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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PSEG | Date Collected: | 03/28/25 |
| Project: | NYE Avenue Substation | Date Received: | 03/28/25 |
| Client Sample ID: | TP-10 | SDG No.: | Q1679 |
| Lab Sample ID: | Q1679-01 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 87.1 |
| 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 |
|---|---|---|
| 04/01/25 08:30 | 04/01/25 16:56 | PB167403 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 3.45 | | 1 | 1.35 | 2.29 | mg/kg | FE053097.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 5.01 | | 1 | 1.04 | 4.59 | mg/kg | FE053097.D |
| Total AliphaticEPH | Total AliphaticEPH | 8.46 | | | 2.39 | 6.88 | mg/kg | |
| Total EPH | Total EPH | 8.46 | | | 2.39 | 6.88 | 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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| Client: | PSEG | Date Collected: | 03/28/25 |
| Project: | NYE Avenue Substation | Date Received: | 03/28/25 |
| Client Sample ID: | TP-10 | SDG No.: | Q1679 |
| Lab Sample ID: | Q1679-01 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 87.1 |
| 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 |
|---|---|---|---|---|
| FE053097.D | 1 | 04/01/25 | 04/01/25 | PB167403 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 5.01 | | 1.04 | 4.59 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 3.45 | | 1.35 | 2.29 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 35.3 | | 40 - 140 | 71% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 35.2 | | 40 - 140 | 70% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q1679-01 | Acq On: | 01 Apr 2025 16:56 |
| Client Sample ID: | TP-10 | Operator: | YP\AJ |
| Data file: | FE053097.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 | 3.141 | 6.782 | 1350423 | 8.655 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.783 | 10.232 | 669726 | 4.359 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.233 | 13.609 | 6308300 | 43.705 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.610 | 17.278 | 1182688 | 8.803 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.279 | 22.189 | 5600589 | 45.073 | 600 | ug/ml |
| Aliphatic EPH | 3.141 | 22.189 | 15111726 | 110.595 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.895 | 11.895 | 5736898 | 35.22 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.339 | 13.339 | 4233007 | 35.26 | | ug/ml |
| Aliphatic C9-C28 | 3.141 | 17.278 | 9511137 | 65.522 | 1200 | ug/ml |