

Cover Page

Order ID : Q3560

Project ID : Syosset Landfill 2025

Client : Lockwood, Kessler & Bartlett, Inc.

Lab Sample Number

Q3560-01
Q3560-02
Q3560-03
Q3560-04
Q3560-05
Q3560-06
Q3560-07
Q3560-08
Q3560-09
Q3560-10

Client Sample Number

SY-10D
SY-10D
SY-10S
SY-10S
SY-10I
SY-10I
SY-12I
SY-12I
SY-12D
SY-12D

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: 11/19/2025



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

CASE NARRATIVE

Lockwood, Kessler & Bartlett, Inc.

Project Name: Syosset Landfill 2025

Project # N/A

Order ID # Q3560

Test Name: VOCMS Group1,Dissolved Metals Group5,Metals Group4,Alkalinity, Ammonia,Anions Group1,BOD5, Cyanide,pH,TDS,TKN,TOC,Total Nitrogen,TSS, Turbidity

A. Number of Samples and Date of Receipt:

10 Water samples were received on 11/06/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1,Dissolved Metals Group5,Metals Group4,Alkalinity,Ammonia,Anions Group1,BOD5,Cyanide,pH,TDS,TKN,TOC,Total Nitrogen,TSS,Turbidity. This data package contains results for VOCMS Group1(8260-Low),Dissolved Metals Group5 (6010D),Metals Group4(6010D),Alkalinity(SM2320 B),Ammonia(SM4500-NH3), Anions Group1(300.0),BOD5(SM5210 B),Cyanide(9012B),pH(9040C),TDS(SM2540 C),TKN(SM4500 N Org B or C),TOC(SM5310B),Total Nitrogen(Cal),TSS(SM2540 D),Turbidity(SM2130 B).

C. Analytical Techniques:

VOCMS Group1 : 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 VOCMS Group1 was based on method 8260-Low.

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

Wetchem : The analysis of Anions Group1 was based on method 300.0, The analysis of Cyanide was based on method 9012B, 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, The analysis of BOD5 was based on method SM5210 B and The analysis of TOC was based on method SM5310B.



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D. QA/ QC Samples:

The Holding Times were met for all analysis except following Wetchem : SY-10D of pH, for SY-10I of pH, for SY-10S of pH, for SY-12D of pH and for SY-12I of pH as sample were receive out of holding time. SY-10IDL of Nitrate as samples Dilutions analyzed out of holding time.

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 Wetchem : The Matrix Spike (SY-10SMS) analysis met criteria for all compounds except for TOC due to sample matrix interference. The Matrix Spike (MANHOLEMS) analysis met criteria for all compounds except for Chloride due to sample matrix interference.

The MSD recoveries met the requirements for all compounds except following Dissolved Metals Group5, Metals Group4 : The Matrix Spike Duplicate (WATER-TREATMENT DISCHARGEMSD) analysis met criteria for all compounds except for Chromium and Iron Due to Chemical Interference during Digestion process.

Wetchem : The Matrix Spike Duplicate(MANHOLEMSD) analysis met criteria for all compounds except for Chloride due to sample matrix interference.

The RPD recoveries met criteria.

The Blank Spike met requirements for all compounds.

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.

The Continuous Calibration met the requirements except following VOCMS Group1 : The Continuous Calibration File ID VN088222.D met the requirements except for 2-Hexanone is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Wetchem : Sample SY-10D was diluted due to high concentrations for Ammonia as N, Chloride & Sample SY-10S was diluted due to high concentrations for Chloride & Sample SY-10I was diluted due to high concentrations for Chloride, Nitrate & Sample SY-12I was diluted due to high concentrations for Ammonia as N, TKN, Chloride, Sulfate & Sample SY-12IDL was diluted due to high concentrations for Ammonia as N, Chloride & Sample SY-12D was diluted due to high concentrations for Chloride, Nitrate, Sulfate & Sample SY-12DDL was diluted due to high concentrations for Chloride, Sulfate.



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

E. Additional Comments:

Dissolved Metals Group5, Metals Group4 : Sample Q3560-01, Q3560-03, Q3560-05, Q3560-07 and Q3560-09 were analyzed as Total Metal and sample Q3560-02, Q3560-04, Q3560-06, Q3560-08 and Q3560-10 were analyzed as Dissolved Metal.

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.

Trip Blank was not provided with this set of samples.

Alliance has analyzed samples for VOCMS Group1 by Method 8260D for Project "Syosset Landfill 2025". Alliance is not certified for trans-1,4-dichloro-2-butene compound with NJDEP for 8260D method. for VOCMS Group1 at the time when samples for Project "Syosset Landfill 2025" were analyzed.

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 #: Q3560

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: 11/19/2025