

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | PSEG                   | Date Collected: | 03/25/25 |
| Project:           | Central Ave Substation | Date Received:  | 03/25/25 |
| Client Sample ID:  | TP-3                   | SDG No.:        | Q1648    |
| Lab Sample ID:     | Q1648-05               | Matrix:         | Solid    |
| Analytical Method: | NJEPH                  | % Solid:        | 87.7     |
| Sample Wt/Vol:     | 30.05                  | Units:          | g        |
| Soil Aliquot Vol:  |                        | Final Vol:      | 2000 uL  |
| Prep Method :      |                        | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 03/27/25 09:55 | 03/27/25 14:52  | PB167350      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 5.74  |           | 1        | 1.34 | 2.28       | mg/kg             | FE053017.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 2.99  | J         | 1        | 1.03 | 4.56       | mg/kg             | FE053017.D |
| Total AliphaticEPH | Total AliphaticEPH | 8.73  |           |          | 2.38 | 6.84       | mg/kg             |            |
| Total EPH          | Total EPH          | 8.73  |           |          | 2.38 | 6.84       | 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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| Client Sample ID:  | TP-3                   | SDG No.:        | Q1648                |
| Lab Sample ID:     | Q1648-05               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 87.7                 |
| Sample Wt/Vol:     | 30.05      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 |
| FE053017.D | 1         | 03/27/25    | 03/27/25        | PB167350      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 2.99  | J         | 1.03     | 4.56       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 5.74  |           | 1.34     | 2.28       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 28.6  |           | 40 - 140 | 57%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 27.4  |           | 40 - 140 | 55%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1648-05   | Acq On:            | 27 Mar 2025 14:52 |
| Client Sample ID: | TP-3       | Operator:          | YP\AJ             |
| Data file:        | FE053017.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 13                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.143  | 6.785  | 1171120  | 7.51    | 300              | ug/ml |
| Aliphatic C12-C16         | 6.786  | 10.236 | 858390   | 5.644   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.237 | 13.612 | 1369397  | 9.344   | 300              | ug/ml |
| Aliphatic C21-C28         | 13.613 | 17.282 | 2397508  | 16.83   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.283 | 22.191 | 9645163  | 75.596  | 600              | ug/ml |
| Aliphatic EPH             | 3.143  | 22.191 | 15441578 | 114.923 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.899 | 11.899 | 4623323  | 27.42   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.344 | 13.344 | 3473367  | 28.6    |                  | ug/ml |
| Aliphatic C9-C28          | 3.143  | 17.282 | 5796415  | 39.328  | 1200             | ug/ml |