

## Report of Analysis

|                    |                            |                 |                  |
|--------------------|----------------------------|-----------------|------------------|
| Client:            | PSEG                       | Date Collected: | 08/13/25         |
| Project:           | Waldwick Switching Station | Date Received:  | 08/13/25         |
| Client Sample ID:  | DRILL CUTTING 1-5 COMP     | SDG No.:        | Q2870            |
| Lab Sample ID:     | Q2870-01                   | Matrix:         | SOIL             |
| Analytical Method: | 8270E                      | % Solid:        | 89.9             |
| Sample Wt/Vol:     | 50.01 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 |
| BP025492.D        | 1         | 08/15/25 08:25 | 08/20/25 03:10 | PB169259      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL   | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|-------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |       |            |                   |
| 100-52-7       | Benzaldehyde                | 0.10  | U         | 0.10  | 0.22       | mg/Kg             |
| 108-95-2       | Phenol                      | 0.015 | U         | 0.015 | 0.11       | mg/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.016 | U         | 0.016 | 0.11       | mg/Kg             |
| 95-57-8        | 2-Chlorophenol              | 0.016 | U         | 0.016 | 0.11       | mg/Kg             |
| 95-48-7        | 2-Methylphenol              | 0.020 | U         | 0.020 | 0.11       | mg/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 0.025 | U         | 0.025 | 0.11       | mg/Kg             |
| 98-86-2        | Acetophenone                | 0.020 | U         | 0.020 | 0.11       | mg/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 0.027 | U         | 0.027 | 0.22       | mg/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 0.032 | U         | 0.032 | 0.053      | mg/Kg             |
| 67-72-1        | Hexachloroethane            | 0.012 | U         | 0.012 | 0.11       | mg/Kg             |
| 98-95-3        | Nitrobenzene                | 0.012 | U         | 0.012 | 0.11       | mg/Kg             |
| 78-59-1        | Isophorone                  | 0.022 | U         | 0.022 | 0.11       | mg/Kg             |
| 88-75-5        | 2-Nitrophenol               | 0.039 | U         | 0.039 | 0.11       | mg/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 0.043 | U         | 0.043 | 0.11       | mg/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.021 | U         | 0.021 | 0.11       | mg/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 0.019 | U         | 0.019 | 0.11       | mg/Kg             |
| 91-20-3        | Naphthalene                 | 0.015 | U         | 0.015 | 0.11       | mg/Kg             |
| 106-47-8       | 4-Chloroaniline             | 0.024 | U         | 0.024 | 0.11       | mg/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 0.017 | U         | 0.017 | 0.11       | mg/Kg             |
| 105-60-2       | Caprolactam                 | 0.035 | U         | 0.035 | 0.22       | mg/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.019 | U         | 0.019 | 0.11       | mg/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 0.017 | U         | 0.017 | 0.11       | mg/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 0.077 | U         | 0.077 | 0.22       | mg/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.013 | U         | 0.013 | 0.11       | mg/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.019 | U         | 0.019 | 0.11       | mg/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 0.015 | U         | 0.015 | 0.11       | mg/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 0.015 | U         | 0.015 | 0.11       | mg/Kg             |
| 88-74-4        | 2-Nitroaniline              | 0.032 | U         | 0.032 | 0.11       | mg/Kg             |
| 131-11-3       | Dimethylphthalate           | 0.018 | U         | 0.018 | 0.11       | mg/Kg             |

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| Sample Wt/Vol:     | 50.01 Units: g             | Final Vol:      | 1000 uL          |
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| BP025492.D        | 1         | 08/15/25 08:25 | 08/20/25 03:10 | PB169259      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL   | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|-------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 0.019 | U         | 0.019 | 0.11       | mg/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.022 | U         | 0.022 | 0.11       | mg/Kg             |
| 99-09-2    | 3-Nitroaniline             | 0.031 | U         | 0.031 | 0.11       | mg/Kg             |
| 83-32-9    | Acenaphthene               | 0.014 | U         | 0.014 | 0.11       | mg/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 0.15  | U         | 0.15  | 0.22       | mg/Kg             |
| 100-02-7   | 4-Nitrophenol              | 0.071 | U         | 0.071 | 0.22       | mg/Kg             |
| 132-64-9   | Dibenzofuran               | 0.015 | U         | 0.015 | 0.11       | mg/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 0.033 | U         | 0.033 | 0.11       | mg/Kg             |
| 84-66-2    | Diethylphthalate           | 0.019 | U         | 0.019 | 0.11       | mg/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.018 | U         | 0.018 | 0.11       | mg/Kg             |
| 86-73-7    | Fluorene                   | 0.017 | U         | 0.017 | 0.11       | mg/Kg             |
| 100-01-6   | 4-Nitroaniline             | 0.043 | U         | 0.043 | 0.11       | mg/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 0.069 | U         | 0.069 | 0.22       | mg/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.022 | U         | 0.022 | 0.11       | mg/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.019 | U         | 0.019 | 0.11       | mg/Kg             |
| 118-74-1   | Hexachlorobenzene          | 0.017 | U         | 0.017 | 0.11       | mg/Kg             |
| 1912-24-9  | Atrazine                   | 0.023 | U         | 0.023 | 0.11       | mg/Kg             |
| 87-86-5    | Pentachlorophenol          | 0.034 | U         | 0.034 | 0.22       | mg/Kg             |
| 85-01-8    | Phenanthrene               | 0.014 | U         | 0.014 | 0.11       | mg/Kg             |
| 120-12-7   | Anthracene                 | 0.022 | U         | 0.022 | 0.11       | mg/Kg             |
| 86-74-8    | Carbazole                  | 0.021 | U         | 0.021 | 0.11       | mg/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 0.032 | U         | 0.032 | 0.11       | mg/Kg             |
| 206-44-0   | Fluoranthene               | 0.020 | U         | 0.020 | 0.11       | mg/Kg             |
| 129-00-0   | Pyrene                     | 0.024 | U         | 0.024 | 0.11       | mg/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 0.048 | U         | 0.048 | 0.11       | mg/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.025 | U         | 0.025 | 0.22       | mg/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 0.015 | U         | 0.015 | 0.11       | mg/Kg             |
| 218-01-9   | Chrysene                   | 0.013 | U         | 0.013 | 0.11       | mg/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 0.040 | U         | 0.040 | 0.11       | mg/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 0.058 | U         | 0.058 | 0.22       | mg/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 0.013 | U         | 0.013 | 0.11       | mg/Kg             |

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|------------|----------------------------|-------|-----------|-------|------------|-------------------|
| 207-08-9   | Benzo(k)fluoranthene       | 0.015 | U         | 0.015 | 0.11       | mg/Kg             |
| 50-32-8    | Benzo(a)pyrene             | 0.020 | U         | 0.020 | 0.11       | mg/Kg             |
| 193-39-5   | Indeno(1,2,3-cd)pyrene     | 0.019 | U         | 0.019 | 0.11       | mg/Kg             |
| 53-70-3    | Dibenzo(a,h)anthracene     | 0.018 | U         | 0.018 | 0.11       | mg/Kg             |
| 191-24-2   | Benzo(g,h,i)perylene       | 0.017 | U         | 0.017 | 0.11       | mg/Kg             |
| 95-94-3    | 1,2,4,5-Tetrachlorobenzene | 0.017 | U         | 0.017 | 0.11       | mg/Kg             |
| 123-91-1   | 1,4-Dioxane                | 0.030 | U         | 0.030 | 0.11       | mg/Kg             |
| 58-90-2    | 2,3,4,6-Tetrachlorophenol  | 0.018 | U         | 0.018 | 0.11       | mg/Kg             |

### SURROGATES

|            |                      |      |  |          |     |          |
|------------|----------------------|------|--|----------|-----|----------|
| 367-12-4   | 2-Fluorophenol       | 80.4 |  | 18 - 112 | 54% | SPK: 150 |
| 13127-88-3 | Phenol-d6            | 80.0 |  | 15 - 107 | 53% | SPK: 150 |
| 4165-60-0  | Nitrobenzene-d5      | 49.6 |  | 18 - 107 | 50% | SPK: 100 |
| 321-60-8   | 2-Fluorobiphenyl     | 44.9 |  | 20 - 109 | 45% | SPK: 100 |
| 118-79-6   | 2,4,6-Tribromophenol | 89.5 |  | 10 - 116 | 60% | SPK: 150 |
| 1718-51-0  | Terphenyl-d14        | 46.8 |  | 10 - 105 | 47% | SPK: 100 |

### INTERNAL STANDARDS

|            |                        |         |        |
|------------|------------------------|---------|--------|
| 3855-82-1  | 1,4-Dichlorobenzene-d4 | 148000  | 7.79   |
| 1146-65-2  | Naphthalene-d8         | 591000  | 10.554 |
| 15067-26-2 | Acenaphthene-d10       | 390000  | 14.395 |
| 1517-22-2  | Phenanthrene-d10       | 825000  | 17.195 |
| 1719-03-5  | Chrysene-d12           | 929000  | 21.63  |
| 1520-96-3  | Perylene-d12           | 1040000 | 24.989 |

### TENTATIVE IDENTIFIED COMPOUNDS

|             |                                  |      |   |      |       |
|-------------|----------------------------------|------|---|------|-------|
| 000994-05-8 | Butane, 2-methoxy-2-methyl-      | 460  | J | 3.04 | ug/Kg |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 120  | A | 4.95 | ug/Kg |
| 000629-78-7 | Heptadecane                      | 46.0 | J | 12.0 | ug/Kg |
| 000119-61-9 | Benzophenone                     | 120  | J | 15.8 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid              | 140  | J | 18.1 | ug/Kg |
| 000112-88-9 | 1-Octadecene                     | 120  | J | 21.3 | ug/Kg |

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| Sample Wt/Vol:     | 50.01      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                     |                 |                              |

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| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|------------|-----------|-------|-----------|-----|------------|-------------------|
|------------|-----------|-------|-----------|-----|------------|-------------------|

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