284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | PSEG | | | Date Collected: | 09/30/25 |
| Project: | Orange Gas | | | Date Received: | 09/30/25 |
| Client Sample ID: | SOIL-PILE-2-WC | | | SDG No.: | Q3256 |
| Lab Sample ID: | Q3256-05 | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 86.3 |
| Sample Wt/Vol: | 50.04 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | | | Decanted : N | 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 |
|---|---|---|---|---|
| BP025911.D | 5 | 10/01/25 10:10 | 10/01/25 21:58 | PB169936 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 1.10 | U | 0.54 | 1.10 | mg/Kg |
| 108-95-2 | Phenol | 0.59 | U | 0.077 | 0.59 | mg/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 0.59 | U | 0.084 | 0.59 | mg/Kg |
| 95-57-8 | 2-Chlorophenol | 0.59 | U | 0.085 | 0.59 | mg/Kg |
| 95-48-7 | 2-Methylphenol | 0.59 | U | 0.10 | 0.59 | mg/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 0.59 | U | 0.13 | 0.59 | mg/Kg |
| 98-86-2 | Acetophenone | 0.59 | U | 0.10 | 0.59 | mg/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1.10 | U | 0.14 | 1.10 | mg/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 0.28 | U | 0.16 | 0.28 | mg/Kg |
| 67-72-1 | Hexachloroethane | 0.59 | U | 0.061 | 0.59 | mg/Kg |
| 98-95-3 | Nitrobenzene | 0.59 | U | 0.064 | 0.59 | mg/Kg |
| 78-59-1 | Isophorone | 0.59 | U | 0.11 | 0.59 | mg/Kg |
| 88-75-5 | 2-Nitrophenol | 0.59 | U | 0.20 | 0.59 | mg/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 0.59 | U | 0.23 | 0.59 | mg/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 0.59 | U | 0.11 | 0.59 | mg/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 0.59 | U | 0.098 | 0.59 | mg/Kg |
| 91-20-3 | Naphthalene | 0.81 | | 0.079 | 0.59 | mg/Kg |
| 106-47-8 | 4-Chloroaniline | 0.59 | U | 0.12 | 0.59 | mg/Kg |
| 87-68-3 | Hexachlorobutadiene | 0.59 | U | 0.088 | 0.59 | mg/Kg |
| 105-60-2 | Caprolactam | 1.10 | U | 0.18 | 1.10 | mg/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.59 | U | 0.100 | 0.59 | mg/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1.60 | | 0.089 | 0.59 | mg/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 1.10 | U | 0.40 | 1.10 | mg/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.59 | U | 0.069 | 0.59 | mg/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.59 | U | 0.10 | 0.59 | mg/Kg |
| 92-52-4 | 1,1-Biphenyl | 0.59 | U | 0.076 | 0.59 | mg/Kg |
| 91-58-7 | 2-Chloronaphthalene | 0.59 | U | 0.078 | 0.59 | mg/Kg |
| 88-74-4 | 2-Nitroaniline | 0.59 | U | 0.17 | 0.59 | mg/Kg |
| 131-11-3 | Dimethylphthalate | 0.59 | U | 0.094 | 0.59 | mg/Kg |

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| Client Sample ID: | SOIL-PILE-2-WC | | | SDG No.: | Q3256 |
| Lab Sample ID: | Q3256-05 | | | Matrix: | SOIL |
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| Sample Wt/Vol: | 50.04 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | | | Decanted : N | 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 |
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| BP025911.D | 5 | 10/01/25 10:10 | 10/01/25 21:58 | PB169936 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1.60 | | 0.10 | 0.59 | mg/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 0.59 | U | 0.12 | 0.59 | mg/Kg |
| 99-09-2 | 3-Nitroaniline | 0.59 | U | 0.16 | 0.59 | mg/Kg |
| 83-32-9 | Acenaphthene | 0.72 | | 0.074 | 0.59 | mg/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 1.10 | U | 0.80 | 1.10 | mg/Kg |
| 100-02-7 | 4-Nitrophenol | 1.10 | U | 0.37 | 1.10 | mg/Kg |
| 132-64-9 | Dibenzofuran | 0.40 | J | 0.079 | 0.59 | mg/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 0.59 | U | 0.17 | 0.59 | mg/Kg |
| 84-66-2 | Diethylphthalate | 0.59 | U | 0.098 | 0.59 | mg/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.59 | U | 0.093 | 0.59 | mg/Kg |
| 86-73-7 | Fluorene | 1.70 | | 0.088 | 0.59 | mg/Kg |
| 100-01-6 | 4-Nitroaniline | 0.59 | U | 0.22 | 0.59 | mg/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1.10 | U | 0.36 | 1.10 | mg/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 0.59 | U | 0.11 | 0.59 | mg/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.59 | U | 0.097 | 0.59 | mg/Kg |
| 118-74-1 | Hexachlorobenzene | 0.59 | U | 0.088 | 0.59 | mg/Kg |
| 1912-24-9 | Atrazine | 0.59 | U | 0.12 | 0.59 | mg/Kg |
| 87-86-5 | Pentachlorophenol | 1.10 | U | 0.18 | 1.10 | mg/Kg |
| 85-01-8 | Phenanthrene | 10.7 | E | 0.073 | 0.59 | mg/Kg |
| 120-12-7 | Anthracene | 2.30 | | 0.12 | 0.59 | mg/Kg |
| 86-74-8 | Carbazole | 0.58 | J | 0.11 | 0.59 | mg/Kg |
| 84-74-2 | Di-n-butylphthalate | 0.59 | U | 0.17 | 0.59 | mg/Kg |
| 206-44-0 | Fluoranthene | 7.90 | | 0.10 | 0.59 | mg/Kg |
| 129-00-0 | Pyrene | 10.2 | E | 0.13 | 0.59 | mg/Kg |
| 85-68-7 | Butylbenzylphthalate | 0.59 | U | 0.25 | 0.59 | mg/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1.10 | U | 0.13 | 1.10 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 4.30 | | 0.080 | 0.59 | mg/Kg |
| 218-01-9 | Chrysene | 4.80 | | 0.069 | 0.59 | mg/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 0.59 | U | 0.21 | 0.59 | mg/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1.10 | U | 0.30 | 1.10 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 4.10 | | 0.066 | 0.59 | mg/Kg |

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| Project: | Orange Gas | | | Date Received: | 09/30/25 |
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| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

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|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 0.96 | | 0.078 | 0.59 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 3.20 | | 0.10 | 0.59 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.60 | | 0.10 | 0.59 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.59 | | 0.095 | 0.59 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 2.10 | | 0.089 | 0.59 | mg/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.59 | U | 0.089 | 0.59 | mg/Kg |
| 123-91-1 | 1,4-Dioxane | 0.59 | U | 0.16 | 0.59 | mg/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.59 | U | 0.095 | 0.59 | mg/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 65.0 | | 18 - 112 | 43% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 58.7 | | 15 - 107 | 39% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 37.1 | | 18 - 107 | 37% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 41.8 | | 20 - 109 | 42% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 65.9 | | 10 - 116 | 44% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 42.9 | | 10 - 105 | 43% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 226000 | 7.743 | | | |
| 1146-65-2 | Naphthalene-d8 | 859000 | 10.507 | | | |
| 15067-26-2 | Acenaphthene-d10 | 538000 | 14.354 | | | |
| 1517-22-2 | Phenanthrene-d10 | 997000 | 17.154 | | | |
| 1719-03-5 | Chrysene-d12 | 964000 | 21.595 | | | |
| 1520-96-3 | Perylene-d12 | 1120000 | 24.948 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 90-12-0 | 1-Methylnaphthalene | 1700 | J | | 12.4 | ug/Kg |
| 000581-40-8 | Naphthalene, 2,3-dimethyl- | 1800 | J | | 13.7 | ug/Kg |
| 001730-37-6 | 9H-Fluorene, 1-methyl- | 1600 | J | | 16.4 | ug/Kg |
| 000486-25-9 | 9H-Fluoren-9-one | 1200 | J | | 16.8 | ug/Kg |
| 000132-65-0 | Dibenzothiophene | 1300 | J | | 17.0 | ug/Kg |
| 002531-84-2 | Phenanthrene, 2-methyl- | 4700 | J | | 18.1 | ug/Kg |
| 000613-12-7 | Anthracene, 2-methyl- | 5400 | J | | 18.1 | ug/Kg |

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|---|---|---|---|---|---|---|
| 000949-41-7 | 1H-Cyclopropa[l]phenanthrene,1a,9b | 1700 | J | | 18.2 | ug/Kg |
| 004505-48-0 | 1H-Indene, 2-phenyl- | 3400 | J | | 18.3 | ug/Kg |
| 000612-94-2 | Naphthalene, 2-phenyl- | 1800 | J | | 18.6 | ug/Kg |
| 000084-65-1 | 9,10-Anthracenedione | 2100 | J | | 18.6 | ug/Kg |
| 003674-69-9 | Phenanthrene, 4,5-dimethyl- | 1200 | J | | 18.8 | ug/Kg |
| 002789-88-0 | di-p-Tolylacetylene | 1400 | J | | 18.9 | ug/Kg |
| 000781-43-1 | 9,10-Dimethylanthracene | 4100 | J | | 19.0 | ug/Kg |
| 1000452-24-5 | 3,4-Dimethylphenanthrene | 1200 | J | | 19.1 | ug/Kg |
| 005737-13-3 | Cyclopenta(def)phenanthrenone | 2900 | J | | 19.2 | 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