



284 Sheffield Street, Mountainside, NJ 7092, Phone: 908 789 8900, Fax: 908 789 8922

## **CASE NARRATIVE**

**Remington & Vernick**

**Project Name: Saddler Property**

**Project # N/A**

**Order ID # Q3719**

**Test Name: VOC-TCLVOA-10,SVOC-TCL BNA -20,EPH\_NF,PCB,Pesticide-TCL,Mercury,Metals ICP-TAL,Cyanide**

### **A. Number of Samples and Date of Receipt:**

14 Solid samples were received on 11/25/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10,SVOC-TCL BNA -20,EPH\_NF,PCB,Pesticide-TCL,Mercury,Metals ICP-TAL,Cyanide. This data package contains results for VOC-TCLVOA-10(8260D),SVOC-TCL BNA -20(8270E),EPH\_NF(NJEPH),PCB(8082A),Pesticide-TCL(8081B),Mercury(7471B),Metals ICP-TAL(6010D),Cyanide(9012B).

### **C. Analytical Techniques:**

VOC-TCLVOA-10 : The analysis performed on instrument MSVOA\_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis performed on instrument MSVOA\_Y 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 8260D.

SVOC-TCL BNA -20 : 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\_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 3541.

Pesticide-TCL : The analysis was performed on instrument ECD\_D. 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 8081B and extraction was done based on method 3541.

PCB : The analyses were performed on instrument GCECD\_Q.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 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



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column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25  $\mu$ m; Catalogue # 7HM-G017-11. The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

EPH\_NF : The analysis were performed on instrument FID\_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18  $\mu$ m df, catalog 10224. The analysis of EPH\_NFs was based on method NJEPH and extraction was done based on method 3541.

Mercury, Metals ICP-TAL : The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

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 VOC-TCLVOA-10 : SB-1125-15ARE [1,2-Dichloroethane-d4 - 282% and Dibromofluoromethane - 155%] sample was reanalyzed to confirm the failure and reported.

The Surrogate recoveries were met for all analysis except following EPH\_NF :

SB-1125-12A [1-chlorooctadecane (SURR)-35%],  
SB-1125-12ARE [1-chlorooctadecane (SURR)- 36%],  
SB-1125-12B [1-chlorooctadecane (SURR)- 39%],  
SB-1125-12BRE [1-chlorooctadecane (SURR)- 38%],  
SB-1125-16B [1-chlorooctadecane (SURR)- 36%],  
SB-1125-16BRE [1-chlorooctadecane (SURR)- 35%],  
SB-1125-17A [1-chlorooctadecane (SURR)- 38%],  
SB-1125-17ARE [1-chlorooctadecane (SURR)- 38%],  
SB-1125-17B [1-chlorooctadecane (SURR)- 38%],  
SB-1125-17BRE [1-chlorooctadecane (SURR)- 37%]. Affected samples reanalyzed to confirms results, Original and reanalysis both are reported.

The Internal Standards Areas were met for all analysis except following VOC-TCLVOA-10 : SB-1125-15A, SB-1125-15ARE samples were reanalyzed to confirm the failure and reported.

The Internal Standards Areas were met for all analysis except following SVOC-TCL BNA -20 : SB-1125-17A, due to matrix interference and the viscous matrix. Therefor no furhter corrective action was taken.



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The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds except following  
EPH\_NF : The MS {Q3714-01MS} with File ID: FE057051.D recoveries met the requirements for all compounds except for Aliphatic [n-Nonane (C9))- 39%], due to matrix interference.

Mercury, Metals ICP-TAL : The Matrix Spike (SB-1125-17BMS) analysis met criteria for all compounds except for Antimony, Chromium, Potassium, Sodium and Vanadium due to Chemical Interference during Digestion process.

The MSD recoveries met the requirements for all compounds except following  
EPH\_NF : The MSD {Q3714-01MSD} with File ID: FE057052.D recoveries met the requirements for all compounds except for Aliphatic [n-Nonane (C9))- 39%] and [n-Tetratriacontane (C34)- 37%] due to matrix interference.

Mercury, Metals ICP-TAL : The Matrix Spike Duplicate (SB-1125-17BMSD) analysis met criteria for all compounds except for Antimony, Chromium, Potassium, Sodium and Vanadium due to Chemical Interference during Digestion process.

The RPD recoveries met criteria.

The Blank Spike met requirements for all compounds except following  
VOC-TCLVOA-10 : The Blank Spike for {VW1126SBS01} with File ID: VW032538.D met requirements for all compounds except for 1,1,2-Trichlorotrifluoroethane [125%] is failing high but no positive hit in associate sample therefore no corrective action 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 except following  
SVOC-TCL BNA -20 : The %RSD is greater than 20% in the Method 8270-BF110525.M for Hexachlorocyclopentadiene is passing on Quadratic regression.

The Continuous Calibration met the requirements except following  
VOC-TCLVOA-10 : The Continuous Calibration File ID VW032536.D met the requirements except for 1,1,2-Trichlorotrifluoroethane, 1,2-Dichloroethane, Carbon Tetrachloride and Methyl Acetate are failing high but no positive hit in associate sample therefore no corrective action taken.



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The Continuous Calibration File ID VY023829.D met the requirements except for 2-Hexanone is failing high but no positive hit in associate sample therefore no corrective action taken..

SVOC-TCL BNA -20 : The Continuous Calibration File ID BF144382.D met the requirements except for Benzaldehyde. Associated samples does not have hit for this compound, Therefor no furhter corrective action was taken.

The Continuous Calibration File ID BF144398.D met the requirements except for Benzaldehyde. Associated samples does not have hit for this compound, Therefor no furhter corrective action was taken.

Pesticide-TCL : The Continuous Calibration File ID PD091399.D met the requirements except for Endrin is failing in 2nd column. But associated samples have no positive hit for this compound therefore no corrective action was taken.

PCB : The Continuous Calibration File ID PO1153451.D met the requirements except for Tetrachloro-m-xylene is failing in 1st column, which is not associated with reporting list, So no corrective action was taken.

The Tuning criteria met requirements.

EPH\_NF : Sample SB-1125-10A was diluted due to high concentration.

The Duplicate analysis met criteria for all samples.  
The Serial Dilution met the acceptable requirements.

**E. Additional Comments:**

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

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 (SB-1125-17BA) analysis met criteria for all compounds except for Sodium 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.

Pesticide-TCL : Sample SB-1125-10B was reported with J flag on form 1 for gamma-Chlordane based on reporting criteria of high concentration from both column. Now for other column compound detection is below MDL therefore it is not detecting on form 10.

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.



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Trip Blank was not provided with this set of samples.

**F. Manual Integration Comments:**

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

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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\_\_\_\_\_