

## 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:         | Solid    |
| Analytical Method: | NJEPH                        | % Solid:        | 85.6     |
| Sample Wt/Vol:     | 30.04                        | Units:          | g        |
| Soil Aliquot Vol:  |                              | Final Vol:      | 2000 uL  |
| Prep Method :      |                              | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 02/26/25 08:55 | 02/26/25 14:34  | PB166871      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 7.20  |           | 1        | 2.10 | 2.33       | mg/kg FE052515.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 24.5  |           | 1        | 2.01 | 4.68       | mg/kg FE052515.D  |
| Total AliphaticEPH | Total AliphaticEPH | 31.7  |           |          | 4.11 | 7.01       | mg/kg             |
| Total EPH          | Total EPH          | 31.7  |           |          | 4.11 | 7.01       | mg/kg             |

\* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

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|                    |                              |                 |                      |
|--------------------|------------------------------|-----------------|----------------------|
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| Project:           | North Arlington Public Works | Date Received:  | 02/25/25             |
| Client Sample ID:  | VNJ-227                      | SDG No.:        | Q1427                |
| Lab Sample ID:     | Q1427-01                     | Matrix:         | Solid                |
| Analytical Method: | NJEPH                        | % Solid:        | 85.6                 |
| Sample Wt/Vol:     | 30.04      Units:    g       | Final Vol:      | 2000              uL |
| Soil Aliquot Vol:  | uL                           | Test:           | EPH_NF               |
| Prep Method :      |                              |                 |                      |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE052515.D | 1         | 02/26/25    | 02/26/25        | PB166871      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 24.5  |           | 2.01     | 4.68       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 7.20  |           | 2.10     | 2.33       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 30.7  |           | 40 - 140 | 61%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 28.2  |           | 40 - 140 | 56%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1427-01   | Acq On:            | 26 Feb 2025 14:34 |
| Client Sample ID: | VNJ-227    | Operator:          | YP\AJ             |
| Data file:        | FE052515.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 14                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.154  | 6.799  | 40550253 | 260.198 | 300              | ug/ml |
| Aliphatic C12-C16         | 6.800  | 10.253 | 6972426  | 43.448  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.254 | 13.633 | 1917169  | 11.944  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.634 | 17.305 | 1591336  | 10.24   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.306 | 22.225 | 12128890 | 92.598  | 600              | ug/ml |
| Aliphatic EPH             | 3.154  | 22.225 | 63160074 | 418.428 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.919 | 11.919 | 5274704  | 28.22   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.364 | 13.364 | 4267753  | 30.7    |                  | ug/ml |
| Aliphatic C9-C28          | 3.154  | 17.305 | 51031184 | 325.83  | 1200             | ug/ml |