

## Report of Analysis

|                    |                 |                 |          |
|--------------------|-----------------|-----------------|----------|
| Client:            | PSEG            | Date Collected: | 04/16/25 |
| Project:           | PL-714 Watchung | Date Received:  | 04/17/25 |
| Client Sample ID:  | PL-714-19       | SDG No.:        | Q1832    |
| Lab Sample ID:     | Q1832-39        | Matrix:         | Solid    |
| Analytical Method: | NJEPH           | % Solid:        | 85.5     |
| Sample Wt/Vol:     | 30.06           | Units:          | g        |
| Soil Aliquot Vol:  |                 | Final Vol:      | 2000 uL  |
| Prep Method :      |                 | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 04/21/25 08:20 | 04/21/25 20:04  | PB167658      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 4.56  |           | 1        | 1.38 | 2.33       | mg/kg             | FE053449.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 2.12  | J         | 1        | 1.06 | 4.68       | mg/kg             | FE053449.D |
| Total AliphaticEPH | Total AliphaticEPH | 6.68  | J         |          | 2.44 | 7.01       | mg/kg             |            |
| Total EPH          | Total EPH          | 6.68  | J         |          | 2.44 | 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

## Report of Analysis

|                    |                 |                 |          |
|--------------------|-----------------|-----------------|----------|
| Client:            | PSEG            | Date Collected: | 04/16/25 |
| Project:           | PL-714 Watchung | Date Received:  | 04/17/25 |
| Client Sample ID:  | PL-714-19       | SDG No.:        | Q1832    |
| Lab Sample ID:     | Q1832-39        | Matrix:         | Solid    |
| Analytical Method: | NJEPH           | % Solid:        | 85.5     |
| Sample Wt/Vol:     | 30.06           | Units:          | g        |
| Soil Aliquot Vol:  |                 | Final Vol:      | 2000 uL  |
| Prep Method :      |                 | Test:           | EPH_NF   |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE053449.D | 1         | 04/21/25    | 04/21/25        | PB167658      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 2.12  | J         | 1.06     | 4.68       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 4.56  |           | 1.38     | 2.33       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 41.4  |           | 40 - 140 | 83%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 39.8  |           | 40 - 140 | 80%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1832-39   | Acq On:            | 21 Apr 2025 20:04 |
| Client Sample ID: | PL-714-19  | Operator:          | YP\AJ             |
| Data file:        | FE053449.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 23                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc   | highest_standard | Units |
|---------------------------|--------|--------|----------|--------|------------------|-------|
| Aliphatic C9-C12          | 3.124  | 6.766  | 419506   | 3.028  | 300              | ug/ml |
| Aliphatic C12-C16         | 6.767  | 10.216 | 754148   | 5.318  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.217 | 13.591 | 790387   | 5.437  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.592 | 17.262 | 1923978  | 13.532 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.263 | 22.159 | 7569173  | 58.653 | 600              | ug/ml |
| Aliphatic EPH             | 3.124  | 22.159 | 11457192 | 85.969 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.879 | 11.879 | 7168500  | 39.75  |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.323 | 13.323 | 5599347  | 41.42  |                  | ug/ml |
| Aliphatic C9-C28          | 3.124  | 17.262 | 3888019  | 27.315 | 1200             | ug/ml |