

## Report of Analysis

|                    |                     |                 |          |
|--------------------|---------------------|-----------------|----------|
| Client:            | PSEG                | Date Collected: | 04/22/25 |
| Project:           | Waldwick Substation | Date Received:  | 04/22/25 |
| Client Sample ID:  | ETGI-278            | SDG No.:        | Q1852    |
| Lab Sample ID:     | Q1852-05            | Matrix:         | Solid    |
| Analytical Method: | NJEPH               | % Solid:        | 91.5     |
| 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 |
| 04/23/25 09:45 | 04/23/25 16:18  | PB167712      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 2.86  |           | 1        | 1.29 | 2.18       | mg/kg FE053503.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 94.5  |           | 2        | 1.99 | 8.72       | mg/kg FE053517.D  |
| Total AliphaticEPH | Total AliphaticEPH | 97.3  |           |          | 3.28 | 10.9       | mg/kg             |
| Total EPH          | Total EPH          | 97.3  |           |          | 3.28 | 10.9       | 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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| Lab Sample ID:     | Q1852-05               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 91.5                 |
| 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 |
| FE053503.D | 1         | 04/23/25    | 04/23/25        | PB167712      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 91.7  | E         | 0.99     | 4.36       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 2.86  |           | 1.29     | 2.18       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 44.5  |           | 40 - 140 | 89%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 46.5  |           | 40 - 140 | 93%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1852-05   | Acq On:            | 23 Apr 2025 16:18 |
| Client Sample ID: | ETGI-278   | Operator:          | YP\AJ             |
| Data file:        | FE053503.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 16                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.120  | 6.760  | 690386    | 4.982   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.761  | 10.209 | 12252500  | 86.403  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.210 | 13.585 | 122683903 | 843.979 | 300              | ug/ml |
| Aliphatic C21-C28         | 13.586 | 17.252 | 46342663  | 325.956 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.253 | 22.138 | 5076236   | 39.336  | 600              | ug/ml |
| Aliphatic EPH             | 3.120  | 22.138 | 187045688 | 1300    |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.874 | 11.874 | 8391542   | 46.53   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.318 | 13.318 | 6010945   | 44.47   |                  | ug/ml |
| Aliphatic C9-C28          | 3.120  | 17.252 | 181969452 | 1260    | 1200             | ug/ml |