284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PSEG | Date Collected: | 04/08/25 |
| Project: | Bergen Point Substation | Date Received: | 04/08/25 |
| Client Sample ID: | TP-4 | SDG No.: | Q1752 |
| Lab Sample ID: | Q1752-05 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 85.9 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 04/09/25 09:51 | 04/09/25 19:43 | PB167528 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 5.84 | | 1 | 1.37 | 2.33 | mg/kg | FE053284.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 2.96 | J | 1 | 1.06 | 4.65 | mg/kg | FE053284.D |
| Total AliphaticEPH | Total AliphaticEPH | 8.80 | | | 2.43 | 6.98 | mg/kg | |
| Total EPH | Total EPH | 8.80 | | | 2.43 | 6.98 | 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: | 85.9 |
| Sample Wt/Vol: | 30.02 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 |
|---|---|---|---|---|
| FE053284.D | 1 | 04/09/25 | 04/09/25 | PB167528 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | | 2.96 | J | 1.06 | 4.65 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 5.84 | | 1.37 | 2.33 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 43.5 | | 40 - 140 | 87% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 41.7 | | 40 - 140 | 83% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q1752-05 | Acq On: | 09 Apr 2025 19:43 |
| Client Sample ID: | TP-4 | Operator: | YP\AJ |
| Data file: | FE053284.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 17 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.135 | 6.774 | 1268269 | 8.128 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.775 | 10.223 | 1500552 | 9.767 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.224 | 13.598 | 1558781 | 10.8 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.599 | 17.267 | 1266307 | 9.426 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.268 | 22.161 | 9363358 | 75.355 | 600 | ug/ml |
| Aliphatic EPH | 3.135 | 22.161 | 14957267 | 113.476 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.888 | 11.888 | 6793690 | 41.71 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.332 | 13.332 | 5226452 | 43.54 | | ug/ml |
| Aliphatic C9-C28 | 3.135 | 17.267 | 5593909 | 38.121 | 1200 | ug/ml |