

Cover Page

Order ID : Q3155

Project ID : Tanner G. Duckrey Public School

Client : Kleinfelder

Lab Sample Number

Q3155-01
Q3155-02
Q3155-03
Q3155-04

Client Sample Number

COMP-1
COMP-2
COMP-3
TB

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. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 10/1/2025



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



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ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 μ m df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 μ 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 μ m df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 μ 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.



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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.



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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_____

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3155

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/01/2025