

## Report of Analysis

|                    |                                |                 |          |
|--------------------|--------------------------------|-----------------|----------|
| Client:            | PSEG                           | Date Collected: | 05/09/25 |
| Project:           | OR-636 Oradell and New Milford | Date Received:  | 05/09/25 |
| Client Sample ID:  | OR-636-41                      | SDG No.:        | Q2007    |
| Lab Sample ID:     | Q2007-28                       | Matrix:         | Solid    |
| Analytical Method: | NJEPH                          | % Solid:        | 90.3     |
| Sample Wt/Vol:     | 30.04                          | Units:          | g        |
| Soil Aliquot Vol:  |                                | Final Vol:      | 2000 uL  |
| Prep Method :      |                                | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 05/13/25 09:35 | 05/13/25 19:43  | PB167974      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 1.51  | J         | 1        | 1.31 | 2.21       | mg/kg             | FE053799.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 3.16  | J         | 1        | 1.01 | 4.43       | mg/kg             | FE053799.D |
| Total AliphaticEPH | Total AliphaticEPH | 4.67  | J         |          | 2.32 | 6.64       | mg/kg             |            |
| Total EPH          | Total EPH          | 4.67  | J         |          | 2.32 | 6.64       | 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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| Project:           | OR-636 Oradell and New Milford | Date Received:  | 05/09/25             |
| Client Sample ID:  | OR-636-41                      | SDG No.:        | Q2007                |
| Lab Sample ID:     | Q2007-28                       | Matrix:         | Solid                |
| Analytical Method: | NJEPH                          | % Solid:        | 90.3                 |
| Sample Wt/Vol:     | 30.04      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 |
| FE053799.D | 1         | 05/13/25    | 05/13/25        | PB167974      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 3.16  | J         | 1.01     | 4.43       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 1.51  | J         | 1.31     | 2.21       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 39.3  |           | 40 - 140 | 79%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 37.8  |           | 40 - 140 | 76%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q2007-28   | Acq On:            | 13 May 2025 19:43 |
| Client Sample ID: | OR-636-41  | Operator:          | YP\AJ             |
| Data file:        | FE053799.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          | 3.103  | 6.744  | 228038   | 1.646  | 300              | ug/ml |
| Aliphatic C12-C16         | 6.745  | 10.192 | 508589   | 3.587  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.193 | 13.566 | 5711857  | 39.294 | 300              | ug/ml |
| Aliphatic C21-C28         | 13.567 | 17.233 | 786203   | 5.53   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.234 | 22.115 | 2647633  | 20.516 | 600              | ug/ml |
| Aliphatic EPH             | 3.103  | 22.115 | 9882320  | 70.572 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.853 | 11.853 | 6818976  | 37.81  |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.297 | 13.297 | 5314336  | 39.31  |                  | ug/ml |
| Aliphatic C9-C28          | 3.103  | 17.233 | 7234687  | 50.057 | 1200             | ug/ml |