

## Report of Analysis

|                    |                      |                 |          |
|--------------------|----------------------|-----------------|----------|
| Client:            | PSEG                 | Date Collected: | 04/28/25 |
| Project:           | Sewaren Laydown Yard | Date Received:  | 04/28/25 |
| Client Sample ID:  | VNJ-210              | SDG No.:        | Q1904    |
| Lab Sample ID:     | Q1904-01             | Matrix:         | Solid    |
| Analytical Method: | NJEPH                | % Solid:        | 90.6     |
| Sample Wt/Vol:     | 30.08                | Units:          | g        |
| Soil Aliquot Vol:  |                      |                 | uL       |
| Prep Method :      |                      | Final Vol:      | 2000     |
|                    |                      | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 04/29/25 09:05 | 04/29/25 15:13  | PB167778      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 3.56  |           | 1        | 1.30 | 2.20       | mg/kg             | FE053569.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 2.98  | J         | 1        | 1.00 | 4.40       | mg/kg             | FE053569.D |
| Total AliphaticEPH | Total AliphaticEPH | 6.54  | J         |          | 2.30 | 6.60       | mg/kg             |            |
| Total EPH          | Total EPH          | 6.54  | J         |          | 2.30 | 6.60       | 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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| Client Sample ID:  | VNJ-210              | SDG No.:        | Q1904    |
| Lab Sample ID:     | Q1904-01             | Matrix:         | Solid    |
| Analytical Method: | NJEPH                | % Solid:        | 90.6     |
| Sample Wt/Vol:     | 30.08                | Units:          | g        |
| Soil Aliquot Vol:  |                      | Final Vol:      | 2000 uL  |
| Prep Method :      |                      | Test:           | EPH_NF   |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE053569.D | 1         | 04/29/25    | 04/29/25        | PB167778      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 2.98  | J         | 1.00     | 4.40       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 3.56  |           | 1.30     | 2.20       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 35.7  |           | 40 - 140 | 71%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 33.0  |           | 40 - 140 | 66%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1904-01   | Acq On:            | 29 Apr 2025 15:13 |
| Client Sample ID: | VNJ-210    | Operator:          | YP\AJ             |
| Data file:        | FE053569.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          | 3.116  | 6.759  | 358876   | 2.59   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.760  | 10.208 | 659637   | 4.652  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.209 | 13.583 | 1235019  | 8.496  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.584 | 17.253 | 3550142  | 24.97  | 400              | ug/ml |
| Aliphatic C28-C40         | 17.254 | 22.144 | 6264553  | 48.544 | 600              | ug/ml |
| Aliphatic EPH             | 3.116  | 22.144 | 12068227 | 89.252 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.870 | 11.870 | 5946302  | 32.97  |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.314 | 13.314 | 4826928  | 35.71  |                  | ug/ml |
| Aliphatic C9-C28          | 3.116  | 17.253 | 5803674  | 40.708 | 1200             | ug/ml |