

## Report of Analysis

|                    |                                                |                 |                              |
|--------------------|------------------------------------------------|-----------------|------------------------------|
| Client:            | Remington & Vernick Engineers                  | Date Collected: | 04/25/23                     |
| Project:           | 169 Bridgeton Pike Mullica Hill, NJ # 0800X062 | Date Received:  | 04/26/23                     |
| Client Sample ID:  | HL-4                                           | SDG No.:        | O2509                        |
| Lab Sample ID:     | O2509-04                                       | Matrix:         | Solid                        |
| Analytical Method: | NJEPH                                          | % Solid:        | 91.6                         |
| Sample Wt/Vol:     | 30.03      Units:    g                         | Final Vol:      | 2000                      uL |
| Soil Aliquot Vol:  | uL                                             | Test:           | EPH_NF                       |
| Prep Method :      |                                                |                 |                              |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 04/27/23 10:07 | 04/28/23 4:46   | PB152444      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 7.62  |           | 1        | 1.11 | 2.18       | mg/kg             | FE041599.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 1.15  | U         | 1        | 1.15 | 4.36       | mg/kg             | FE041599.D |
| Total AliphaticEPH | Total AliphaticEPH | 7.62  |           |          | 2.26 | 6.54       | mg/kg             |            |
| Total EPH          | Total EPH          | 7.62  |           |          | 2.26 | 6.54       | 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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| Lab Sample ID:     | O2509-04                                       | Matrix:         | Solid    |
| Analytical Method: | NJEPH                                          | % Solid:        | 91.6     |
| Sample Wt/Vol:     | 30.03                                          | Units:          | g        |
| Soil Aliquot Vol:  |                                                | Final Vol:      | 2000 uL  |
| Prep Method :      |                                                | Test:           | EPH_NF   |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE041599.D | 1         | 04/27/23    | 04/28/23        | PB152444      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 0.000 | U         | 1.15     | 4.36       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 7.62  |           | 1.11     | 2.18       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 25.0  |           | 40 - 140 | 50%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 23.9  |           | 40 - 140 | 48%        | SPK: 50 |



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## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | O2509-04   | Acq On:            | 28 Apr 2023 04:46 |
| Client Sample ID: | HL-4       | Operator:          | YP\AJ             |
| Data file:        | FE041599.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 40                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.256  | 6.877  | 430316   | 2.875   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.878  | 10.315 | 499143   | 3.205   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.316 | 13.682 | 631868   | 3.915   | 300              | ug/ml |
| Aliphatic C21-C28         | 13.683 | 17.343 | 1130908  | 7.152   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.344 | 22.280 | 14579076 | 104.806 | 600              | ug/ml |
| Aliphatic EPH             | 3.256  | 22.280 | 17271311 | 121.953 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.983 | 11.983 | 4487556  | 23.92   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.419 | 13.419 | 3537239  | 25.04   |                  | ug/ml |
| Aliphatic C9-C28          | 3.256  | 17.343 | 2692235  | 17.147  | 1200             | ug/ml |