

## Report of Analysis

|                    |                         |                 |          |
|--------------------|-------------------------|-----------------|----------|
| Client:            | PSEG                    | Date Collected: | 11/08/24 |
| Project:           | Saddle Brook Substation | Date Received:  | 11/08/24 |
| Client Sample ID:  | TP-1                    | SDG No.:        | P4796    |
| Lab Sample ID:     | P4796-02                | Matrix:         | Solid    |
| Analytical Method: | NJEPH                   | % Solid:        | 95.3     |
| Sample Wt/Vol:     | 30.08                   | Units:          | g        |
| Soil Aliquot Vol:  |                         | Final Vol:      | 2000 uL  |
| Prep Method :      |                         | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 11/10/24 08:35 | 11/11/24 15:42  | PB164844      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 7.32  |           | 1        | 1.88 | 2.09       | mg/kg             | FE051149.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 1.80  | U         | 1        | 1.80 | 4.20       | mg/kg             | FE051149.D |
| Total AliphaticEPH | Total AliphaticEPH | 7.32  |           |          | 3.68 | 6.29       | mg/kg             |            |
| Total EPH          | Total EPH          | 7.32  |           |          | 3.68 | 6.29       | 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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|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE051149.D | 1         | 11/10/24    | 11/11/24        | PB164844      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 0.000 | U         | 1.80     | 4.20       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 7.32  |           | 1.88     | 2.09       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 35.1  |           | 40 - 140 | 70%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 35.4  |           | 40 - 140 | 71%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | P4796-02   | Acq On:            | 11 Nov 2024 15:42 |
| Client Sample ID: | TP-1       | Operator:          | YP\AJ             |
| Data file:        | FE051149.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 15                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic EPH             | 3.140  | 22.059 | 17292133 | 132.581 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.854 | 11.854 | 5316213  | 35.42   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.288 | 13.288 | 3988693  | 35.13   |                  | ug/ml |
| Aliphatic C9-C12          | 3.140  | 6.760  | 265323   | 1.896   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.761  | 10.193 | 658997   | 4.686   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.194 | 13.553 | 1296030  | 9.407   | 300              | ug/ml |
| Aliphatic C21-C28         | 13.554 | 17.209 | 1565343  | 11.686  | 400              | ug/ml |
| Aliphatic C28-C40         | 17.210 | 22.059 | 13506440 | 104.906 | 600              | ug/ml |
| Aliphatic C9-C28          | 3.140  | 17.209 | 3785693  | 27.675  | 1200             | ug/ml |