

## Report of Analysis

|                    |              |                 |          |
|--------------------|--------------|-----------------|----------|
| Client:            | PSEG         | Date Collected: | 05/07/25 |
| Project:           | PSEG Keasby  | Date Received:  | 05/07/25 |
| Client Sample ID:  | SUB-WC-2-EPH | SDG No.:        | Q1972    |
| Lab Sample ID:     | Q1972-18     | Matrix:         | Solid    |
| Analytical Method: | NJEPH        | % Solid:        | 87.5     |
| 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 |
| 05/08/25 09:45 | 05/08/25 20:31  | PB167906      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 3.85  |           | 1        | 1.34 | 2.28       | mg/kg             | FE053721.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 1.61  | J         | 1        | 1.04 | 4.56       | mg/kg             | FE053721.D |
| Total AliphaticEPH | Total AliphaticEPH | 5.46  | J         |          | 2.38 | 6.84       | mg/kg             |            |
| Total EPH          | Total EPH          | 5.46  | J         |          | 2.38 | 6.84       | 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:           | PSEG Keasby            | Date Received:  | 05/07/25             |
| Client Sample ID:  | SUB-WC-2-EPH           | SDG No.:        | Q1972                |
| Lab Sample ID:     | Q1972-18               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 87.5                 |
| Sample Wt/Vol:     | 30.08      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 |
| FE053721.D | 1         | 05/08/25    | 05/08/25        | PB167906      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 1.61  | J         | 1.04     | 4.56       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 3.85  |           | 1.34     | 2.28       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 25.5  |           | 40 - 140 | 51%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 24.4  |           | 40 - 140 | 49%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |              |                    |                   |
|-------------------|--------------|--------------------|-------------------|
| Lab Sample ID:    | Q1972-18     | Acq On:            | 08 May 2025 20:31 |
| Client Sample ID: | SUB-WC-2-EPH | Operator:          | YP\AJ             |
| Data file:        | FE053721.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          | 3.109  | 6.750  | 446893   | 3.225  | 300              | ug/ml |
| Aliphatic C12-C16         | 6.751  | 10.198 | 817220   | 5.763  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.199 | 13.573 | 365172   | 2.512  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.574 | 17.241 | 1379163  | 9.7    | 400              | ug/ml |
| Aliphatic C28-C40         | 17.242 | 22.125 | 6546851  | 50.731 | 600              | ug/ml |
| Aliphatic EPH             | 3.109  | 22.125 | 9555299  | 71.932 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.858 | 11.858 | 4404600  | 24.42  |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.304 | 13.304 | 3452417  | 25.54  |                  | ug/ml |
| Aliphatic C9-C28          | 3.109  | 17.241 | 3008448  | 21.2   | 1200             | ug/ml |