

## Report of Analysis

|                    |                              |                 |          |
|--------------------|------------------------------|-----------------|----------|
| Client:            | PSEG                         | Date Collected: | 02/25/25 |
| Project:           | North Arlington Public Works | Date Received:  | 02/25/25 |
| Client Sample ID:  | VNJ-227                      | SDG No.:        | Q1427    |
| Lab Sample ID:     | Q1427-01                     | Matrix:         | SOIL     |
| Analytical Method: | SW8270                       | % Solid:        | 85.6     |
| Sample Wt/Vol:     | 50.04                        | Units:          | g        |
| Soil Aliquot Vol:  |                              |                 | uL       |
| Extraction Type :  |                              | Decanted :      | N        |
| Injection Volume : |                              | Level :         | LOW      |
|                    |                              | GPC Factor :    | 1.0      |
|                    |                              | GPC Cleanup :   | N        |
|                    |                              | PH :            |          |
| Prep Method :      | SW3541                       |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF141789.D        | 1         | 02/26/25 08:35 | 02/26/25 18:25 | PB166870      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL   | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|-------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |       |            |                   |
| 100-52-7       | Benzaldehyde                | 0.23  | U         | 0.13  | 0.23       | mg/Kg             |
| 108-95-2       | Phenol                      | 0.12  | U         | 0.058 | 0.12       | mg/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.12  | U         | 0.059 | 0.12       | mg/Kg             |
| 95-57-8        | 2-Chlorophenol              | 0.12  | U         | 0.059 | 0.12       | mg/Kg             |
| 95-48-7        | 2-Methylphenol              | 0.12  | U         | 0.057 | 0.12       | mg/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 0.12  | U         | 0.064 | 0.12       | mg/Kg             |
| 98-86-2        | Acetophenone                | 0.12  | U         | 0.061 | 0.12       | mg/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 0.23  | U         | 0.056 | 0.23       | mg/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 0.056 | U         | 0.028 | 0.056      | mg/Kg             |
| 67-72-1        | Hexachloroethane            | 0.12  | U         | 0.058 | 0.12       | mg/Kg             |
| 98-95-3        | Nitrobenzene                | 0.12  | U         | 0.064 | 0.12       | mg/Kg             |
| 78-59-1        | Isophorone                  | 0.12  | U         | 0.059 | 0.12       | mg/Kg             |
| 88-75-5        | 2-Nitrophenol               | 0.12  | U         | 0.066 | 0.12       | mg/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 0.12  | U         | 0.065 | 0.12       | mg/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.12  | U         | 0.060 | 0.12       | mg/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 0.12  | U         | 0.053 | 0.12       | mg/Kg             |
| 91-20-3        | Naphthalene                 | 0.12  | U         | 0.058 | 0.12       | mg/Kg             |
| 106-47-8       | 4-Chloroaniline             | 0.12  | U         | 0.058 | 0.12       | mg/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 0.12  | U         | 0.058 | 0.12       | mg/Kg             |
| 105-60-2       | Caprolactam                 | 0.23  | U         | 0.061 | 0.23       | mg/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.12  | U         | 0.054 | 0.12       | mg/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 0.12  | U         | 0.058 | 0.12       | mg/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 0.23  | U         | 0.11  | 0.23       | mg/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.12  | U         | 0.050 | 0.12       | mg/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.12  | U         | 0.052 | 0.12       | mg/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 0.12  | U         | 0.061 | 0.12       | mg/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 0.12  | U         | 0.058 | 0.12       | mg/Kg             |
| 88-74-4        | 2-Nitroaniline              | 0.12  | U         | 0.067 | 0.12       | mg/Kg             |
| 131-11-3       | Dimethylphthalate           | 0.12  | U         | 0.057 | 0.12       | mg/Kg             |

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| Lab Sample ID:     | Q1427-01                     | Matrix:         | SOIL     |
| Analytical Method: | SW8270                       | % Solid:        | 85.6     |
| Sample Wt/Vol:     | 50.04                        | Units:          | g        |
| Soil Aliquot Vol:  |                              |                 | uL       |
| Extraction Type :  |                              | Decanted :      | N        |
| Injection Volume : |                              | Level :         | LOW      |
|                    |                              | GPC Factor :    | 1.0      |
|                    |                              | GPC Cleanup :   | N        |
|                    |                              | PH :            |          |
| Prep Method :      | SW3541                       |                 |          |

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| BF141789.D        | 1         | 02/26/25 08:35 | 02/26/25 18:25 | PB166870      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL   | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|-------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 0.12  | U         | 0.061 | 0.12       | mg/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.12  | U         | 0.058 | 0.12       | mg/Kg             |
| 99-09-2    | 3-Nitroaniline             | 0.12  | U         | 0.063 | 0.12       | mg/Kg             |
| 83-32-9    | Acenaphthene               | 0.12  | U         | 0.057 | 0.12       | mg/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 0.23  | U         | 0.17  | 0.23       | mg/Kg             |
| 100-02-7   | 4-Nitrophenol              | 0.23  | U         | 0.081 | 0.23       | mg/Kg             |
| 132-64-9   | Dibenzofuran               | 0.12  | U         | 0.059 | 0.12       | mg/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 0.12  | U         | 0.060 | 0.12       | mg/Kg             |
| 84-66-2    | Diethylphthalate           | 0.12  | U         | 0.056 | 0.12       | mg/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.12  | U         | 0.060 | 0.12       | mg/Kg             |
| 86-73-7    | Fluorene                   | 0.12  | U         | 0.060 | 0.12       | mg/Kg             |
| 100-01-6   | 4-Nitroaniline             | 0.12  | U         | 0.075 | 0.12       | mg/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 0.23  | U         | 0.082 | 0.23       | mg/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.12  | U         | 0.057 | 0.12       | mg/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.12  | U         | 0.055 | 0.12       | mg/Kg             |
| 118-74-1   | Hexachlorobenzene          | 0.12  | U         | 0.060 | 0.12       | mg/Kg             |
| 1912-24-9  | Atrazine                   | 0.12  | U         | 0.064 | 0.12       | mg/Kg             |
| 87-86-5    | Pentachlorophenol          | 0.23  | U         | 0.054 | 0.23       | mg/Kg             |
| 85-01-8    | Phenanthrene               | 0.10  | J         | 0.059 | 0.12       | mg/Kg             |
| 120-12-7   | Anthracene                 | 0.12  | U         | 0.059 | 0.12       | mg/Kg             |
| 86-74-8    | Carbazole                  | 0.12  | U         | 0.056 | 0.12       | mg/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 0.12  | U         | 0.059 | 0.12       | mg/Kg             |
| 206-44-0   | Fluoranthene               | 0.15  |           | 0.057 | 0.12       | mg/Kg             |
| 129-00-0   | Pyrene                     | 0.12  |           | 0.058 | 0.12       | mg/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 0.12  | U         | 0.068 | 0.12       | mg/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.23  | U         | 0.069 | 0.23       | mg/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 0.077 | J         | 0.057 | 0.12       | mg/Kg             |
| 218-01-9   | Chrysene                   | 0.074 | J         | 0.056 | 0.12       | mg/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 0.12  | U         | 0.064 | 0.12       | mg/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 0.23  | U         | 0.077 | 0.23       | mg/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 0.072 | J         | 0.057 | 0.12       | mg/Kg             |

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| Lab Sample ID:     | Q1427-01                     | Matrix:         | SOIL             |
| Analytical Method: | SW8270                       | % Solid:        | 85.6             |
| 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                       |                 |                  |

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|------------|----------------------------|-------|-----------|-------|------------|-------------------|
| 207-08-9   | Benzo(k)fluoranthene       | 0.12  | U         | 0.058 | 0.12       | mg/Kg             |
| 50-32-8    | Benzo(a)pyrene             | 0.071 | J         | 0.065 | 0.12       | mg/Kg             |
| 193-39-5   | Indeno(1,2,3-cd)pyrene     | 0.12  | U         | 0.055 | 0.12       | mg/Kg             |
| 53-70-3    | Dibenzo(a,h)anthracene     | 0.12  | U         | 0.057 | 0.12       | mg/Kg             |
| 191-24-2   | Benzo(g,h,i)perylene       | 0.12  | U         | 0.056 | 0.12       | mg/Kg             |
| 95-94-3    | 1,2,4,5-Tetrachlorobenzene | 0.12  | U         | 0.061 | 0.12       | mg/Kg             |
| 123-91-1   | 1,4-Dioxane                | 0.12  | U         | 0.077 | 0.12       | mg/Kg             |
| 58-90-2    | 2,3,4,6-Tetrachlorophenol  | 0.12  | U         | 0.052 | 0.12       | mg/Kg             |

### SURROGATES

|            |                      |      |  |          |     |          |
|------------|----------------------|------|--|----------|-----|----------|
| 367-12-4   | 2-Fluorophenol       | 77.1 |  | 18 - 112 | 51% | SPK: 150 |
| 13127-88-3 | Phenol-d6            | 75.5 |  | 15 - 107 | 50% | SPK: 150 |
| 4165-60-0  | Nitrobenzene-d5      | 46.0 |  | 18 - 107 | 46% | SPK: 100 |
| 321-60-8   | 2-Fluorobiphenyl     | 39.9 |  | 20 - 109 | 40% | SPK: 100 |
| 118-79-6   | 2,4,6-Tribromophenol | 69.6 |  | 10 - 116 | 46% | SPK: 150 |
| 1718-51-0  | Terphenyl-d14        | 35.5 |  | 10 - 105 | 35% | SPK: 100 |

### INTERNAL STANDARDS

|            |                        |        |        |
|------------|------------------------|--------|--------|
| 3855-82-1  | 1,4-Dichlorobenzene-d4 | 74600  | 6.781  |
| 1146-65-2  | Naphthalene-d8         | 294000 | 8.063  |
| 15067-26-2 | Acenaphthene-d10       | 158000 | 9.816  |
| 1517-22-2  | Phenanthrene-d10       | 260000 | 11.298 |
| 1719-03-5  | Chrysene-d12           | 182000 | 13.939 |
| 1520-96-3  | Perylene-d12           | 186000 | 15.386 |

### TENTATIVE IDENTIFIED COMPOUNDS

|              |                                    |     |   |      |       |
|--------------|------------------------------------|-----|---|------|-------|
| 002216-30-0  | Heptane, 2,5-dimethyl-             | 100 | J | 4.90 | ug/Kg |
| 003073-66-3  | Cyclohexane, 1,1,3-trimethyl-      | 150 | J | 4.97 | ug/Kg |
| 007667-60-9  | Cyclohexane, 1,2,4-trimethyl-, (1. | 110 | J | 5.17 | ug/Kg |
| 003728-57-2  | Cyclopentane, 1-methyl-2-propyl-   | 110 | J | 5.54 | ug/Kg |
| 003728-56-1  | 1-Ethyl-4-methylcyclohexane        | 140 | J | 5.79 | ug/Kg |
| 1000383-63-7 | Hexenyl angelate, 4z-              | 150 | J | 5.93 | ug/Kg |
| 005911-04-6  | Nonane, 3-methyl-                  | 370 | J | 6.02 | ug/Kg |

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| Analytical Method: | SW8270                       | % Solid:        | 85.6             |
| Sample Wt/Vol:     | 50.04                        | 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                       |                 |                  |

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|--------------|------------------------------------|-------|-----------|-----|------------|-------------------|
|              | unknown6.210                       | 130   | J         |     | 6.21       | ug/Kg             |
| 006783-92-2  | Cyclohexane, 1,1,2,3-tetramethyl-  | 180   | J         |     | 6.31       | ug/Kg             |
| 002207-03-6  | Cyclohexane, 1,3-dimethyl-, trans- | 150   | J         |     | 6.52       | ug/Kg             |
|              | unknown6.887                       | 89.9  | J         |     | 6.89       | ug/Kg             |
| 001678-98-4  | Cyclohexane, (2-methylpropyl)-     | 130   | J         |     | 6.92       | ug/Kg             |
| 071186-27-1  | 1-Ethyl-2,2,6-trimethylcyclohexane | 110   | J         |     | 7.04       | ug/Kg             |
|              | unknown7.422                       | 150   | J         |     | 7.42       | ug/Kg             |
| 1000406-41-2 | Butyl triacontyl ether             | 130   | J         |     | 7.48       | ug/Kg             |
| 017312-54-8  | Decane, 3,7-dimethyl-              | 89.4  | J         |     | 7.56       | ug/Kg             |
| 004292-92-6  | Cyclohexane, pentyl-               | 100   | J         |     | 7.68       | ug/Kg             |
| 002039-89-6  | Benzene, 2-ethenyl-1,4-dimethyl-   | 91.7  | J         |     | 7.80       | ug/Kg             |
| 017301-23-4  | Undecane, 2,6-dimethyl-            | 130   | J         |     | 8.12       | ug/Kg             |
| 000057-10-3  | n-Hexadecanoic acid                | 110   | J         |     | 11.8       | 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