

# REASONABLE CONFIDENCE PROTOCOL

# LABORATORYANALYSISQA/QCCERTIFICATIONFORM

LaboratoryName: Client: Nobis Group
AllianceTechnical Group LLC

Project Number: 95700
Project Location: Stratford, CT

SamplingDate(s):07/17/25

LaboratorySampleID(s):Q2638 ListRCPMethodsUsed

(9012B, 8151A, 8082A, 8081B, 8270E, 8260D,7471B,1312, 6010D)

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	⊠Yes □ No
1A	Were the method specified preservation and holding time requirements met?	
1B	<u>VPH and EPH Methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	□Yes □ No ⊠N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	⊠Yes □ No
3	Were samples received at an appropriate temperature (<6° C°)?	⊠Yes □No
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	□Yes ⊠No
_	a) Were reporting limits specified or referenced on the chain-of-custody?	⊠Yes □ No
5	b) Were these reporting limits met?	⊠Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	⊠Yes □ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	□Yes ⊠No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

	and penalties of perjury that, to the best of my ersonal inquiry of those responsible for providing ort, such information is accurate and complete.
Authorized Signature:	Position: OC SUPERVISOR
Printed Name: NIMISHA N. PANDYA	Date:
Name of Laboratory : Alliance Technical grou	up LLC



# **Cover Page**

Order ID: Q2638

Project ID: Raymark Superfund Site

Client: Nobis Group

#### **Lab Sample Number Client Sample Number** Q2638-01 OU4-TS-31-071725 Q2638-02 OU4-TS-31-071725 Q2638-03 OU4-TS-32-071725 Q2638-04 OU4-TS-32-071725 Q2638-05 OU4-TS-33-071725 Q2638-06 OU4-TS-33-071725 Q2638-07 OU4-TS-34-071725 Q2638-08 OU4-TS-34-071725 Q2638-09 OU4-TS-35-071725 Q2638-10 OU4-TS-35-071725 Q2638-11 OU4-TS-36-071725 Q2638-12 OU4-TS-36-071725 Q2638-13 OU4-TS-37-071725 Q2638-14 OU4-TS-37-071725

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 :		
Signature .	 ate:	7/28/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012





**Nobis Group** 

**Project Name: Raymark Superfund Site** 

Project # N/A Order ID # Q2638

**Test Name: VOCMS Group3** 

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

7 Solid samples were received on 07/18/2025.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group3. This data package contains results for VOCMS Group3.

#### C. Analytical Techniques:

The analysis performed on instrument MSVOA\_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group3 was based on method 8260D.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

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 %RSD is greater than 20% in the Initial Calibration method (82Y071825S.M) for Methylene chloride passing on Linear regression.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

#### E. Additional Comments:

As per special requirement for this project form-1 are reported in mg/kg. 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.

The not QT review data is reported in the Miscellaneous.



The soil samples results are based on a dry weight basis.

Alliance has analyzed samples for VOCMS Group3 by Method 8260D for Project "Raymark Superfund Site". Alliance is not certified for trans-1,4-dichloro-2-butene and Tetrahydrofuran compounds with NJDEP for 8260D method. for VOCMS Group3 at the time when samples for Project "Raymark Superfund Site "were analyzed.

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. 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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	Signature_		





**Nobis Group** 

**Project Name: Raymark Superfund Site** 

Project # N/A Order ID # Q2638

Test Name: SVOCMS Group3

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

7 Solid samples were received on 07/18/2025.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group3. This data package contains results for SVOCMS Group3.

#### 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 df. The samples were analyzed on instrument 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 Group3 was based on method 8270E and extraction was done based on method 3541.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for,

RT2286MS [Terphenyl-d14 - 44%],

RT2286MSD [Terphenyl-d14 - 43%],

OU4-TS-31-071725 [Terphenyl-d14 - 33%],

OU4-TS-32-071725 [Terphenyl-d14 - 33%].

OU4-TS-33-071725 [Terphenyl-d14 - 35%] and

OU4-TS-35-071725 [Terphenyl-d14 - 37%]. As per SOP one base surrogate allowed to fail, therefor no further corrective action was taken.

#### And,

OU4-TS-34-071725 [2-Fluorobiphenyl - 43%, Terphenyl-d14 - 31%], OU4-TS-34-071725RE [2-Fluorobiphenyl - 43%, Terphenyl-d14 - 39%], OU4-TS-36-071725 [2-Fluorobiphenyl - 40%, Terphenyl-d14 - 42%], OU4-TS-36-071725RE [2-Fluorobiphenyl - 40%, Terphenyl-d14 - 40%], OU4-TS-37-071725 [2-Fluorobiphenyl - 39%, Terphenyl-d14 - 40%] and OU4-TS-37-071725RE [2-Fluorobiphenyl - 38%, Terphenyl-d14 - 40%]. Samples were re analyzed to confirm surrogate failure, Both the analysis reported for the Hardcopy.



The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS {Q2635-01MS} with File ID: BF143180.D recoveries met the requirements for all compounds except for Benzo(b)fluoranthene[133%]. Recovery failed due to matrix interference, therefor no further corrective action was taken.

The MSD {Q2635-01MSD} with File ID: BF143181.D recoveries met the requirements for all compounds except for Benzo(b)fluoranthene[133%], Fluoranthene[133%]. Recovery failed due to matrix interference, therefor no further corrective action was taken.

The RPD were met for all analysis.

The Blank Spike 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.

The Tuning criteria met requirements.

## **E. Additional Comments:**

As per special requirement for this project form-1 are reported in mg/kg. 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.

The soil samples results are based on a dry weight basis.

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. 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	 	 	
Signature_	 	 	





**Nobis Group** 

**Project Name: Raymark Superfund Site** 

Project # N/A Order ID # Q2638

**Test Name: Pesticide-TCL** 

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

7 Solid samples were received on 07/18/2025.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: Pesticide-TCL. This data package contains results for Pesticide-TCL.

#### 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-TCLs was based on method 8081B and extraction was done based on method 3541.

## D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for OU4-TS-31-071725 [Decachlorobiphenyl(1)27%, Decachlorobiphenyl(2)23%], OU4-TS-31-071725RE [Decachlorobiphenyl(1)29%, Decachlorobiphenyl(2)28%], OU4-TS-33-071725 [Decachlorobiphenyl(1)37%, Decachlorobiphenyl(2)34%], OU4-TS-33-071725RE [Decachlorobiphenyl(1)38%, Decachlorobiphenyl(2)39%], OU4-TS-34-071725 [Decachlorobiphenyl(1)34%, Decachlorobiphenyl(2)30%], OU4-TS-34-071725RE [Decachlorobiphenyl(1)36%, Decachlorobiphenyl(2)34%], the failure samples in surrogates with both columns were reanalyzed to confirm the results as per method and reported in the data while,

OU4-TS-32-071725 [Decachlorobiphenyl(1)39%],OU4-TS-35-071725 [Decachlorobiphenyl(2)54%] and OU4-TS-36-071725 [Decachlorobiphenyl(2)53%]AS per method one surrogate allowed to fail to meet the criteria per column, No further corrective action was taken.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD were met for all analysis.





The Blank Spike 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.

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

As per special requirement for this project form-1 are reported in mg/kg. The not QT review data is reported in the Miscellaneous. The soil samples results are based on a dry weight basis.

## **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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**Nobis Group** 

**Project Name: Raymark Superfund Site** 

Project # N/A Order ID # Q2638 Test Name: PCB

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

7 Solid samples were received on 07/18/2025.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: PCB. This data package contains results for PCB.

#### C. Analytical Techniques:

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\_P. 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 analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

## D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for OU4-TS-33-071725 [Decachlorobiphenyl(1)59%] and OU4-TS-36-071725 [Decachlorobiphenyl(1)59%]AS per method one surrogate allowed to fail to meet the criteria per column. No further corrective action was taken.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD were met for all analysis.

The Blank Spike 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 File ID PP073987.D met the requirements except for Decachlorobiphenyl is failing in 2nd column however it is passing in 1st column therefore no corrective action taken.



The Continuous Calibration File ID PP074002.D met the requirements except for Aroclor-1260(Peak-02) is failing in 1st column however it is passing in 2nd column therefore no corrective action taken.

## E. Additional Comments:

The not QT review data is reported in the Miscellaneous. The soil samples results are based on a dry weight basis.

## **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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**Nobis Group** 

**Project Name: Raymark Superfund Site** 

Project # N/A Order ID # Q2638

Test Name: Herbicide Group1

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

7 Solid samples were received on 07/18/2025.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: Herbicide Group1. This data package contains results for Herbicide Group1.

#### C. Analytical Techniques:

The analysis was performed on instrument ECD\_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324. The analysis of Herbicide Group1s was based on method 8151A and extraction was done based on method 3541.

## D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Retention Times were met for all analysis.

The MS {Q2638-11MS} with File ID: PS031224.D recoveries met the requirements for all compounds except for [Dalapon(1)30%], [Dinoseb(1)0% - Dinoseb(2)0%]due to matrix interference.

The MSD {Q2638-11MSD} with File ID: PS031225.D recoveries met the requirements for all compounds except for [Dalapon(1)30%], [Dinoseb(1)0% - Dinoseb(2)0%]due to matrix interference.

The sample # OU4-TS-36-071725MS and OU4-TS-36-071725MSD is failing for Dalapon, Dinoseb and the original sample(OU4-TS-36-071725) is reported with M flag for this compounds.

The RPD were met for all analysis.

The Blank Spike 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.





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

As per special requirement for this project form-1 are reported in mg/kg. The not QT review data is reported in the Miscellaneous. The soil samples results are based on a dry weight basis.

## 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

Nobis Group

**Project Name: Raymark Superfund Site** 

Project # N/A Order ID # Q2638

**Test Name: Mercury, Metals ICP-TAL** 

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

14 Solid samples were received on 07/18/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals Group6, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOCMS Group3 and VOCMS Group3. This data package contains results for Mercury, Metals ICP-TAL.

## C. Analytical Techniques:

The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

## D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate (OU4-TS-37-071725DUP) analysis met criteria for all compounds except for Cadmium due to sample matrix interference.

The Matrix Spike (OU4-TS-37-071725MS) analysis met criteria for all compounds except for Antimony, Arsenic, Beryllium, Chromium and Selenium due to Chemical Interference during Digestion process.

The Matrix Spike Duplicate (OU4-TS-37-071725MSD) analysis met criteria for all compounds except for Antimony, Arsenic, Beryllium, Chromium, Cobalt, Selenium and Silver 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 (OU4-TS-37-071725L) met criteria for all compounds except for Calcium, Chromium, Copper, Magnesium and Manganese due to sample matrix interference.

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

The Post Digest Spike (OU4-TS-37-071725A) analysis met criteria for all compounds except for Arsenic, Beryllium, Chromium and Silver 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.



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## CASE NARRATIVE

Nobis Group

**Project Name: Raymark Superfund Site** 

Project # N/A Order ID # Q2638

Test Name: SPLP Mercury, SPLP MetalGroup3

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

14 Solid samples were received on 07/18/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals Group6, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOCMS Group3 and VOCMS Group3. This data package contains results for SPLP Mercury, SPLP MetalGroup3.

## C. Analytical Techniques:

The analysis of SPLP MetalGroup3 was based on method 6020B, digestion based on method 3010 (water). The analysis of SPLP Mercury was based on method 7470A and digestion was based on method 7470 (water).

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike (OU4-TS-44-071725MS) analysis met criteria for all compounds except for Antimony, Barium, Chromium, Lead, Silver, Thallium and Vanadium due to Chemical interference during Digestion process.

The Matrix Spike Duplicate (OU4-TS-44-071725MSD) analysis met criteria for all compounds except for Antimony, Barium, Chromium, Lead, Silver, Thallium and Vanadium 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:**

The Post Digest Spike (OU4-TS-44-071725A) analysis met criteria for all compounds except for Antimony, Barium, Chromium, Lead, Silver and Vanadium 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.



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.

Q2638 SPLP all samples diluted 5X Straight due to SPLP fluid which cannot be injected as is without dilution to avoid damage to detector of instrument.

Internal standard 89Y(1) and 89Y(2) was outside qc limit for samples Q2638-04 in Original so for these samples affected parameters are reported from its Dilution.

Internal standard 89Y(1) was outside qc limit for samples Q2638-02, Q2638-06, Q2638-08, Q2638-10, Q2638-12 and Q2638-14 in Original so for these samples affected parameters are reported from its Dilution.

Internal standard 209Bi(1) was outside qc limit for samples Q2638-02, Q2638-04, Q2638-06, Q2638-08, Q2638-10, Q2638-12 and Q2638-14 in Original so for these samples affected parameters are reported from its Dilution.

Internal standard 89Y(1 and 2), 209Bi(1) was outside qc limit for samples Q2639-14Qcs in Original so for these samples affected parameters are reported from its Dilution.

In analytical sequence LB136601, The % recovery was outside of acceptance limit for Beryllium of ICV01, LLICV01 and CCV01 but no any samples parameter associated under this calibration.

In analytical sequence LB136601, The % recovery was outside of acceptance limit for Beryllium and Nickel of ICSAB01 but, no any samples parameter associated under this ICSAB.

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## **CASE NARRATIVE**

**Nobis Group** 

**Project Name: Raymark Superfund Site** 

Project # N/A Order ID # Q2638 Test Name: Cyanide

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

7 Solid samples were received on 07/18/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Cyanide. This data package contains results for Cyanide.

## C. Analytical Techniques:

The analysis of Cyanide was based on method 9012B.

## D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike analysis met criteria for all compounds.

The Matrix Spike Duplicate analysis met criteria for all compounds.

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

The Calibration met the requirements.

#### E. Additional Comments:

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 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  "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 B	<ul> <li>Indicates an estimated value. This flag is used:</li> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(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.</li> <li>Indicates the analyte was found in the blank as well as the sample report as "12 B".</li> </ul>
Е	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 #: Q2638

	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	<u> </u>
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	<u> </u>
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	
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: SOHIL JODHANI Date: 07/28/2025