

## Report of Analysis

|                    |              |                 |          |
|--------------------|--------------|-----------------|----------|
| Client:            | PSEG         | Date Collected: | 05/23/25 |
| Project:           | Hamilton M&R | Date Received:  | 05/23/25 |
| Client Sample ID:  | EPH-1-B      | SDG No.:        | Q2127    |
| Lab Sample ID:     | Q2127-03     | Matrix:         | Solid    |
| Analytical Method: | NJEPH        | % Solid:        | 89.3     |
| Sample Wt/Vol:     | 30.05        | Units:          | g        |
| Soil Aliquot Vol:  |              |                 | uL       |
| Prep Method :      |              | Final Vol:      | 2000     |
|                    |              | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 05/27/25 08:50 | 05/27/25 16:52  | PB168161      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 16.3  |           | 1        | 1.32 | 2.24       | mg/kg FE054023.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 19.8  |           | 1        | 1.02 | 4.47       | mg/kg FE054023.D  |
| Total AliphaticEPH | Total AliphaticEPH | 36.1  |           |          | 2.34 | 6.71       | mg/kg             |
| Total EPH          | Total EPH          | 36.1  |           |          | 2.34 | 6.71       | 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:           | Hamilton M&R           | Date Received:  | 05/23/25             |
| Client Sample ID:  | EPH-1-B                | SDG No.:        | Q2127                |
| Lab Sample ID:     | Q2127-03               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 89.3                 |
| 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 |
| FE054023.D | 1         | 05/27/25    | 05/27/25        | PB168161      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 19.8  |           | 1.02     | 4.47       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 16.3  |           | 1.32     | 2.24       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 43.6  |           | 40 - 140 | 87%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 37.4  |           | 40 - 140 | 75%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q2127-03   | Acq On:            | 27 May 2025 16:52 |
| Client Sample ID: | EPH-1-B    | Operator:          | YP\AJ             |
| Data file:        | FE054023.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 12                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.094  | 6.741  | 2193814  | 16.183  | 300              | ug/ml |
| Aliphatic C12-C16         | 6.742  | 10.189 | 8572343  | 63.526  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.190 | 13.564 | 11388957 | 86.338  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.565 | 17.234 | 12328230 | 99.28   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.235 | 22.120 | 25260011 | 218.832 | 600              | ug/ml |
| Aliphatic EPH             | 3.094  | 22.120 | 59743355 | 484.16  |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.849 | 11.849 | 6079611  | 37.41   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.294 | 13.294 | 5175238  | 43.65   |                  | ug/ml |
| Aliphatic C9-C28          | 3.094  | 17.234 | 34483344 | 265.327 | 1200             | ug/ml |