

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | PSEG                   | Date Collected: | 04/16/25 |
| Project:           | Central Ave Substation | Date Received:  | 04/16/25 |
| Client Sample ID:  | TP-9                   | SDG No.:        | Q1825    |
| Lab Sample ID:     | Q1825-01               | Matrix:         | Solid    |
| Analytical Method: | NJEPH                  | % Solid:        | 90.8     |
| Sample Wt/Vol:     | 30.07                  | Units:          | g        |
| Soil Aliquot Vol:  |                        | Final Vol:      | 2000 uL  |
| Prep Method :      |                        | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 04/17/25 11:10 | 04/17/25 15:59  | PB167630      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 8.42  |           | 1        | 1.30 | 2.20       | mg/kg FC068622.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 12.1  |           | 1        | 1.00 | 4.40       | mg/kg FC068622.D  |
| Total AliphaticEPH | Total AliphaticEPH | 20.5  |           |          | 2.30 | 6.60       | mg/kg             |
| Total EPH          | Total EPH          | 20.5  |           |          | 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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|                    |                        |                 |                      |
|--------------------|------------------------|-----------------|----------------------|
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| Client Sample ID:  | TP-9                   | SDG No.:        | Q1825                |
| Lab Sample ID:     | Q1825-01               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 90.8                 |
| Sample Wt/Vol:     | 30.07      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 |
| FC068622.D | 1         | 04/17/25    | 04/17/25        | PB167630      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 12.1  |           | 1.00     | 4.40       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 8.42  |           | 1.30     | 2.20       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 55.9  |           | 40 - 140 | 112%       | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 53.1  |           | 40 - 140 | 106%       | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1825-01   | Acq On:            | 17 Apr 2025 15:59 |
| Client Sample ID: | TP-9       | Operator:          | YP/AJ             |
| Data file:        | FC068622.D | Misc:              |                   |
| Instrument:       | FID_C      | ALS Vial:          | 12                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.346  | 6.649  | 415269   | 3.944   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.650  | 10.049 | 651002   | 6.362   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.050 | 13.417 | 9860750  | 99.788  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.418 | 17.083 | 5164532  | 54.834  | 400              | ug/ml |
| Aliphatic C28-C40         | 17.084 | 22.088 | 10331518 | 114.944 | 600              | ug/ml |
| Aliphatic EPH             | 3.346  | 22.088 | 26423071 | 279.873 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.722 | 11.722 | 6768484  | 53.15   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.154 | 13.154 | 5190566  | 55.88   |                  | ug/ml |
| Aliphatic C9-C28          | 3.346  | 17.083 | 16091553 | 164.928 | 1200             | ug/ml |