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## **CASE NARRATIVE**

**Earth Engineering Inc.**

**Project Name: Thomas McGoven**

**Project # N/A**

**Order ID # Q2392**

**Test Name: EPH**

### **A. Number of Samples and Date of Receipt:**

2 Solid samples were received on 06/23/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, EPH\_NF, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, TCL+30/TAL and VOC-TCLVOA-10. This data package contains results for EPH.

### **C. Analytical Techniques:**

The analysis were performed on instrument FID\_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. The analyses were performed on instrument FID\_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. The analysis of EPHs was based on method NJEPH and extraction was done based on method 3541.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The MS {Q2392-01MS} with File ID: FC069283.D recoveries met the requirements for all compounds except for aliphatic [n-Nonane (C9) - 38%], [n-Tetracosane (C24) – 34%] due to matrix interference .& aliphatic [Naphthalene (C11.7)- 1%, 2-methylnaphthalene (C12.89)- 1%]these compounds are fractionation compound & The fractionaization of both compounds occurs in aliphatic and aromatic part ,Recovery is failling due to lack of spiking in Alphatic part..

The MS {Q2392-01MS} with File ID: FD049519.D recoveries met the requirements for all compounds except for aromatic [Chrysene (C27.41) - 218%], [Bnezo[k]fluoranthene (C30.14) – 220%], [Dibenz[a,h]anthracene (C30.36) - 221%], [benzo[b]fluoranthene (C30.41) - 208%], due to matrix interference.

The MSD {Q2392-01MSD} with File ID: FC069284.D recoveries met the requirements for all compounds except for aliphatic [n-Nonane (C9) - 39%], [n-Tetracosane (C24) – 34%] due to matrix interference .& aliphatic [Naphthalene (C11.7)- 1%, 2-

methylnaphthalene (C12.89)- 1%]these compounds are fractionation compound & The fractionaization of both compounds occurs in aliphatic and aromatic part ,Recovery is failling due to lack of spiking in Alphatic part..

The MSD {Q2392-01MSD} with File ID: FD049520.D recoveries met the requirements for all compounds except for aromatic [Chrysene (C27.41) - 219%], [Bnezo[k]fluoranthene (C30.14) – 221%], [Dibenz[a,h]anthracene (C30.36) - 222%], [benzo[b]fluoranthene (C30.41) - 209%], due to matrix interference

The RPD met criteria .

The Blank Spike for {PB168603BS} with File ID: FC069279.D met requirements for all samples except for aliphatic [Naphthalene (C11.7)- 0%, 2-methylnaphthalene (C12.89)- 0%] these compounds are fractionation compound & The fractionaization of both compounds occurs in aliphatic and aromatic part ,Recovery is failling due to lack of spiking in Alphatic part.

The Blank Spike Duplicate for {PB168603BSD} with File ID: FC069280.D met requirements for all samples except for aliphatic [Naphthalene (C11.7)- 0%, 2-methylnaphthalene (C12.89)- 0%] these compounds are fractionation compound & The fractionaization of both compounds occurs in aliphatic and aromatic part ,Recovery is failling due to lack of spiking in Alphatic part

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

#### **E. Additional Comments:**

The soil samples results are based on a dry weight basis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature\_\_\_\_\_