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CASE NARRATIVE

RMJ Environomics, Inc.

Project Name: 245 Greenwood Ave

Project # N/A

Chemtech Project # O5252

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 11/03/2023.

B. Parameters

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

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 df. The 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-GG. The analysis of SVOC-TCL BNA -20 was based on method 8270E 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 Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {O5257-05MS} with File ID: BF136162.D recoveries met the requirements for all compounds except for 3-Nitroaniline[60%], 4-Chloroaniline[24%] and Benzo(g,h,i)perylene[54%] these compounds did not meet the NJDKQP criteria but met the in-house criteria also Atrazine[136%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {O5257-05MSD} with File ID: BF136163.D recoveries met the acceptable requirements except for 3-Nitroaniline[63%], 4-Chloroaniline[24%], and Benzo(g,h,i)perylene[60%] these compounds did not meet the NJDKQP criteria but met the in-house criteria also Atrazine[145%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD met criteria .

The Blank Spike for {PB156921BS} with File ID: BF136178.D met requirements for all samples except for 4-Chloroaniline[59%] this compound did not meet the NJDKQP criteria but met the in-house criteria.

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

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BF103023.M) for 2,4-Dinitrophenol , 4,6-Dinitro-2-methylphenol, Benzo(g,h,i)perylene , these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BF110723.M) for 2,4-Dinitrophenol,4,6-Dinitro-2-methylphenol,these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BM103023.M) for 2-Nitrophenol ,Hexachlorocyclopentadiene ,2-Nitroaniline, 3-Nitroaniline , 2,4-Dinitrophenol,4-Nitrophenol, 2,4-Dinitrotoluene, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, Dibenzo(a,h)anthracene, these compounds are passing on Linear Regression

The Continuous Calibration File ID BM042685.D met the requirements except for 4-Bromophenyl-phenylether, 4-Chlorophenyl-phenylether, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, n-Nitroso-di-n-propylamine, 2,4,6-Tribromophenol and Terphenyl-d14 but no positive hits in associated sample therefore no corrective action taken.

The Tuning criteria met requirements.
Samples WASTE was diluted viscous and dirty matrix.

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.

As per special requirement for this project form-1 are reported in mg/kg.

This data package has been revised as Unit Changed.

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.



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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_____