

## Cover Page

**Order ID :** Q1782

**Project ID :** Ansonia Landfill 2025

**Client :** Lockwood, Kessler & Bartlett, Inc.

### Lab Sample Number

Q1782-01  
Q1782-02  
Q1782-03  
Q1782-04  
Q1782-05  
Q1782-06  
Q1782-07  
Q1782-08  
Q1782-09

### Client Sample Number

MW-1  
MW-1  
MW-2  
MW-2  
MW-3  
MW-3  
MW-4  
MW-4  
TRIP BLANK

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: 4/22/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Lockwood, Kessler & Bartlett, Inc.**

**Project Name: Ansonia Landfill 2025**

**Project # N/A**

**Chemtech Project # Q1782**

**Test Name: VOCMS Group1**

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

9 Water samples were received on 04/10/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, Dissolved Metals Group5, Metals Group4, pH, Redox Potential, TDS, TKN, Total Nitrogen, TSS, Turbidity and VOCMS Group1. This data package contains results for VOCMS Group1.

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

The analysis performed on instrument MSVOA\_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group1 was based on method 8260-Low.

### **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 for { VX0411WBSD01 } with File ID: VX045734.D met requirements for all samples except for Bromochloromethane[129%] but associated samples have not positive hit for this compound therefore no corrective action was taken. The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82X040225W.M) for t-1,3dichloropropene, this compound is passing on Linear Regression.

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.

Trip Blank was not provided with this set of samples.

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



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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. 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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## **CASE NARRATIVE**

**Lockwood, Kessler & Bartlett, Inc.**

**Project Name: Ansonia Landfill 2025**

**Project # N/A**

**Chemtech Project # Q1782**

**Test Name: Dissolved Metals Group5, Metals Group4**

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

9 Water samples were received on 04/10/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, Dissolved Metals Group5, Metals Group4, pH, Redox Potential, TDS, TKN, Total Nitrogen, TSS, Turbidity and VOCMS Group1. This data package contains results for Dissolved Metals Group5, Metals Group4.

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

The analysis of Dissolved Metals Group5, Metals Group4 was based on method 6010D and digestion based on method 3010 (waters).

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate (MW-4DUP) analysis met criteria for all samples except for Manganese due to sample Matrix interference.

The Matrix Spike (MW-4MS) analysis met criteria for all samples except for Manganese due to Chemical Interference during Digestion process.

The Matrix Spike Duplicate (MW-4MSD) analysis met criteria for all samples except for Manganese due to Chemical Interference during Digestion process.

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

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

### **E. Additional Comments:**

Sample Q1782-01, Q1782-03, Q1782-05 and Q1782-07 analyzed as Total Metal, sample Q1782-02, Q1782-04, Q1782-06 and Q1782-08 analyzed as Dissolved Metal.

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## **CASE NARRATIVE**

**Lockwood, Kessler & Bartlett, Inc.**

**Project Name: Ansonia Landfill 2025**

**Project # N/A**

**Chemtech Project # Q1782**

**Test Name: Total**

**Nitrogen,pH,Alkalinity,TKN,Ammonia,Turbidity,TDS,BOD5,TSS,Anions Group1**

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

9 Water samples were received on 04/10/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, Dissolved Metals Group5, Metals Group4, pH, TDS, TKN, Total Nitrogen, TSS, Turbidity and VOCMS Group1. This data package contains results for Total Nitrogen, pH, Alkalinity, TKN, Ammonia, Turbidity, TDS, BOD5, TSS, Anions Group1.

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

The analysis of Anions Group1 was based on method 300.0, The analysis of pH was based on method 9040C, The analysis of Total Nitrogen was based on method Cal, The analysis of Turbidity was based on method SM2130 B, The analysis of Alkalinity was based on method SM2320 B, The analysis of TDS was based on method SM2540 C, The analysis of TSS was based on method SM2540 D, The analysis of TKN was based on method SM4500 N Org B or C, The analysis of Ammonia was based on method SM4500-NH3 and The analysis of BOD5 was based on method SM5210 B.

### **D. QA/ QC Samples:**

The Holding Times were met for all samples except for MW-1 of pH, for MW-2 of pH,for MW-3 of pH,for MW-4 of pH as samples were receive out of holding time and for MW-04DL for Nitrate as sample dilution was analyze out of holding time.

Sample MW-1 was diluted due to high concentrations for Chloride, Sulfate & Sample MW-1DL was diluted due to high concentrations for Chloride & Sample MW-2 was diluted due to high concentrations for Ammonia as N, Chloride & Sample MW-3 was diluted due to high concentrations for Chloride & Sample MW-4 was diluted due to high concentrations for Chloride, Nitrate & Sample MW-4DL 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 (MW-4MS) analysis met criteria for all samples except for Chloride due to matrix interferences.

The Matrix Spike Duplicate (MW-4MSD) analysis met criteria for all samples except for Chloride due to 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:

<b>J</b>	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).
<b>U</b>	Indicates the analyte was analyzed for, but not detected.
<b>ND</b>	Indicates the analyte was analyzed for, but not detected
<b>E</b>	Indicates the reported value is estimated because of the presence of interference
<b>M</b>	Indicates Duplicate injection precision not met.
<b>N</b>	Indicates the spiked sample recovery is not within control limits.
<b>S</b>	Indicates the reported value was determined by the Method of Standard Addition (MSA).
<b>*</b>	Indicates that the duplicate analysis is not within control limits.
<b>+</b>	Indicates the correlation coefficient for the MSA is less than 0.995.
<b>D</b>	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
<b>M</b>	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
<b>OR</b>	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
<b>Q</b>	Indicates the LCS did not meet the control limits requirements
<b>H</b>	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 #: Q1782

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: 04/22/2025