CHEMTECH
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CASE NARRATIVE

LaBella Associates P.C.
Project Name: Mackenna Parcels
Project # N/A
Chemtech Project # O3645
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 07/17/2023.
1 Water sample was received on 07/17/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-RCRA, METALS RCRA, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group1 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for SB-10-(0.5-2.0)DL [2-Fluorobiphenyl - 106%], RINSATE-BLANK [Nitrobenzene-d5 - 142%] as per method one surrogate is allowed to fail therefore no corrective action taken.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .

The Blank Spike for {PB154218BS} with File ID: BP016413.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[106%], 4-Nitrophenol[120%], Butylbenzylphthalate[108%] and Hexachloroethane[106%] but no positive hits in associated sample therefore no corrective action taken.

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The Blank Spike Duplicate for {PB154218BSD} with File ID: BP016414.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[104%], 4-Nitrophenol[120%] and Butylbenzylphthalate[108%] but no positive hits in associated sample therefore no corrective action taken.

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

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BF062623.M) for 2,4-Dinitrophenol,this compound is passing on Linear Regression and Benzaldehyde, this compound is passing on Quadratic regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BF072423.M) for 2,4-Dinitrophenol,this compound is passing on Linear Regression and Hexachlorocyclopentadiene, this compound is passing on Quadratic regression.

The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BF080123.M) for 2-Nitrophenol,2-Nitroaniline, 2,6-Dinitrotoluene, 2,4-Dinitrotoluene ,4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and Benzaldehyde, 2,4-Dinitrophenol , these compounds are passing on Quadratic regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BG072823.M) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4-Nitrophenol, these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BM72823.M) for 3-Nitroaniline,4-Nitroaniline,2,4-Dinitrophenol, 2,4-Dinitrotoluene ,Bis(2-ethylhexyl)phthalate, these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BP072723.M) for 2-Nitrophenol,2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and Benzaldehyde, this compound is passing on Quadratic regression.

The Continuous Calibration File ID BF134355.D met the requirements except for 2,2-oxybis(1-Chloropropane) is failing marginally low therefore no corrective action taken.

The Continuous Calibration File ID BG058569.D met the requirements except for 4-Nitroaniline but no positive hits in associated samples therefore no corrective action taken.

The Continuous Calibration File ID BP016411.D met the requirements except for Benzaldehyde but associated QC within limits therefore no corrective action taken.

The Tuning criteria met requirements.

Sample SB-10-(0.5-2.0) was diluted due to high concentration.

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E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

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

The temperature of the samples at the time of receipt was 24.3°C.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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

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_____