

## Report of Analysis

|                    |                                                    |                 |                              |
|--------------------|----------------------------------------------------|-----------------|------------------------------|
| Client:            | PSEG                                               | Date Collected: | 12/02/24                     |
| Project:           | Bergen Point 69kV - 4KV-13KV Conversion Project OP | Date Received:  | 12/02/24                     |
| Client Sample ID:  | OR-640-150                                         | SDG No.:        | P5052                        |
| Lab Sample ID:     | P5052-06                                           | Matrix:         | Solid                        |
| Analytical Method: | NJEPH                                              | % Solid:        | 92.1                         |
| Sample Wt/Vol:     | 30.04      Units:    g                             | Final Vol:      | 2000                      uL |
| Soil Aliquot Vol:  | uL                                                 | Test:           | EPH_NF                       |
| Prep Method :      |                                                    |                 |                              |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 12/03/24 08:10 | 12/03/24 14:14  | PB165336      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 25.7  |           | 1        | 1.95 | 2.17       | mg/kg FE051509.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 6.59  |           | 1        | 1.86 | 4.33       | mg/kg FE051509.D  |
| Total AliphaticEPH | Total AliphaticEPH | 32.3  |           |          | 3.81 | 6.50       | mg/kg             |
| Total EPH          | Total EPH          | 32.3  |           |          | 3.81 | 6.50       | 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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| Lab Sample ID:     | P5052-06                                           | Matrix:         | Solid                |
| Analytical Method: | NJEPH                                              | % Solid:        | 92.1                 |
| Sample Wt/Vol:     | 30.04      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 |
| FE051509.D | 1         | 12/03/24    | 12/03/24        | PB165336      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 6.59  |           | 1.86     | 4.33       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 25.7  |           | 1.95     | 2.17       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 51.5  |           | 40 - 140 | 103%       | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 44.3  |           | 40 - 140 | 89%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | P5052-06   | Acq On:            | 03 Dec 2024 14:14 |
| Client Sample ID: | OR-640-150 | Operator:          | YP\AJ             |
| Data file:        | FE051509.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 14                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.122  | 6.736  | 1413917  | 9.997   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.737  | 10.168 | 1158652  | 8.233   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.169 | 13.526 | 4901631  | 35.238  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.527 | 17.180 | 4926006  | 37.66   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.181 | 22.012 | 38124377 | 355.971 | 600              | ug/ml |
| Aliphatic EPH             | 3.122  | 22.012 | 50524583 | 447.099 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.831 | 11.831 | 6696097  | 44.31   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.264 | 13.264 | 5750152  | 51.45   |                  | ug/ml |
| Aliphatic C9-C28          | 3.122  | 17.180 | 12400206 | 91.128  | 1200             | ug/ml |