

Report of Analysis

Client:	PSEG	Date Collected:	08/06/25
Project:	Orange Gas	Date Received:	08/06/25
Client Sample ID:	RT5414	SDG No.:	Q2783
Lab Sample ID:	Q2783-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	98.8
Sample Wt/Vol:	50.01	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
BP025321.D	2	08/07/25 08:55	08/07/25 19:56	PB169155

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.40	U	0.19	0.40	mg/Kg
108-95-2	Phenol	0.21	U	0.027	0.21	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.21	U	0.030	0.21	mg/Kg
95-57-8	2-Chlorophenol	0.21	U	0.030	0.21	mg/Kg
95-48-7	2-Methylphenol	0.21	U	0.036	0.21	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.21	U	0.046	0.21	mg/Kg
98-86-2	Acetophenone	0.21	U	0.036	0.21	mg/Kg
65794-96-9	3+4-Methylphenols	0.40	U	0.050	0.40	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.097	U	0.058	0.097	mg/Kg
67-72-1	Hexachloroethane	0.21	U	0.021	0.21	mg/Kg
98-95-3	Nitrobenzene	0.21	U	0.022	0.21	mg/Kg
78-59-1	Isophorone	0.21	U	0.040	0.21	mg/Kg
88-75-5	2-Nitrophenol	0.21	U	0.071	0.21	mg/Kg
105-67-9	2,4-Dimethylphenol	0.21	U	0.079	0.21	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.21	U	0.037	0.21	mg/Kg
120-83-2	2,4-Dichlorophenol	0.21	U	0.034	0.21	mg/Kg
91-20-3	Naphthalene	0.21	U	0.028	0.21	mg/Kg
106-47-8	4-Chloroaniline	0.21	U	0.043	0.21	mg/Kg
87-68-3	Hexachlorobutadiene	0.21	U	0.031	0.21	mg/Kg
105-60-2	Caprolactam	0.40	U	0.063	0.40	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.21	U	0.035	0.21	mg/Kg
91-57-6	2-Methylnaphthalene	0.21	U	0.031	0.21	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.40	U	0.14	0.40	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.21	U	0.024	0.21	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.21	U	0.035	0.21	mg/Kg
92-52-4	1,1-Biphenyl	0.21	U	0.027	0.21	mg/Kg
91-58-7	2-Chloronaphthalene	0.21	U	0.027	0.21	mg/Kg
88-74-4	2-Nitroaniline	0.21	U	0.058	0.21	mg/Kg
131-11-3	Dimethylphthalate	0.21	U	0.033	0.21	mg/Kg

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208-96-8	Acenaphthylene	0.21	U	0.035	0.21	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.21	U	0.041	0.21	mg/Kg
99-09-2	3-Nitroaniline	0.21	U	0.056	0.21	mg/Kg
83-32-9	Acenaphthene	0.21	U	0.026	0.21	mg/Kg
51-28-5	2,4-Dinitrophenol	0.40	U	0.28	0.40	mg/Kg
100-02-7	4-Nitrophenol	0.40	U	0.13	0.40	mg/Kg
132-64-9	Dibenzofuran	0.21	U	0.028	0.21	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.21	U	0.061	0.21	mg/Kg
84-66-2	Diethylphthalate	0.21	U	0.034	0.21	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.21	U	0.032	0.21	mg/Kg
86-73-7	Fluorene	0.21	U	0.031	0.21	mg/Kg
100-01-6	4-Nitroaniline	0.21	U	0.078	0.21	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.40	U	0.13	0.40	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.21	U	0.040	0.21	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.21	U	0.034	0.21	mg/Kg
118-74-1	Hexachlorobenzene	0.21	U	0.031	0.21	mg/Kg
1912-24-9	Atrazine	0.21	U	0.041	0.21	mg/Kg
87-86-5	Pentachlorophenol	0.40	U	0.062	0.40	mg/Kg
85-01-8	Phenanthrene	0.10	J	0.025	0.21	mg/Kg
120-12-7	Anthracene	0.21	U	0.040	0.21	mg/Kg
86-74-8	Carbazole	0.21	U	0.038	0.21	mg/Kg
84-74-2	Di-n-butylphthalate	0.21	U	0.058	0.21	mg/Kg
206-44-0	Fluoranthene	0.17	J	0.036	0.21	mg/Kg
129-00-0	Pyrene	0.23		0.044	0.21	mg/Kg
85-68-7	Butylbenzylphthalate	0.21	U	0.087	0.21	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.40	U	0.045	0.40	mg/Kg
56-55-3	Benzo(a)anthracene	0.11	J	0.028	0.21	mg/Kg
218-01-9	Chrysene	0.14	J	0.024	0.21	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.21	U	0.072	0.21	mg/Kg
117-84-0	Di-n-octyl phthalate	0.40	U	0.11	0.40	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.15	J	0.023	0.21	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.21	U	0.027	0.21	mg/Kg
50-32-8	Benzo(a)pyrene	0.12	J	0.036	0.21	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.21	U	0.035	0.21	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.21	U	0.033	0.21	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.097	J	0.031	0.21	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.21	U	0.031	0.21	mg/Kg
123-91-1	1,4-Dioxane	0.21	U	0.055	0.21	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.21	U	0.033	0.21	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	63.9		18 - 112	43%	SPK: 150
13127-88-3	Phenol-d6	64.5		15 - 107	43%	SPK: 150
4165-60-0	Nitrobenzene-d5	42.3		18 - 107	42%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.6		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.7		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	74.0		10 - 105	74%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	297000	7.802
1146-65-2	Naphthalene-d8	1250000	10.572
15067-26-2	Acenaphthene-d10	775000	14.419
1517-22-2	Phenanthrene-d10	1550000	17.213
1719-03-5	Chrysene-d12	1490000	21.654
1520-96-3	Perylene-d12	1630000	25.042

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	330	J	3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	83.8	A	4.95	ug/Kg
013798-23-7	Hexathiane	87.0	J	15.0	ug/Kg
000119-61-9	Benzophenone	86.6	J	15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J	18.2	ug/Kg
000057-11-4	Octadecanoic acid	96.7	J	19.5	ug/Kg
074685-30-6	5-Eicosene, (E)-	120	J	21.3	ug/Kg

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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