



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

## **CASE NARRATIVE**

### **Kleinfelder**

**Project Name: Tanner G. Duckrey Public School**

**Project # N/A**

**Order ID # Q3155**

**Test Name: VOCMS Group1,VOC-TCLVOA-10,SVOCMS Group1,PCB Group1,PESTICIDE Group1,Mercury,Ammonia,Anions Group1,Hexavalent Chromium,Trivalent Chromium**

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

3 Solid samples were received on 09/19/2025.

1 Water sample was received on 09/19/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1,VOC-TCLVOA-10,SVOCMS Group1,PCB Group1,PESTICIDE Group1,Mercury,Ammonia,Anions Group1,Hexavalent Chromium,Trivalent Chromium. This data package contains results for VOCMS Group1(8260D),VOC-TCLVOA-10(8260D),SVOCMS Group1(8270E),PCB Group1(8082A),PESTICIDE Group1(8081B),Mercury(7471B),Ammonia(SM4500-NH3),Anions Group1(9056A),Hexavalent Chromium(7196A),Trivalent Chromium(6010D).

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

VOCMS Group1 : 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 of VOCMS Group1 was based on method 8260D.

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 8260D.

SVOCMS Group1 : The samples were analyzed on instrument BNA\_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. 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 SVOCMS Group1 was based on method 8270E and extraction was done based on method 3541.

PCB Group1 : 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



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

ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5  $\mu$ m df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25  $\mu$ m; Catalogue # 7HM-G017-11. The analysis of PCB Group1s was based on method 8082A and extraction was done based on method 3541.

PESTICIDE Group1 : The analysis was performed on instrument ECD\_L. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5  $\mu$ m df,; Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25  $\mu$ m df, Catalog #: 7HMG017- 11. The analysis of PESTICIDE Group1s was based on method 8081B and extraction was done based on method 3541.

Mercury, Metals ICP-Group1 : The analysis of Metals ICP-Group1 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 Ammonia, Anions Group1, Hexavalent Chromium, Trivalent Chromium was based on method 6010D, 7196A, 9056A, SM4500-NH3 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.

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-Group1 : The Matrix Spike (20-DEAD-1MS) analysis met criteria for all compounds except for Antimony, Boron and Lead due to Chemical Interference during Digestion Process.

The MSD recoveries met the requirements for all compounds except following

Mercury, Metals ICP-Group1 : The Matrix Spike Duplicate (20-DEAD-1MSD) analysis met criteria for all compounds except for Antimony, Copper, Lead and Vanadium due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (VNJ-255MSD) analysis met criteria for all compounds except for Mercury due to sample matrix interference.

The RPD recoveries met criteria.

The Blank Spike met requirements for all compounds except following

The Blank Spike Duplicate met requirements for all compounds except following

VOC-TCLVOA-10 : The Blank Spike Duplicate for {VN0924WBSD01} with File ID: VN087937.D met requirements for all compounds except for 1,2-Dibromo-3-Chloropropane[116%], 1,3-Dichlorobenzene[110%] and 1,4-Dichlorobenzene[108%] are failing high but no positive hit in associate sample therefore no corrective action taken.



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

The Blank analysis did not indicate the presence of lab contamination.  
The Initial Calibration met the requirements.

The Continuous Calibration met the requirements except following except following  
VOC-TCLVOA-10 : The Continuous Calibration File ID VN087933.D met the requirements except for 2-Butanone,2-Hexanone and Acetone are failing high but no positive hit in associate sample therefore no corrective action taken.

except following  
SVOCMS Group1 : The Continuous Calibration File ID BG064435.D met the requirements except for 2,4,6-Tribromophenol and Nitrobenzene-d5, failing high side but The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BP025824.D met the requirements except for Benzo(g,h,i)perylene, marginally failing low side therefore no corrective action was taken.

except following  
PCB Group1 : The Continuous Calibration File ID PQ070933.D met the requirements except for Decachlorobiphenyl is failing in 2nd column, however it is passed in 1st column therefore no corrective action was taken.

The Continuous Calibration File ID PQ070944.D met the requirements except for Decachlorobiphenyl is failing in 2nd column, however it is passed in 1st column therefore no corrective action was taken.

The Tuning criteria met requirements.

The Duplicate analysis met criteria for all compounds. except following  
Mercury, Metals ICP-Group1 : The Duplicate (20-DEAD-1DUP) analysis met criteria for all compounds except for Lead due to sample matrix interference. The Duplicate (20-DEAD-1MSD) analysis met criteria for all compounds except for Boron due to Chemical Interference during Digestion Process.

The Serial Dilution met the acceptable requirements.

**E. Additional Comments:**

SVOCMS Group1 : The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points

The not QT review data is reported in the Miscellaneous.



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

VOCMS Group1 : Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

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.

Mercury, Metals ICP-Group1 : The Post Digest Spike (20-DEAD-1A) analysis met criteria for all compounds except for Boron 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.

**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\_\_\_\_\_