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CASE NARRATIVE

Ardmore Chemical

Project Name: PVSC Monthly 2025

Project # N/A

Order ID # Q3385

**Test Name: VOC-PP,SVOCMS Group1,Mercury,Metals
Group3,BOD5,Cyanide,TSS**

A. Number of Samples and Date of Receipt:

6 Water samples were received on 10/17/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOC-PP,SVOCMS Group1,Mercury,Metals Group3,BOD5,Cyanide,TSS. This data package contains results for VOC-PP(624.1),SVOCMS Group1(625.1),Mercury(245.1),Metals Group3(200.7),BOD5(SM5210 B),Cyanide(SM4500-CN C,E),TSS(SM2540 D).

C. Analytical Techniques:

VOC-PP : The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-PP was based on method 624.1.

SVOCMS Group1 : 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 analysis of SVOCMS Group1 was based on method 625.1 and extraction was done based on method 3510.

Mercury,Metals Group3 : The analysis and digestion of Metals Group3 was based on 200.7 and The analysis and digestion of Mercury was based on 245.1.

Wetchem : The analysis of BOD5,Cyanide,TSS was based on method SM2540 D,SM4500-CN C,E,SM5210 B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except following

SVOCMS Group1 : EFF-WW [2-Fluorophenol - 59%, Phenol-d6 - 43%], EFF-WWMS [2-Fluorophenol - 59%, Phenol-d6 - 42%], EFF-WWMSD [2-Fluorophenol - 59% and Phenol-d6 - 43%], 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 MS recoveries met the requirements for all compounds.



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The MSD recoveries met the acceptable requirements.

The RPD were met for all analysis except following

VOC-PP : The RPD for {Q3385-03MSD} with File ID: VN088069.D met criteria except for Bromomethane[21%], Chloroethane[22%], due to difference in results of MS and MSD.

SVOCMS Group1 : The RPD for {Q3385-06MSD} with File ID: BF144081.D met criteria except for bis(2-Ethylhexyl)phthalate[24%], due to difference in results of MS and MSD.

The Blank Spike met requirements for all compounds except following

SVOCMS Group1 : The Blank Spike for {PB170210BS} with File ID: BF144077.D met requirements for all compounds except for Benzidine[8%], marginally low, Hexachlorocyclopentadiene[140%], marginally high therefore no corrective action was taken.

The Blank Spike Duplicate met requirements for all compounds

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

The Duplicate analysis met criteria for all samples.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

SEMI-VOA : The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Mercury, Metals Group3 : LLCCV & LLICV are not required for 200.7 method.

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_____