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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PSEG | Date Collected: | 11/04/24 |
| Project: | Central (Harrison) Gas Division Service MA00006789 | Date Received: | 11/04/24 |
| Client Sample ID: | HR-03-110424 | SDG No.: | P4709 |
| Lab Sample ID: | P4709-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 92.5 |
| Sample Wt/Vol: | 50.09 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 |
|---|---|---|---|---|
| BF140258.D | 1 | 11/06/24 09:45 | 11/06/24 15:52 | PB164702 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 0.12 | U | 0.12 | 0.21 | mg/Kg |
| 108-95-2 | Phenol | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 95-57-8 | 2-Chlorophenol | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 95-48-7 | 2-Methylphenol | 0.052 | U | 0.052 | 0.11 | mg/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 0.059 | U | 0.059 | 0.11 | mg/Kg |
| 98-86-2 | Acetophenone | 0.056 | U | 0.056 | 0.11 | mg/Kg |
| 65794-96-9 | 3+4-Methylphenols | 0.052 | U | 0.052 | 0.21 | mg/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 0.026 | U | 0.026 | 0.052 | mg/Kg |
| 67-72-1 | Hexachloroethane | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 98-95-3 | Nitrobenzene | 0.059 | U | 0.059 | 0.11 | mg/Kg |
| 78-59-1 | Isophorone | 0.055 | U | 0.055 | 0.11 | mg/Kg |
| 88-75-5 | 2-Nitrophenol | 0.061 | U | 0.061 | 0.11 | mg/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 0.060 | U | 0.060 | 0.11 | mg/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 0.056 | U | 0.056 | 0.11 | mg/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 0.049 | U | 0.049 | 0.11 | mg/Kg |
| 91-20-3 | Naphthalene | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 106-47-8 | 4-Chloroaniline | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 87-68-3 | Hexachlorobutadiene | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 105-60-2 | Caprolactam | 0.056 | U | 0.056 | 0.21 | mg/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.050 | U | 0.050 | 0.11 | mg/Kg |
| 91-57-6 | 2-Methylnaphthalene | 0.053 | U | 0.053 | 0.11 | mg/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 0.10 | U | 0.10 | 0.21 | mg/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.046 | U | 0.046 | 0.11 | mg/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.048 | U | 0.048 | 0.11 | mg/Kg |
| 92-52-4 | 1,1-Biphenyl | 0.057 | U | 0.057 | 0.11 | mg/Kg |
| 91-58-7 | 2-Chloronaphthalene | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 88-74-4 | 2-Nitroaniline | 0.062 | U | 0.062 | 0.11 | mg/Kg |
| 131-11-3 | Dimethylphthalate | 0.053 | U | 0.053 | 0.11 | mg/Kg |

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| Project: | Central (Harrison) Gas Division Service MA00006789 | Date Received: | 11/04/24 |
| Client Sample ID: | HR-03-110424 | SDG No.: | P4709 |
| Lab Sample ID: | P4709-03 | Matrix: | SOIL |
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| 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 | | |

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| BF140258.D | 1 | 11/06/24 09:45 | 11/06/24 15:52 | PB164702 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 0.056 | U | 0.056 | 0.11 | mg/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 99-09-2 | 3-Nitroaniline | 0.058 | U | 0.058 | 0.11 | mg/Kg |
| 83-32-9 | Acenaphthene | 0.053 | U | 0.053 | 0.11 | mg/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 0.16 | U | 0.16 | 0.21 | mg/Kg |
| 100-02-7 | 4-Nitrophenol | 0.075 | U | 0.075 | 0.21 | mg/Kg |
| 132-64-9 | Dibenzofuran | 0.055 | U | 0.055 | 0.11 | mg/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 0.056 | U | 0.056 | 0.11 | mg/Kg |
| 84-66-2 | Diethylphthalate | 0.052 | U | 0.052 | 0.11 | mg/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.055 | U | 0.055 | 0.11 | mg/Kg |
| 86-73-7 | Fluorene | 0.055 | U | 0.055 | 0.11 | mg/Kg |
| 100-01-6 | 4-Nitroaniline | 0.069 | U | 0.069 | 0.11 | mg/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.076 | U | 0.076 | 0.21 | mg/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 0.053 | U | 0.053 | 0.11 | mg/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.051 | U | 0.051 | 0.11 | mg/Kg |
| 118-74-1 | Hexachlorobenzene | 0.055 | U | 0.055 | 0.11 | mg/Kg |
| 1912-24-9 | Atrazine | 0.059 | U | 0.059 | 0.11 | mg/Kg |
| 87-86-5 | Pentachlorophenol | 0.050 | U | 0.050 | 0.21 | mg/Kg |
| 85-01-8 | Phenanthrene | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 120-12-7 | Anthracene | 0.055 | U | 0.055 | 0.11 | mg/Kg |
| 86-74-8 | Carbazole | 0.052 | U | 0.052 | 0.11 | mg/Kg |
| 84-74-2 | Di-n-butylphthalate | 0.055 | U | 0.055 | 0.11 | mg/Kg |
| 206-44-0 | Fluoranthene | 0.10 | J | 0.053 | 0.11 | mg/Kg |
| 129-00-0 | Pyrene | 0.089 | J | 0.054 | 0.11 | mg/Kg |
| 85-68-7 | Butylbenzylphthalate | 0.063 | U | 0.063 | 0.11 | mg/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 0.064 | U | 0.064 | 0.21 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 0.070 | J | 0.052 | 0.11 | mg/Kg |
| 218-01-9 | Chrysene | 0.061 | J | 0.052 | 0.11 | mg/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 0.059 | U | 0.059 | 0.11 | mg/Kg |
| 117-84-0 | Di-n-octyl phthalate | 0.071 | U | 0.071 | 0.21 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 0.100 | J | 0.053 | 0.11 | mg/Kg |

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| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
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|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 0.054 | U | 0.054 | 0.11 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 0.073 | J | 0.060 | 0.11 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.051 | U | 0.051 | 0.11 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.053 | U | 0.053 | 0.11 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 0.052 | U | 0.052 | 0.11 | mg/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.056 | U | 0.056 | 0.11 | mg/Kg |
| 123-91-1 | 1,4-Dioxane | 0.071 | U | 0.071 | 0.11 | mg/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.048 | U | 0.048 | 0.11 | mg/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 93.2 | | 18 - 112 | 62% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 92.1 | | 15 - 107 | 61% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 65.1 | | 18 - 107 | 65% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 73.5 | | 20 - 109 | 74% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 83.3 | | 10 - 116 | 56% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 62.5 | | 10 - 105 | 63% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 139000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 508000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 254000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 353000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 255000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 194000 | 15.539 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 1200 | J | | 2.15 | ug/Kg |
| 004744-10-9 | Propane, 1,1-dimethoxy- | 65.0 | J | | 2.26 | ug/Kg |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 280 | A | | 5.09 | ug/Kg |
| 000629-59-4 | Tetradecane | 140 | J | | 9.31 | ug/Kg |
| 000582-16-1 | Naphthalene, 2,7-dimethyl- | 79.0 | J | | 9.57 | ug/Kg |
| 1000382-54-3 | Carbonic acid, eicosyl vinyl ester | 92.4 | J | | 9.63 | ug/Kg |
| 000629-62-9 | Pentadecane | 210 | J | | 9.85 | ug/Kg |

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|---|---|---|---|---|---|---|
| 000544-76-3 | Hexadecane | 310 | J | | 10.3 | ug/Kg |
| 001120-21-4 | Undecane | 180 | J | | 10.6 | ug/Kg |
| 000119-61-9 | Benzophenone | 64.5 | J | | 10.6 | ug/Kg |
| 000629-78-7 | Heptadecane | 580 | J | | 10.8 | ug/Kg |
| 000593-45-3 | Octadecane | 430 | J | | 11.3 | ug/Kg |
| 000646-31-1 | Tetracosane | 180 | J | | 11.3 | ug/Kg |
| 000629-92-5 | Nonadecane | 360 | J | | 11.7 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 190 | J | | 11.9 | ug/Kg |
| 000112-95-8 | Eicosane | 310 | J | | 12.1 | ug/Kg |
| 000629-94-7 | Heneicosane | 270 | J | | 12.5 | ug/Kg |
| 054833-23-7 | Eicosane, 10-methyl- | 150 | J | | 13.2 | ug/Kg |
| 013475-75-7 | Pentadecane, 8-hexyl- | 90.2 | J | | 13.6 | ug/Kg |
| 074685-33-9 | 3-Eicosene, (E)- | 120 | J | | 13.9 | 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