

## Report of Analysis

|                    |                                             |                 |                              |
|--------------------|---------------------------------------------|-----------------|------------------------------|
| Client:            | PSEG                                        | Date Collected: | 04/01/25                     |
| Project:           | Orange Gas and Appliance Service MA00006789 | Date Received:  | 04/01/25                     |
| Client Sample ID:  | EO-03-040125-E2                             | SDG No.:        | Q1686                        |
| Lab Sample ID:     | Q1686-02                                    | Matrix:         | Solid                        |
| Analytical Method: | NJEPH                                       | % Solid:        | 90.3                         |
| Sample Wt/Vol:     | 30.05      Units:    g                      | Final Vol:      | 2000                      uL |
| Soil Aliquot Vol:  | uL                                          | Test:           | EPH_NF                       |
| Prep Method :      |                                             |                 |                              |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 04/02/25 08:00 | 04/02/25 20:49  | PB167427      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 31.8  |           | 1        | 1.30 | 2.21       | mg/kg             | FE053144.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 11.2  |           | 1        | 1.01 | 4.43       | mg/kg             | FE053144.D |
| Total AliphaticEPH | Total AliphaticEPH | 43.0  |           |          | 2.31 | 6.64       | mg/kg             |            |
| Total EPH          | Total EPH          | 43.0  |           |          | 2.31 | 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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| Client Sample ID:  | EO-03-040125-E2                             | SDG No.:        | Q1686                |
| Lab Sample ID:     | Q1686-02                                    | Matrix:         | Solid                |
| Analytical Method: | NJEPH                                       | % Solid:        | 90.3                 |
| 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 |
| FE053144.D | 1         | 04/02/25    | 04/02/25        | PB167427      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 11.2  |           | 1.01     | 4.43       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 31.8  |           | 1.30     | 2.21       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 35.5  |           | 40 - 140 | 71%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 33.3  |           | 40 - 140 | 67%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |                 |                    |                   |
|-------------------|-----------------|--------------------|-------------------|
| Lab Sample ID:    | Q1686-02        | Acq On:            | 02 Apr 2025 20:49 |
| Client Sample ID: | EO-03-040125-E2 | Operator:          | YP\AJ             |
| Data file:        | FE053144.D      | Misc:              |                   |
| Instrument:       | FID_E           | ALS Vial:          | 22                |
| Dilution Factor:  | 1               | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.137  | 6.779  | 1268155  | 8.128   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.780  | 10.229 | 1577142  | 10.266  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.230 | 13.604 | 5418943  | 37.544  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.605 | 17.273 | 12822595 | 95.444  | 400              | ug/ml |
| Aliphatic C28-C40         | 17.274 | 22.174 | 53559338 | 431.038 | 600              | ug/ml |
| Aliphatic EPH             | 3.137  | 22.174 | 74646173 | 582.419 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.892 | 11.892 | 5426706  | 33.32   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.336 | 13.336 | 4261777  | 35.5    |                  | ug/ml |
| Aliphatic C9-C28          | 3.137  | 17.273 | 21086835 | 151.382 | 1200             | ug/ml |