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CASE NARRATIVE

Ardmore Chemical
Project Name: PVSC Monthly 2025
Project # N/A
Chemtech Project # Q1456
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
2 Water samples were received on 02/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: BOD5, Cyanide, Mercury, Metals Group2, Metals ICP-Group, SVOCMS Group1, TSS and VOC-PP. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
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-GGAThe analysis of SVOCMS Group1 was based on method 625.1 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 EFF-WASTE WATER [2-Fluorophenol - 47%, Phenol-d6 - 29%], surrogates failed in the sample EFF-WASTE WATER due to matrix interference therefore no corrective action was taken.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The RPD met criteria.
The Blank Spike for {PB166933BS} with File ID: BM049678.D met requirements for all samples except for 4,6-Dinitro-2-methylphenol[131%], Hexachlorocyclopentadiene [290%]. The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank Spike Duplicate for {PB166933BSD} with File ID: BM049679.D met requirements for all samples except for Hexachlorocyclopentadiene[280%]. The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank analysis did not indicate the presence of lab contamination.
The % RSD is greater than 20% in the Initial Calibration (8270-BM020525.M) for Pentachlorophenol this compound is passing on Linear Regression and 2-Nitrophenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene,4,6-Dinitro-2-methylphenol these are passing on Quadratic regression.

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The Continuous Calibration File ID BM049675.D met the requirements except for 2,4,6-Trichlorophenol,2,4-Dinitrophenol,2,6-Dinitrotoluene,2-Nitrophenol,3,3-dichlorobenzidine,4,6-Dinitro-2-methylphenol,Benzidine,Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene,Hexachlorocyclopentadiene and Indeno(1,2,3-cd)pyrene .The associate samples have no positive hit for these compounds therefore no corrective action was required.
The Tuning criteria met requirements.

E. Additional Comments:

As per method MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead.

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_____