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CASE NARRATIVE

Remington & Vernick
Project Name: Saddler Property
Project # N/A
Order ID # Q3743
Test Name: VOC-SIM,VOC-TCLVOA-10,SVOC-TCL BNA -20,Pesticide-TCL,Mercury,Metals ICP-TAL,Cyanide

A. Number of Samples and Date of Receipt:
5 Water samples were received on 11/26/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-SIM,VOC-TCLVOA-10,SVOC-TCL BNA -20,Pesticide-TCL,Mercury,Metals ICP-TAL,Cyanide. This data package contains results for VOC-SIM(SFAM_VOCSIM),VOC-TCLVOA-10(8260D),SVOC-TCL BNA -20(8270E),Pesticide-TCL(608.3,8081B),Mercury(7470A),Metals ICP-TAL(6020B),Cyanide(9012B).

C. Analytical Techniques:
VOC-TCLVOA-10 : 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-TCLVOA-10 was based on method 8260-Low.

VOC-SIM : 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 performed on instrument MSVOA_V were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOC-SIM was based on method SFAM_VOCSIM.

SVOC-TCL BNA -20 : The 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-GGA. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

Pesticide-TCL : The analysis was performed on instrument ECD_L. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of Pesticide-TCLs was based on method 608.3,8081B and extraction was done based on method 3510.

PCB : The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear

column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 608.3 and extraction was done based on method 3510.

Mercury,Metals ICP-TAL : The analysis of Metals ICP-TAL was based on method 6020B, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

Wetchem : The analysis of Cyanide was based on method 9012B and extraction was done based on method 8015B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis except following
Pesticide-TCL : TW-1125-2 [Decachlorobiphenyl(2)179%]AS per method one surrogate allowed to fail to meet the criteria per column. No further corrective action was taken.

PCB : TW-1125-2 [Decachlorobiphenyl(2)49%]AS per method one surrogate allowed to fail to meet the criteria per column. No further 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 except following
Mercury,Metals ICP-TAL : The Matrix Spike (TW-1125-1MS) analysis met criteria for all compounds except for Mercury due to Sample Matrix interference. The Matrix Spike (TW-1125-2MS) analysis met criteria for all compounds except for Calcium and Silver due to Chemical Interference during Digestion Process.

Wetchem : The Matrix Spike (TW-1125-2MS) analysis met criteria for all compounds except for Cyanide due to Sample matrix interference.

The MSD recoveries met the requirements for all compounds except following
Mercury,Metals ICP-TAL : The Matrix Spike Duplicate (TW-1125-1MSD) analysis met criteria for all compounds except for Mercury due to Sample matrix interference. The Matrix Spike Duplicate (TW-1125-2MSD) analysis met criteria for all compounds except for Silver due to Chemical Interference during Digestion Process.

Wetchem : The Matrix Spike Duplicate (TW-1125-2MSD) analysis met criteria for all compounds except for Cyanide due to Sample matrix interference.

The RPD were met for all analysis except following

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Pesticide-TCL : The RPD for {PB170784BSD} with File ID: PL097765.D met criteria except for [Endosulfan II(1)-26%], [gamma-BHC (Lindane)(1)-22%] ,[Heptachlor epoxide(2)-22%] due to difference in results of BS-BSD.

The Blank Spike met requirements for all compounds. 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 except following

Pesticide-TCL : The % RSD is greater than 20% in the Initial Calibration method (PL112525.M) for Endrin aldehyde this compound is passing on Linear Regression.

The Continuous Calibration met the requirements except following
VOC-TCLVOA-10 : The Continuous Calibration File ID VN088370.D met the requirements except for Acetone is failing marginally low and Bromoform is failing high but no positive hit in associate sample therefore no corrective action taken.

PCB : The Continuous Calibration File ID PO115536.D met the requirements except for Aroclor-1016(Peak-04) is failing in 2nd column however it is passing in 1st column therefore no corrective action taken.
The Continuous Calibration File ID PO115565.D met the requirements except for Aroclor-1260(Peak-03),Aroclor-1260(Peak-04),Aroclor-1260(Peak-05) is failing in 2nd column however it is passing in 1st column therefore no corrective action taken.

The Tuning criteria met requirements.

Mercury,Metals ICP-TAL : Sample TW-1125-1 was diluted due to high concentrations for Mercury.

The Duplicate analysis met criteria for all samples.
The Serial Dilution met criteria for all compounds except following
Mercury,Metals ICP-TAL : The Serial Dilution (TW-1125-1L) met criteria for all compounds except for Mercury due to sample matrix Interference.

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 ICP-TAL : The Post Digest Spike (TW-1125-1A) analysis met criteria for all compounds except for Mercury due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

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The Post Digest Spike (TW-1125-2A) analysis met criteria for all compounds except for Silver due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

In analytical Sequence LB138105, The Concentration outside limit for CCB03 of Selenium but, no any sample associated under this CCB.

PCB : 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.

Pesticide-TCL : 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

SVOC-TCL BNA -20 : Sample #TW-1125-1 was received with limited volume.

VOC-TCLVOA-10 : Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

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_____