

## Report of Analysis

|                    |                     |                 |              |
|--------------------|---------------------|-----------------|--------------|
| Client:            | PSEG                | Date Collected: | 04/16/25     |
| Project:           | PL-714 Watchung     | Date Received:  | 04/17/25     |
| Client Sample ID:  | PL-714-04           | SDG No.:        | Q1832        |
| Lab Sample ID:     | Q1832-09            | Matrix:         | Solid        |
| Analytical Method: | NJEPH               | % Solid:        | 82.1         |
| Sample Wt/Vol:     | 30.01      Units: g | Final Vol:      | 2000      uL |
| Soil Aliquot Vol:  | uL                  | Test:           | EPH_NF       |
| Prep Method :      |                     |                 |              |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 04/18/25 10:00 | 04/18/25 19:31  | PB167646      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 12.9  |           | 1        | 1.44 | 2.44       | mg/kg FG015713.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 9.90  |           | 1        | 1.11 | 4.87       | mg/kg FG015713.D  |
| Total AliphaticEPH | Total AliphaticEPH | 22.8  |           |          | 2.55 | 7.31       | mg/kg             |
| Total EPH          | Total EPH          | 22.8  |           |          | 2.55 | 7.31       | 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-714-04              | SDG No.:        | Q1832                |
| Lab Sample ID:     | Q1832-09               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 82.1                 |
| Sample Wt/Vol:     | 30.01      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 |
| FG015713.D | 1         | 04/18/25    | 04/18/25        | PB167646      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 9.90  |           | 1.11     | 4.87       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 12.9  |           | 1.44     | 2.44       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 47.7  |           | 40 - 140 | 95%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 44.2  |           | 40 - 140 | 88%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1832-09   | Acq On:            | 18 Apr 2025 19:31 |
| Client Sample ID: | PL-714-04  | Operator:          | YP\AJ             |
| Data file:        | FG015713.D | Misc:              |                   |
| Instrument:       | FID_G      | ALS Vial:          | 32                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.148  | 6.788  | 332348   | 2.948   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.789  | 10.237 | 617570   | 5.35    | 200              | ug/ml |
| Aliphatic C16-C21         | 10.238 | 13.612 | 12140187 | 102.048 | 300              | ug/ml |
| Aliphatic C21-C28         | 13.613 | 17.283 | 1323697  | 11.705  | 400              | ug/ml |
| Aliphatic C28-C40         | 17.284 | 22.195 | 15632363 | 158.45  | 600              | ug/ml |
| Aliphatic EPH             | 3.148  | 22.195 | 30046165 | 280.5   |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.906 | 11.906 | 6406291  | 44.19   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.350 | 13.350 | 5041154  | 47.67   |                  | ug/ml |
| Aliphatic C9-C28          | 3.148  | 17.283 | 14413802 | 122.051 | 1200             | ug/ml |