

Report of Analysis

Client: PSEG
Project: Plainfield Gas and Appliance Service (PL)
Client Sample ID: PL-01-12102025
Lab Sample ID: Q3831-01
Analytical Method: 8270E Level: LOW
Sample Wt/Vol: 50.03 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 12/11/25

Date Collected: 12/10/25
Date Received: 12/10/25
SDG No.: Q3831
Matrix: SOIL
% Solid: 91.4
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	0.22	mg/Kg	12/11/25 22:03	PB170902
108-95-2	Phenol	0.015	U	1	0.015	0.11	mg/Kg	12/11/25 22:03	PB170902
111-44-4	bis(2-Chloroethyl)ether	0.016	U	1	0.016	0.11	mg/Kg	12/11/25 22:03	PB170902
95-57-8	2-Chlorophenol	0.016	U	1	0.016	0.11	mg/Kg	12/11/25 22:03	PB170902
95-48-7	2-Methylphenol	0.020	U	1	0.020	0.11	mg/Kg	12/11/25 22:03	PB170902
108-60-1	2,2-oxybis(1-Chloropropane)	0.025	U	1	0.025	0.11	mg/Kg	12/11/25 22:03	PB170902
98-86-2	Acetophenone	0.019	U	1	0.019	0.11	mg/Kg	12/11/25 22:03	PB170902
65794-96-9	3+4-Methylphenols	0.027	U	1	0.027	0.22	mg/Kg	12/11/25 22:03	PB170902
621-64-7	n-Nitroso-di-n-propylamine	0.031	U	1	0.031	0.053	mg/Kg	12/11/25 22:03	PB170902
67-72-1	Hexachloroethane	0.012	U	1	0.012	0.11	mg/Kg	12/11/25 22:03	PB170902
98-95-3	Nitrobenzene	0.012	U	1	0.012	0.11	mg/Kg	12/11/25 22:03	PB170902
78-59-1	Isophorone	0.022	U	1	0.022	0.11	mg/Kg	12/11/25 22:03	PB170902
88-75-5	2-Nitrophenol	0.038	U	1	0.038	0.11	mg/Kg	12/11/25 22:03	PB170902
105-67-9	2,4-Dimethylphenol	0.043	U	1	0.043	0.11	mg/Kg	12/11/25 22:03	PB170902
111-91-1	bis(2-Chloroethoxy)methane	0.020	U	1	0.020	0.11	mg/Kg	12/11/25 22:03	PB170902
120-83-2	2,4-Dichlorophenol	0.019	U	1	0.019	0.11	mg/Kg	12/11/25 22:03	PB170902
91-20-3	Naphthalene	0.073	J	1	0.015	0.11	mg/Kg	12/11/25 22:03	PB170902
106-47-8	4-Chloroaniline	0.023	U	1	0.023	0.11	mg/Kg	12/11/25 22:03	PB170902
87-68-3	Hexachlorobutadiene	0.017	U	1	0.017	0.11	mg/Kg	12/11/25 22:03	PB170902
105-60-2	Caprolactam	0.034	U	1	0.034	0.22	mg/Kg	12/11/25 22:03	PB170902
59-50-7	4-Chloro-3-methylphenol	0.019	U	1	0.019	0.11	mg/Kg	12/11/25 22:03	PB170902
91-57-6	2-Methylnaphthalene	0.071	J	1	0.017	0.11	mg/Kg	12/11/25 22:03	PB170902
77-47-4	Hexachlorocyclopentadiene	0.076	U	1	0.076	0.22	mg/Kg	12/11/25 22:03	PB170902
88-06-2	2,4,6-Trichlorophenol	0.013	U	1	0.013	0.11	mg/Kg	12/11/25 22:03	PB170902
95-95-4	2,4,5-Trichlorophenol	0.019	U	1	0.019	0.11	mg/Kg	12/11/25 22:03	PB170902
92-52-4	1,1-Biphenyl	0.014	U	1	0.014	0.11	mg/Kg	12/11/25 22:03	PB170902
91-58-7	2-Chloronaphthalene	0.015	U	1	0.015	0.11	mg/Kg	12/11/25 22:03	PB170902
88-74-4	2-Nitroaniline	0.032	U	1	0.032	0.11	mg/Kg	12/11/25 22:03	PB170902
131-11-3	Dimethylphthalate	0.018	U	1	0.018	0.11	mg/Kg	12/11/25 22:03	PB170902
208-96-8	Acenaphthylene	0.12		1	0.019	0.11	mg/Kg	12/11/25 22:03	PB170902
606-20-2	2,6-Dinitrotoluene	0.022	U	1	0.022	0.11	mg/Kg	12/11/25 22:03	PB170902
99-09-2	3-Nitroaniline	0.030	U	1	0.030	0.11	mg/Kg	12/11/25 22:03	PB170902
83-32-9	Acenaphthene	0.073	J	1	0.014	0.11	mg/Kg	12/11/25 22:03	PB170902
51-28-5	2,4-Dinitrophenol	0.15	U	1	0.15	0.22	mg/Kg	12/11/25 22:03	PB170902
100-02-7	4-Nitrophenol	0.070	U	1	0.070	0.22	mg/Kg	12/11/25 22:03	PB170902
132-64-9	Dibenzofuran	0.058	J	1	0.015	0.11	mg/Kg	12/11/25 22:03	PB170902
121-14-2	2,4-Dinitrotoluene	0.033	U	1	0.033	0.11	mg/Kg	12/11/25 22:03	PB170902
84-66-2	Diethylphthalate	0.019	U	1	0.019	0.11	mg/Kg	12/11/25 22:03	PB170902
7005-72-3	4-Chlorophenyl-phenylether	0.018	U	1	0.018	0.11	mg/Kg	12/11/25 22:03	PB170902
86-73-7	Fluorene	0.13		1	0.017	0.11	mg/Kg	12/11/25 22:03	PB170902
100-01-6	4-Nitroaniline	0.042	U	1	0.042	0.11	mg/Kg	12/11/25 22:03	PB170902
534-52-1	4,6-Dinitro-2-methylphenol	0.068	U	1	0.068	0.22	mg/Kg	12/11/25 22:03	PB170902

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Prep Method : SW3541 Prep Date: 12/11/25

Date Collected: 12/10/25
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SDG No.: Q3831
Matrix: SOIL
% Solid: 91.4
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	0.022	U	1	0.022	0.11	mg/Kg	12/11/25 22:03	PB170902
101-55-3	4-Bromophenyl-phenylether	0.018	U	1	0.018	0.11	mg/Kg	12/11/25 22:03	PB170902
118-74-1	Hexachlorobenzene	0.017	U	1	0.017	0.11	mg/Kg	12/11/25 22:03	PB170902
1912-24-9	Atrazine	0.022	U	1	0.022	0.11	mg/Kg	12/11/25 22:03	PB170902
87-86-5	Pentachlorophenol	0.034	U	1	0.034	0.22	mg/Kg	12/11/25 22:03	PB170902
85-01-8	Phenanthrene	0.61		1	0.014	0.11	mg/Kg	12/11/25 22:03	PB170902
120-12-7	Anthracene	0.19		1	0.022	0.11	mg/Kg	12/11/25 22:03	PB170902
86-74-8	Carbazole	0.045	J	1	0.021	0.11	mg/Kg	12/11/25 22:03	PB170902
84-74-2	Di-n-butylphthalate	0.031	U	1	0.031	0.11	mg/Kg	12/11/25 22:03	PB170902
206-44-0	Fluoranthene	0.83		1	0.020	0.11	mg/Kg	12/11/25 22:03	PB170902
129-00-0	Pyrene	0.74		1	0.024	0.11	mg/Kg	12/11/25 22:03	PB170902
85-68-7	Butylbenzylphthalate	0.047	U	1	0.047	0.11	mg/Kg	12/11/25 22:03	PB170902
91-94-1	3,3-Dichlorobenzidine	0.024	U	1	0.024	0.22	mg/Kg	12/11/25 22:03	PB170902
56-55-3	Benzo(a)anthracene	0.39		1	0.015	0.11	mg/Kg	12/11/25 22:03	PB170902
218-01-9	Chrysene	0.40		1	0.013	0.11	mg/Kg	12/11/25 22:03	PB170902
117-81-7	Bis(2-ethylhexyl)phthalate	0.039	U	1	0.039	0.11	mg/Kg	12/11/25 22:03	PB170902
117-84-0	Di-n-octyl phthalate	0.057	U	1	0.057	0.22	mg/Kg	12/11/25 22:03	PB170902
205-99-2	Benzo(b)fluoranthene	0.50		1	0.013	0.11	mg/Kg	12/11/25 22:03	PB170902
207-08-9	Benzo(k)fluoranthene	0.16		1	0.015	0.11	mg/Kg	12/11/25 22:03	PB170902
50-32-8	Benzo(a)pyrene	0.40		1	0.019	0.11	mg/Kg	12/11/25 22:03	PB170902
193-39-5	Indeno(1,2,3-cd)pyrene	0.21		1	0.019	0.11	mg/Kg	12/11/25 22:03	PB170902
53-70-3	Dibenzo(a,h)anthracene	0.066	J	1	0.018	0.11	mg/Kg	12/11/25 22:03	PB170902
191-24-2	Benzo(g,h,i)perylene	0.27		1	0.017	0.11	mg/Kg	12/11/25 22:03	PB170902
95-94-3	1,2,4,5-Tetrachlorobenzene	0.017	U	1	0.017	0.11	mg/Kg	12/11/25 22:03	PB170902
123-91-1	1,4-Dioxane	0.030	U	1	0.030	0.11	mg/Kg	12/11/25 22:03	PB170902
58-90-2	2,3,4,6-Tetrachlorophenol	0.018	U	1	0.018	0.11	mg/Kg	12/11/25 22:03	PB170902

SURROGATES

367-12-4	2-Fluorophenol	62.3		10 - 105	42%	SPK: 150
13127-88-3	Phenol-d6	59.6		10 - 103	40%	SPK: 150
4165-60-0	Nitrobenzene-d5	41.9		10 - 108	42%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.0		10 - 108	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.8		10 - 116	47%	SPK: 150
1718-51-0	Terphenyl-d14	41.0		10 - 109	41%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	238000
1146-65-2	Naphthalene-d8	900000
15067-26-2	Acenaphthene-d10	558000
1517-22-2	Phenanthrene-d10	1120000
1719-03-5	Chrysene-d12	1290000
1520-96-3	Perylene-d12	1500000

TENTATIVE IDENTIFIED COMPOUNDS

90-12-0	1-Methylnaphthalene	67.6	J	12.3	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	57.3	J	13.5	ug/Kg

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Lab Sample ID:	Q3831-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
Sample Wt/Vol:	50.03 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541		
	Level: LOW		
	Final Vol: 1000 uL		
	Prep Date: 12/11/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
000575-43-9	Naphthalene, 1,6-dimethyl-	63.2	J			13.6	ug/Kg		
000119-61-9	Benzophenone	150	J			15.7	ug/Kg		
001730-37-6	9H-Fluorene, 1-methyl-	54.0	J			16.4	ug/Kg		
000233-02-3	Naphtho[2,1-b]thiophene	60.8	J			16.9	ug/Kg		
002531-84-2	Phenanthrene, 2-methyl-	120	J			18.0	ug/Kg		
000613-12-7	Anthracene, 2-methyl-	280	J			18.0	ug/Kg		
000832-69-9	Phenanthrene, 1-methyl-	71.7	J			18.1	ug/Kg		
000203-64-5	4H-Cyclopenta[def]phenanthrene	260	J			18.2	ug/Kg		
000610-48-0	Anthracene, 1-methyl-	90.5	J			18.2	ug/Kg		
000612-94-2	Naphthalene, 2-phenyl-	49.0	J			18.5	ug/Kg		
002789-88-0	di-p-Tolylacetylene	48.1	J			18.8	ug/Kg		
003674-66-6	Phenanthrene, 2,5-dimethyl-	120	J			19.0	ug/Kg		
086544-79-8	1,3-Diphenyl-3-methylcyclopropene	79.8	J			19.1	ug/Kg		
002381-21-7	Pyrene, 1-methyl-	49.0	J			19.9	ug/Kg		
000243-17-4	11H-Benzo[b]fluorene	75.4	J			20.1	ug/Kg		
000238-84-6	11H-Benzo[a]fluorene	52.3	J			20.2	ug/Kg		
000192-97-2	Benzo[e]pyrene	370	J			24.5	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