

## Report of Analysis

|                    |                |                 |          |
|--------------------|----------------|-----------------|----------|
| Client:            | PSEG           | Date Collected: | 09/12/25 |
| Project:           | Pennsauken M&R | Date Received:  | 09/12/25 |
| Client Sample ID:  | 12/9C-EPH1     | SDG No.:        | Q3091    |
| Lab Sample ID:     | Q3091-02       | Matrix:         | Solid    |
| Analytical Method: | NJEPH          | % Solid:        | 95.9     |
| Sample Wt/Vol:     | 30.09          | Units:          | g        |
| Soil Aliquot Vol:  |                | Final Vol:      | 2000 uL  |
| Prep Method :      |                | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 09/15/25 08:30 | 09/15/25 15:35  | PB169683      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 6.93  |           | 1        | 1.23 | 2.08       | mg/kg             | FE055829.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 2.20  | J         | 1        | 0.95 | 4.16       | mg/kg             | FE055829.D |
| Total AliphaticEPH | Total AliphaticEPH | 9.13  |           |          | 2.18 | 6.24       | mg/kg             |            |
| Total EPH          | Total EPH          | 9.13  |           |          | 2.18 | 6.24       | 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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| Analytical Method: | NJEPH          | % Solid:        | 95.9     |
| Sample Wt/Vol:     | 30.09          | Units:          | g        |
| Soil Aliquot Vol:  |                | Final Vol:      | 2000 uL  |
| Prep Method :      |                | Test:           | EPH_NF   |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE055829.D | 1         | 09/15/25    | 09/15/25        | PB169683      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 2.20  | J         | 0.95     | 4.16       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 6.93  |           | 1.23     | 2.08       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 38.5  |           | 40 - 140 | 77%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 37.3  |           | 40 - 140 | 75%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q3091-02   | Acq On:            | 15 Sep 2025 15:35 |
| Client Sample ID: | 12/9C-EPH1 | Operator:          | YP\AJ             |
| Data file:        | FE055829.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 15                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.312  | 6.945  | 593133   | 4.619   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.946  | 10.397 | 980881   | 7.261   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.398 | 13.775 | 1237181  | 8.579   | 300              | ug/ml |
| Aliphatic C21-C28         | 13.776 | 17.446 | 1621958  | 11.324  | 400              | ug/ml |
| Aliphatic C28-C40         | 17.447 | 22.458 | 13762281 | 99.93   | 600              | ug/ml |
| Aliphatic EPH             | 3.312  | 22.458 | 18195434 | 131.712 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 12.072 | 12.072 | 6133282  | 37.33   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.509 | 13.509 | 4814000  | 38.5    |                  | ug/ml |
| Aliphatic C9-C28          | 3.312  | 17.446 | 4433153  | 31.783  | 1200             | ug/ml |