25 22:43	PB170735
118-74-1	Hexachlorobenzene	0.13	U	5	0.13	0.86	mg/Kg	11/26/25 22:43	PB170735
1912-24-9	Atrazine	0.17	U	5	0.17	0.86	mg/Kg	11/26/25 22:43	PB170735
87-86-5	Pentachlorophenol	0.26	U	5	0.26	1.70	mg/Kg	11/26/25 22:43	PB170735
85-01-8	Phenanthrene	2.10		5	0.11	0.86	mg/Kg	11/26/25 22:43	PB170735
120-12-7	Anthracene	0.56	J	5	0.17	0.86	mg/Kg	11/26/25 22:43	PB170735
86-74-8	Carbazole	0.16	U	5	0.16	0.86	mg/Kg	11/26/25 22:43	PB170735
84-74-2	Di-n-butylphthalate	0.24	U	5	0.24	0.86	mg/Kg	11/26/25 22:43	PB170735
206-44-0	Fluoranthene	4.20		5	0.15	0.86	mg/Kg	11/26/25 22:43	PB170735
129-00-0	Pyrene	2.40		5	0.18	0.86	mg/Kg	11/26/25 22:43	PB170735
85-68-7	Butylbenzylphthalate	0.36	U	5	0.36	0.86	mg/Kg	11/26/25 22:43	PB170735
91-94-1	3,3-Dichlorobenzidine	0.19	U	5	0.19	1.70	mg/Kg	11/26/25 22:43	PB170735
56-55-3	Benzo(a)anthracene	1.70		5	0.12	0.86	mg/Kg	11/26/25 22:43	PB170735
218-01-9	Chrysene	1.40		5	0.10	0.86	mg/Kg	11/26/25 22:43	PB170735
117-81-7	Bis(2-ethylhexyl)phthalate	0.30	U	5	0.30	0.86	mg/Kg	11/26/25 22:43	PB170735
117-84-0	Di-n-octyl phthalate	0.44	U	5	0.44	1.70	mg/Kg	11/26/25 22:43	PB170735
205-99-2	Benzo(b)fluoranthene	2.30		5	0.096	0.86	mg/Kg	11/26/25 22:43	PB170735
207-08-9	Benzo(k)fluoranthene	0.38	J	5	0.11	0.86	mg/Kg	11/26/25 22:43	PB170735
50-32-8	Benzo(a)pyrene	1.50		5	0.15	0.86	mg/Kg	11/26/25 22:43	PB170735
193-39-5	Indeno(1,2,3-cd)pyrene	0.54	J	5	0.15	0.86	mg/Kg	11/26/25 22:43	PB170735
53-70-3	Dibenzo(a,h)anthracene	0.14	U	5	0.14	0.86	mg/Kg	11/26/25 22:43	PB170735
191-24-2	Benzo(g,h,i)perylene	0.70	J	5	0.13	0.86	mg/Kg	11/26/25 22:43	PB170735
95-94-3	1,2,4,5-Tetrachlorobenzene	0.13	U	5	0.13	0.86	mg/Kg	11/26/25 22:43	PB170735
123-91-1	1,4-Dioxane	0.23	U	5	0.23	0.86	mg/Kg	11/26/25 22:43	PB170735
58-90-2	2,3,4,6-Tetrachlorophenol	0.14	U	5	0.14	0.86	mg/Kg	11/26/25 22:43	PB170735

SURROGATES

367-12-4	2-Fluorophenol	78.5		10 - 105	52%	SPK: 150
13127-88-3	Phenol-d6	76.4		10 - 103	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	49.9		10 - 108	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.0		10 - 108	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	61.6		10 - 116	41%	SPK: 150
1718-51-0	Terphenyl-d14	42.3		10 - 109	42%	SPK: 100

INTERNAL STANDARDS

	Area Count
3855-82-1 1,4-Dichlorobenzene-d4	65800
1146-65-2 Naphthalene-d8	230000
15067-26-2 Acenaphthene-d10	109000
1517-22-2 Phenanthrene-d10	180000
1719-03-5 Chrysene-d12	191000
1520-96-3 Perylene-d12	159000

TENTATIVE IDENTIFIED COMPOUNDS

002531-84-2	Phenanthrene, 2-methyl-	1000	J	11.9	ug/Kg
000483-87-4	Phenanthrene, 1,7-dimethyl-	410	J	12.4	ug/Kg

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Sample Wt/Vol:	30.08 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541		
	Level: LOW		
	Final Vol: 1000 uL		
	Prep Date: 11/25/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
002381-21-7	Pyrene, 1-methyl-	420	J			13.2	ug/Kg		
000629-92-5	Nonadecane	350	J			14.2	ug/Kg		
000638-67-5	Tricosane	370	J			14.5	ug/Kg		
000630-01-3	Hexacosane	360	J			14.8	ug/Kg		
000192-97-2	Benzo[e]pyrene	710	J			15.4	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