

## Report of Analysis

|                    |                                              |                 |              |
|--------------------|----------------------------------------------|-----------------|--------------|
| Client:            | PSEG                                         | Date Collected: | 01/07/25     |
| Project:           | Oradell Gas and Appliance Service MA00006789 | Date Received:  | 01/07/25     |
| Client Sample ID:  | OR-03-010725                                 | SDG No.:        | Q1028        |
| Lab Sample ID:     | Q1028-01                                     | Matrix:         | Solid        |
| Analytical Method: | NJEPH                                        | % Solid:        | 93.9         |
| Sample Wt/Vol:     | 30.04      Units: g                          | Final Vol:      | 2000      uL |
| Soil Aliquot Vol:  | uL                                           | Test:           | EPH_NF       |
| Prep Method :      |                                              |                 |              |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 01/08/25 08:06 | 01/09/25 8:48   | PB165974      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 89.3  |           | 5        | 9.57 | 10.6       | mg/kg             | FE051885.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 56.1  |           | 1        | 1.83 | 4.25       | mg/kg             | FE051872.D |
| Total AliphaticEPH | Total AliphaticEPH | 145   |           |          | 11.4 | 14.8       | mg/kg             |            |
| Total EPH          | Total EPH          | 145   |           |          | 11.4 | 14.8       | 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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| Client Sample ID:  | OR-03-010725                                 | SDG No.:        | Q1028                |
| Lab Sample ID:     | Q1028-01                                     | Matrix:         | Solid                |
| Analytical Method: | NJEPH                                        | % Solid:        | 93.9                 |
| 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 |
| FE051872.D | 1         | 01/08/25    | 01/08/25        | PB165974      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 56.1  |           | 1.83     | 4.25       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 90.3  | E         | 1.91     | 2.13       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 45.6  |           | 40 - 140 | 91%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 22.9  |           | 40 - 140 | 46%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |              |                    |                   |
|-------------------|--------------|--------------------|-------------------|
| Lab Sample ID:    | Q1028-01     | Acq On:            | 08 Jan 2025 17:46 |
| Client Sample ID: | OR-03-010725 | Operator:          | YP\AJ             |
| Data file:        | FE051872.D   | Misc:              |                   |
| Instrument:       | FID_E        | ALS Vial:          | 21                |
| Dilution Factor:  | 1            | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.428  | 7.024  | 1821572   | 15.994  | 300              | ug/ml |
| Aliphatic C12-C16         | 7.025  | 10.452 | 10887793  | 87.851  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.453 | 13.814 | 49402675  | 374.2   | 300              | ug/ml |
| Aliphatic C21-C28         | 13.815 | 17.470 | 41014251  | 313.102 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.471 | 22.484 | 139028852 | 1270    | 600              | ug/ml |
| Aliphatic EPH             | 3.428  | 22.484 | 242155143 | 2060    |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 12.145 | 12.145 | 3316516   | 22.88   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.570 | 13.570 | 5240066   | 45.6    |                  | ug/ml |
| Aliphatic C9-C28          | 3.428  | 17.470 | 103126291 | 791.147 | 1200             | ug/ml |