

Client Sample Number

Cover Page

- **Order ID :** Q1539
- Project ID : Ft Meade Tipton Airfield Parcel RI PO 0111169
 - Client : Weston Solutions

Lab Sample Number

Q1539-01TAPIAL3-MW03D-031025-00-T1Q1539-02TAPFTA-MW01I-031025-00-T2Q1539-03TAP-TB-03-031025Q1539-04TAP-TB-04-031025-T2

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: 3/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



Weston Solutions Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169 Project # N/A Chemtech Project # Q1539 Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

4 Water samples were received on 03/11/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group5, Diesel Range Organics, Gasoline Range Organics, Hardness, Total, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, Oil and Grease, PESTICIDE Group1, SVOC-TCL BNA -20, TOC and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples. The RPD met criteria . The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . 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.

E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial



Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F.Calculation for Concentration in Water Samples:

Concentration ug/L = $(A \times)(I \times)(Df)$ (Ais) (RRF)(V0)

Where,

Ax = Area for the compound to be measured Ais = Area for the specific internal standard Is = Amount of internal standard added in nanograms (ng) RRF = Relative response factor of the initial calibration curve standard. Vo = Volume of water purged in milliliters (mL) Df = Dilution factor.

G. 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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Weston Solutions Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169 Project # N/A Chemtech Project # Q1539 Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

4 Water samples were received on 03/11/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group5, Diesel Range Organics, Gasoline Range Organics, Hardness, Total, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, Oil and Grease, PESTICIDE Group1, SVOC-TCL BNA -20, TOC and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples. The RPD met criteria .

The Blank Spike for {PB167097BS} with File ID: BF141941.D met requirements for all samples except for 4-Chloroaniline[31%], Hexachlorocyclopentadiene[170%] but no positive hits in associated samples therefore no corrective action taken.

The Blank Spike Duplicate for {PB167097BSD} with File ID: BF141942.D met requirements for all samples except for Hexachlorocyclopentadiene[160%] but no positive hit in associated samples therefore no corrective action taken.

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

The % RSD is greater than 20% in the Initial Calibration (8270-BF031025.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The Continuous Calibration met the requirements .



The Tuning criteria met requirements.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Calculation for Concentration in Water Samples:

Concentration ug/L = (Ax) (Is) (Vt) (DF) (GPC)(Ais) (RRF) (Vo) (Vi)

Where,

Ax = Area of the characteristic ion for the compound to be measured.

Ais = Area of the characteristic ion for the internal standard.

Is = Amount of internal standard injected in ng.

Vo = Volume of water extracted in mL.

Vi = Volume of extract injected in uL.

Vt = Volume of the concentrated extract in uL

- RRF = Mean Relative Response Factor determined from the initial calibration standard.
- $GPC = \underline{Vin} = GPC \text{ factor (If no GPC is performed, GPC=1)}$

Vout

G. 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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Weston Solutions Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169 Project # N/A Chemtech Project # Q1539 Test Name: PESTICIDE Group1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 03/11/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group5, Diesel Range Organics, Gasoline Range Organics, Hardness, Total, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, Oil and Grease, PESTICIDE Group1, SVOC-TCL BNA -20, TOC and VOC-TCLVOA-10. This data package contains results for PESTICIDE Group1.

C. Analytical Techniques:

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 Group1s was based on method 8081B and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

E. Calculation for Concentration in Water Samples:

Concentration in ug/L = (Ax) (Vt) (DF) (GPC)(CF) (Vo) (Vi)

Where,

Ax = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

Vo = Volume of water extracted in mL.





- Vi = Volume of extract injected in uL.
- Vt = Volume of the concentrated extract in uL
- GPC = Vin = GPC factor (If no GPC is performed, GPC=1) Vout
- Vin = Volume of extract loaded onto GPC column.
- Vout = Volume of extract collected after GPC cleanup.
- DF = Dilution Factor.

F. Additional Comments:

The not QT review data is reported in the Miscellaneous.

G. 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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Weston Solutions Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169 Project # N/A Chemtech Project # Q1539 Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:

4 Water samples were received on 03/11/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group5, Diesel Range Organics, Gasoline Range Organics, Hardness, Total, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, Oil and Grease, PESTICIDE Group1, SVOC-TCL BNA -20, TOC and VOC-TCLVOA-10. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:

The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302. The analysis of Diesel Range Organics was based on method 8015D and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples. The RPD met criteria . The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

E. Additional Comments:

F. Calculation for Concentration in WATER samples :

The sample concentrations (Cs) in ug/L are calculated as follows:

 $Cs = \frac{\{Extract DRO-net (ug/mL)\}\{Final vol. extract (mL)\}\{Df\}}{Ws}$

Where DRO (net)ug/mL = DRO (total) ug /mL - DRO (solvent) ug /mL Df = Dilution factor Ws= Weight of sample in mL



G. 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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Weston Solutions Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169 Project # N/A Chemtech Project # Q1539 Test Name: Gasoline Range Organics

A. Number of Samples and Date of Receipt:

4 Water samples were received on 03/11/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group5, Diesel Range Organics, Gasoline Range Organics, Hardness, Total, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, Oil and Grease, PESTICIDE Group1, SVOC-TCL BNA -20, TOC and VOC-TCLVOA-10. This data package contains results for Gasoline Range Organics.

C. Analytical Techniques:

The analysis performed on instrument FID_B were done using GC column RTX502.2 which is 60 meters, 0.53mm ID, 3.0 um df, cat#10909.The analysis of Gasoline Range Organics was based on method 8015D.

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples. The RPD met criteria . The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

F. Calculation for Concentration in WATER samples :

Calculations for samples are:

Waters: mg/L =

ng purged (mL sample purged) (1000)



Where ng purged = <u>total area of peaks</u> calibration factor (CF)

CF = mean CF of the initial calibration

G. 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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284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Weston Solutions Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169 Project # N/A Chemtech Project # Q1539 Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:

4 Water samples were received on 03/11/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group5, Diesel Range Organics, Gasoline Range Organics, Hardness, Total, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, Oil and Grease, PESTICIDE Group1, SVOC-TCL BNA -20, TOC and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL, Mercury.

C. Analytical Techniques:

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.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met criteria for all samples.

The Duplicate (TAPFTA-MW01I-031025-00-T2DUP) analysis met criteria for all samples except for Aluminum due to matrix interference.

The Matrix Spike (TAPFTA-MW01I-031025-00-T2MS) analysis met criteria for all samples except for Arsenic, Iron, Manganese, Potassium, Silver due to matrix interference.

The Matrix Spike Duplicate (TAPFTA-MW01I-031025-00-T2MSD) analysis met criteria for all samples except for Arsenic, Barium, Iron, Manganese, Potassium, Silver due to matrix interference.

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

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Calculations:

Calculation for ICP-MS Water Sample:

Concentration or Result (μ g/L) = C x Vf x DF



Where,

Vi

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Calculation for Hg Water Sample:

Concentration or Result (μ g/L) = C x DF Where, C = Instrument response in μ g/L from the calibration curve.

DF = Dilution Factor

F. Additional Comments:

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.

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Signature



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CASE NARRATIVE

Weston Solutions Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169 Project # N/A Chemtech Project # Q1539 Test Name: Hexavalent Chromium,Oil and Grease,Anions Group5,TOC,Ammonia

A. Number of Samples and Date of Receipt:

4 Water samples were received on 03/11/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group5, Diesel Range Organics, Gasoline Range Organics, Hardness, Total, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, Oil and Grease, PESTICIDE Group1, SVOC-TCL BNA -20, TOC and VOC-TCLVOA-10. This data package contains results for Hexavalent Chromium,Oil and Grease,Anions Group5,TOC,Ammonia.

C. Analytical Techniques:

The analysis of Oil and Grease was based on method 1664A, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Anions Group5 was based on method 9056A, The analysis of TOC was based on method 9060A and The analysis of Ammonia was based on method SM4500-NH3.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample TAPIAL3-MW03D-031025-00-T1 was diluted due to high concentrations for Chloride.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike(TAPIAL3-MW03D-031025-00-T1MS) analysis met criteria for all samples except for TOC, Chloride due to Sample matrix interferences.

The Matrix Spike Duplicate (TAPIAL3-MW03D-031025-00-T1MSD) analysis met criteria for all samples except for TOC, Chloride due to Sample matrix interferences. The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:



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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	
Е	Indicates the reported value is estimated because of the presence of interference	
Μ	Indicates Duplicate injection precision not met.	
Ν	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 OR	 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 "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 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	
Н	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 is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
В	Indicates the analyte was found in the blank as well as the sample report as "12 B".
Ε	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.
Р	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".
Ν	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.
Α	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 #: Q1539

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)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>