

## Report of Analysis

|                    |                    |                 |          |
|--------------------|--------------------|-----------------|----------|
| Client:            | PSEG               | Date Collected: | 06/02/25 |
| Project:           | BU-703 Willingboro | Date Received:  | 06/04/25 |
| Client Sample ID:  | BU-703-11B         | SDG No.:        | Q2207    |
| Lab Sample ID:     | Q2207-33           | Matrix:         | Solid    |
| Analytical Method: | NJEPH              | % Solid:        | 88.8     |
| Sample Wt/Vol:     | 30.03              | Units:          | g        |
| Soil Aliquot Vol:  |                    | Final Vol:      | 2000 uL  |
| Prep Method :      |                    | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 06/05/25 10:10 | 06/05/25 20:48  | PB168301      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 4.66  |           | 1        | 1.33 | 2.25       | mg/kg             | FE054203.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 5.87  |           | 1        | 1.02 | 4.51       | mg/kg             | FE054203.D |
| Total AliphaticEPH | Total AliphaticEPH | 10.5  |           |          | 2.35 | 6.76       | mg/kg             |            |
| Total EPH          | Total EPH          | 10.5  |           |          | 2.35 | 6.76       | 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:  | BU-703-11B             | SDG No.:        | Q2207                |
| Lab Sample ID:     | Q2207-33               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 88.8                 |
| Sample Wt/Vol:     | 30.03      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 |
| FE054203.D | 1         | 06/05/25    | 06/05/25        | PB168301      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 5.87  |           | 1.02     | 4.51       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 4.66  |           | 1.33     | 2.25       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 54.5  |           | 40 - 140 | 109%       | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 48.0  |           | 40 - 140 | 96%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q2207-33   | Acq On:            | 05 Jun 2025 20:48 |
| Client Sample ID: | BU-703-11B | Operator:          | YP\AJ             |
| Data file:        | FE054203.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 20                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.084  | 6.729  | 217678   | 1.606   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.730  | 10.176 | 934602   | 6.926   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.177 | 13.550 | 8330150  | 63.15   | 300              | ug/ml |
| Aliphatic C21-C28         | 13.551 | 17.218 | 1008167  | 8.119   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.219 | 22.088 | 7169524  | 62.111  | 600              | ug/ml |
| Aliphatic EPH             | 3.084  | 22.088 | 17660121 | 141.911 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.838 | 11.838 | 7797812  | 47.98   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.282 | 13.282 | 6458343  | 54.48   |                  | ug/ml |
| Aliphatic C9-C28          | 3.084  | 17.218 | 10490597 | 79.801  | 1200             | ug/ml |