

Report of Analysis

Client:	PSEG	Date Collected:	03/25/25
Project:	Orange Gas and Appliance Service MA00006789	Date Received:	03/25/25
Client Sample ID:	EO-02-032525	SDG No.:	Q1637
Lab Sample ID:	Q1637-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	50.03	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
BF142113.D	5	03/26/25 08:50	03/26/25 23:05	PB167321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.52	U	0.52	1.10	mg/Kg
108-95-2	Phenol	0.074	U	0.074	0.57	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.081	U	0.081	0.57	mg/Kg
95-57-8	2-Chlorophenol	0.081	U	0.081	0.57	mg/Kg
95-48-7	2-Methylphenol	0.100	U	0.100	0.57	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.12	U	0.12	0.57	mg/Kg
98-86-2	Acetophenone	0.53	J	0.098	0.57	mg/Kg
65794-96-9	3+4-Methylphenols	0.14	U	0.14	1.10	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.16	U	0.16	0.27	mg/Kg
67-72-1	Hexachloroethane	0.059	U	0.059	0.57	mg/Kg
98-95-3	Nitrobenzene	0.061	U	0.061	0.57	mg/Kg
78-59-1	Isophorone	0.11	U	0.11	0.57	mg/Kg
88-75-5	2-Nitrophenol	0.19	U	0.19	0.57	mg/Kg
105-67-9	2,4-Dimethylphenol	0.22	U	0.22	0.57	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.10	U	0.10	0.57	mg/Kg
120-83-2	2,4-Dichlorophenol	0.094	U	0.094	0.57	mg/Kg
91-20-3	Naphthalene	0.86		0.076	0.57	mg/Kg
106-47-8	4-Chloroaniline	0.12	U	0.12	0.57	mg/Kg
87-68-3	Hexachlorobutadiene	0.084	U	0.084	0.57	mg/Kg
105-60-2	Caprolactam	0.17	U	0.17	1.10	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.096	U	0.096	0.57	mg/Kg
91-57-6	2-Methylnaphthalene	0.29	J	0.085	0.57	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.39	U	0.39	1.10	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.066	U	0.066	0.57	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.097	U	0.097	0.57	mg/Kg
92-52-4	1,1-Biphenyl	0.073	U	0.073	0.57	mg/Kg
91-58-7	2-Chloronaphthalene	0.075	U	0.075	0.57	mg/Kg
88-74-4	2-Nitroaniline	0.16	U	0.16	0.57	mg/Kg
131-11-3	Dimethylphthalate	0.090	U	0.090	0.57	mg/Kg

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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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208-96-8	Acenaphthylene	0.096	U	0.096	0.57	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.11	U	0.11	0.57	mg/Kg
99-09-2	3-Nitroaniline	0.15	U	0.15	0.57	mg/Kg
83-32-9	Acenaphthene	0.50	J	0.071	0.57	mg/Kg
51-28-5	2,4-Dinitrophenol	0.76	U	0.76	1.10	mg/Kg
100-02-7	4-Nitrophenol	0.36	U	0.36	1.10	mg/Kg
132-64-9	Dibenzofuran	0.47	J	0.076	0.57	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.17	U	0.17	0.57	mg/Kg
84-66-2	Diethylphthalate	0.094	U	0.094	0.57	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.089	U	0.089	0.57	mg/Kg
86-73-7	Fluorene	0.72		0.084	0.57	mg/Kg
100-01-6	4-Nitroaniline	0.21	U	0.21	0.57	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.34	U	0.34	1.10	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.11	U	0.11	0.57	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.093	U	0.093	0.57	mg/Kg
118-74-1	Hexachlorobenzene	0.084	U	0.084	0.57	mg/Kg
1912-24-9	Atrazine	0.11	U	0.11	0.57	mg/Kg
87-86-5	Pentachlorophenol	0.17	U	0.17	1.10	mg/Kg
85-01-8	Phenanthrene	3.70		0.070	0.57	mg/Kg
120-12-7	Anthracene	1.00		0.11	0.57	mg/Kg
86-74-8	Carbazole	0.40	J	0.10	0.57	mg/Kg
84-74-2	Di-n-butylphthalate	0.16	U	0.16	0.57	mg/Kg
206-44-0	Fluoranthene	4.30		0.100	0.57	mg/Kg
129-00-0	Pyrene	3.00		0.12	0.57	mg/Kg
85-68-7	Butylbenzylphthalate	0.24	U	0.24	0.57	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.12	U	0.12	1.10	mg/Kg
56-55-3	Benzo(a)anthracene	1.80		0.077	0.57	mg/Kg
218-01-9	Chrysene	1.60		0.066	0.57	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.20	U	0.20	0.57	mg/Kg
117-84-0	Di-n-octyl phthalate	0.29	U	0.29	1.10	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.80		0.063	0.57	mg/Kg

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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
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207-08-9	Benzo(k)fluoranthene	0.85		0.075	0.57	mg/Kg
50-32-8	Benzo(a)pyrene	1.70		0.098	0.57	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.74		0.097	0.57	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.23	J	0.091	0.57	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.86		0.086	0.57	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.085	U	0.085	0.57	mg/Kg
123-91-1	1,4-Dioxane	0.15	U	0.15	0.57	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.091	U	0.091	0.57	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	93.8		18 - 112	63%	SPK: 150
13127-88-3	Phenol-d6	90.5		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.0		18 - 107	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.7		20 - 109	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	85.6		10 - 116	57%	SPK: 150
1718-51-0	Terphenyl-d14	60.4		10 - 105	60%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	112000	6.869
1146-65-2	Naphthalene-d8	407000	8.151
15067-26-2	Acenaphthene-d10	207000	9.91
1517-22-2	Phenanthrene-d10	346000	11.392
1719-03-5	Chrysene-d12	274000	14.033
1520-96-3	Perylene-d12	220000	15.51

TENTATIVE IDENTIFIED COMPOUNDS

000124-18-5	Decane	1100	J	6.70	ug/Kg
071186-27-1	1-Ethyl-2,2,6-trimethylcyclohexane	710	J	7.15	ug/Kg
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	490	J	7.19	ug/Kg
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	460	J	7.66	ug/Kg
017312-82-2	Undecane, 4,6-dimethyl-	490	J	8.57	ug/Kg
000629-50-5	Tridecane	920	J	8.74	ug/Kg
90-12-0	1-Methylnaphthalene	240	J	8.96	ug/Kg

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	unknown9.104	650	J		9.10	ug/Kg
031295-56-4	Dodecane, 2,6,11-trimethyl-	1400	J		9.17	ug/Kg
000629-59-4	Tetradecane	3300	J		9.31	ug/Kg
001076-61-5	Naphthalene, 1,2,3,4-tetrahydro-6,	500	J		9.38	ug/Kg
1000382-54-3	Carbonic acid, eicosyl vinyl ester	1400	J		9.63	ug/Kg
000544-76-3	Hexadecane	2400	J		9.83	ug/Kg
Total PAH	Total PAH	23700	J		9.94	ug/Kg
000629-94-7	Heneicosane	1500	J		10.3	ug/Kg
003892-00-0	Pentadecane, 2,6,10-trimethyl-	650	J		10.6	ug/Kg
000629-78-7	Heptadecane	1600	J		10.8	ug/Kg
000646-31-1	Tetracosane	640	J		11.3	ug/Kg
000132-65-0	Dibenzothiophene	500	J		11.3	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	1300	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	930	J		12.0	ug/Kg
000112-62-9	9-Octadecenoic acid (Z)-, methyl e	2000	J		12.5	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