

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC

Client : JACOBS Engineering Group, Inc.

Project Location : Princeton Junction

Project Number : D379922

Laboratory Sample ID(s) : P3671

Sampling Date(s) : 8/19/2024

List DKQP Methods Used (e.g., 8260,8270, et Cetra)

6020B,7196A,7471B,8260D,8270-Modified,8270E,Lloyd Kahn

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 NJDEP Data of Known Quality performance standards?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified handling, preservation, and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (4±2° C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
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 DKQP documents and/or site-specific QAPP?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should 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 "Data of Known Quality."

Cover Page

Order ID : P3671

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3671-01
P3671-02
P3671-03
P3671-04
P3671-05
P3671-06
P3671-07
P3671-08
P3671-09
P3671-10
P3671-11
P3671-12
P3671-13
P3671-14
P3671-15

Client Sample Number

S-904-J-SO-0-0.5-081924
S-904-J-SO-0.5-1.0-081924
S-911-K1-SO-0-0.5-081924
S-911-K1-SO-0.5-1-081924
S-911-K1-SO-0-0.5-081924-FD
S-905-J-SO-0-0.5-081924
S-905-J-SO-0-0.5-081924-FD
S-905-J-SO-0.5-1.0-081924
S-928-K1-SO-0-0.5-081924
S-928-K1-SO-0.5-1-081924
S-903-J-SO-0-0.5-081924
S-903-J-SO-0.5-1.0-081924
S-912-J-SO-0-0.5-081924
S-912-J-SO-0.5-1-081924
TB-01-081924

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: 6/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3671

Test Name: VOCMS Group5

A. Number of Samples and Date of Receipt:

14 Solid samples were received on 08/19/2024.

1 Water sample was received on 08/19/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group5, TOC, VOCMS Group 4, VOCMS Group3, VOCMS Group5 and VOCMS Group6. This data package contains results for VOCMS Group5.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator. The analysis of VOCMS Group5 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for S-911-K1-SO-0-0.5-081924 [4-Bromofluorobenzene - 51%], S-911-K1-SO-0.5-1-081924 [4-Bromofluorobenzene - 69%], S-911-K1-SO-0.5-1-081924RE [4-Bromofluorobenzene - 61%], S-911-K1-SO-0-0.5-081924-FDRE [4-Bromofluorobenzene - 57%], S-928-K1-SO-0-0.5-081924RE [4-Bromofluorobenzene - 68%], S-928-K1-SO-0.5-1-081924RE [4-Bromofluorobenzene - 69%], S-912-J-SO-0-0.5-081924 [4-Bromofluorobenzene - 57%] and S-912-J-SO-0-0.5-081924RE [4-Bromofluorobenzene - 55%] these surrogates did not meet the NJDKQP criteria but met the in-house criteria while

S-928-K1-SO-0.5-1-081924 [1,2-Dichloroethane-d4 - 36%, 4-Bromofluorobenzene - 17%], these compounds did not meet the NJDKQP criteria and in-house criteria, therefore sample was reanalyzed to confirm the failure and reported.

The Internal Standards Areas met the acceptable requirements except for S-911-K1-SO-0-0.5-081924, S-911-K1-SO-0-0.5-081924RE, S-911-K1-SO-0.5-1-081924, S-911-K1-SO-0.5-1-081924RE, S-911-K1-SO-0-0.5-081924-FD, S-911-K1-SO-0-0.5-081924-FDRE, S-928-K1-SO-0-0.5-081924, S-928-K1-SO-0-0.5-081924RE, S-928-K1-SO-0.5-1-081924, S-928-K1-SO-0.5-1-081924RE, S-912-J-SO-0-0.5-081924 and S-912-J-SO-0-0.5-081924RE, samples were reanalyzed to confirm the failure and reported.

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 %RSD is greater than 15% in the Initial Calibration method (82Y081524S.M) for Bromomethane, Methylene Chloride, Cyclohexane this compound is passing on Linear Regression.

The Continuous Calibration File ID VY019211.D met the requirements except for Bromomethane failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:

This data package has been revised due to Client ID of Sample# 06 and 07 changed.

This data package has been revised due to parameter list changed.

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 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 <15% 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 > 15% 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

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3671

Test Name: VOCMS Group6

A. Number of Samples and Date of Receipt:

14 Solid samples were received on 08/19/2024.

1 Water sample was received on 08/19/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group5, TOC, VOCMS Group 4, VOCMS Group3, VOCMS Group5 and VOCMS Group6. This data package contains results for VOCMS Group6.

C. Analytical Techniques:

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 Group6 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:

This data package has been revised due to parameter list changed.

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

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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.



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F. Manual Integration Comments:

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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3671

Test Name: SVOCMS Group5

A. Number of Samples and Date of Receipt:

14 Solid samples were received on 08/19/2024.

1 Water sample was received on 08/19/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group5, TOC, VOCMS Group 4, VOCMS Group3, VOCMS Group5 and VOCMS Group6. This data package contains results for SVOCMS Group5.

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 BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. 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-GG. The analysis of SVOCMS Group5 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 met the acceptable criteria except for S-903-J-SO-0-0.5-081924 [2,4,6-Tribromophenol - 29%, Terphenyl-d14 - 22%], these compounds did not meet the NJDKQP criteria but met the in-house criteria. While 2-Fluorobiphenyl - 18%, this compound did not meet the NJDKQP criteria and in-house criteria, and as per method two surrogates are allowed to fail, no corrective action was taken.

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.

The MSD recoveries met the acceptable requirements.

The RPD met criteria.

The Blank Spike met requirements for all samples.

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



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The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BF082024.M) for Benzo(g,h,i)perylene, this compound is passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration (Method 8270-BM081024.M) for Benzaldehyde, this compound is passing on Quadratic regression.

The Continuous Calibration File ID BF139113.D met the requirements except for Nitrobenzene-d5, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF139159.D met the requirements except for Dibenzo(a,h)anthracene, Nitrobenzene and Nitrobenzene-d5, Under this Continuous Calibration Lab has analyzed only dilution samples, and this compound does not required dilution so no further corrective action taken.

The Continuous Calibration File ID BP021607.D met the requirements except for Pentachlorophenol and 2,4,6-Tribromophenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

Sample S-904-J-SO-0-0.5-081924 was diluted due to high concentration.

E. Additional Comments:

This data Package has been revised to change Client ID as per client request.

The Sample S-904-J-SO-0-0.5-081924DL, S-904-J-SO-0.5-1.0-081924, S-911-K1-SO-0.5-1-081924, S-911-KI-SO-0-0.5-081924-FD, S-905-J-SO-0.5-1.0-081924, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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 <15% 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 > 15% 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

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Order ID # P3671

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

14 Solid samples were received on 08/19/2024.

1 Water sample was received on 08/19/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group5, TOC, VOCMS Group 4, VOCMS Group3, VOCMS Group5 and VOCMS Group6. This data package contains results for SVOCMS Group3.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group3 was based on method 8270-Modified and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for
S-905-J-SO-0-0.5-081924 [Fluoranthene-d10 - 28%, Terphenyl-d14 - 22%],
S-905-J-SO-0-0.5-081924DL [Fluoranthene-d10 - 26%, Terphenyl-d14 - 23%],
S-905-J-SO-0-0.5-081924-FD [Terphenyl-d14 - 24%],
S-905-J-SO-0-0.5-081924-FDDL [Terphenyl-d14 - 28%],
S-912-J-SO-0-0.5-081924 [Terphenyl-d14 - 24%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, while
S-912-J-SO-0.5-1-081924 [Fluoranthene-d10 - 24%, this compound did not meet the NJDKQP criteria but met the in-house criteria but [Terphenyl-d14 - 20%], this compound did not meet the NJDKQP criteria and in-house criteria and as per method one surrogate is allowed to failed therefore no corrective action was taken.

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 .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .



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The Blank Spike 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.

Samples S-905-J-SO-0-0.5-081924, S-905-J-SO-0-0.5-081924-FD and S-903-J-SO-0.5-1.0-081924 were diluted due to high concentrations.

E. Additional Comments:

This Data Package has been revised due to Client ID Change for some sample as per Client Request.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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

Samples S-904-J-SO-0-0.5-081924, S-904-J-SO-0.5-1.0-081924, S-905-J-SO-0.5-1.0-081924, S-903-J-SO-0-0.5-081924, were not analyzed in SIM due to high concentration of the target compound in Total scan analysis.

For sample # S-912-J-SO-0.5-1-081924 some compounds below Method detection limits, therefore it is not reported as Hit in Form-1.

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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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Order ID # P3671

Test Name: Metals Group4,Mercury

A. Number of Samples and Date of Receipt:

14 Solid samples were received on 08/19/2024.

1 Water sample was received on 08/19/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group5, TOC, VOCMS Group 4, VOCMS Group3, VOCMS Group5 and VOCMS Group6. This data package contains results for Metals Group4,Mercury.

C. Analytical Techniques:

The analysis of Metals Group4 was based on method 6020B, 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.

Sample S-904-J-SO-0.5-1.0-081924 was diluted due to high concentrations for Aluminum & Sample S-911-K1-SO-0.5-1-081924 was diluted due to high concentrations for Manganese & Sample S-905-J-SO-0-0.5-081924 was diluted due to high concentrations for Mercury & Sample S-905-J-SO-0-0.5-081924-FD was diluted due to high concentrations for Mercury, Aluminum & Sample S-905-J-SO-0.5-1.0-081924 was diluted due to high concentrations for Mercury, Aluminum & Sample S-928-K1-SO-0-0.5-081924 was diluted due to high concentrations for Manganese & Sample S-928-K1-SO-0.5-1-081924 was diluted due to high concentrations for Manganese & Sample S-903-J-SO-0-0.5-081924 was diluted due to high concentrations for Aluminum & Sample S-903-J-SO-0.5-1.0-081924 was diluted due to high concentrations for Aluminum and Iron.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (S-904-J-SO-0-0.5-081924MS) analysis met criteria for all samples except for Mercury due to sample matrix interference. The Matrix Spike (S-912-J-SO-0.5-1-081924MS) analysis met criteria for all samples except for Aluminum and Silver due to Chemical interference during Digestion Process.

The Matrix Spike Duplicate (S-904-J-SO-0-0.5-081924MSD) analysis met criteria for all samples except for Mercury due to sample matrix interference. The Matrix Spike



Duplicate (S-912-J-SO-0.5-1-081924MSD) analysis met criteria for all samples except for Aluminum 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 met criteria for all samples.

E. Additional Comments:

This Data Package has been revised due to some client id changed as per client request..

Internal standard 89Y(1 and 2) was out Side qc limit for sample P3671-02, P3671-04, P3671-07, P3671-08, P3671-09 and P3671-10 in Original so for these samples affected parameters are reported from its 5X Dilution.

Internal standard 89Y(1) was out Side qc limit for sample P3671-05 in Original so for these samples affected parameters are reported from its 5X Dilution.

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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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3671

Test Name: Hexavalent Chromium, TOC

A. Number of Samples and Date of Receipt:

14 Solid samples were received on 08/19/2024.

1 Water sample was received on 08/19/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group5, TOC, VOCMS Group 4, VOCMS Group3, VOCMS Group5 and VOCMS Group6. This data package contains results for Hexavalent Chromium, TOC.

C. Analytical Techniques:

The analysis of Hexavalent Chromium was based on method 7196A and The analysis of TOC was based on method Lloyd Kahn.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (S-929-K1-SO-0-0.5-082024MS) analysis met criteria for all samples except for TOC due to sample matrix interference.

The Matrix Spike Duplicate (S-929-K1-SO-0-0.5-082024MSD) analysis met criteria for all samples except for TOC due to sample matrix interference.

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

The Calibration met the requirements.

E. Additional Comments: This Data Package has been Revised due to Client ID Change for some sample as per Client Request.

Lab has used least representable sample weight for the sample P3671-01, P3671-02, P3671-03, P3671-04, P3671-05, P3671-06, P3671-07, P3671-08, P3671-09, P3671-10, P3671-11, P3671-13 and P3671-14 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.



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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
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 #: P3671

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 Castody

✓

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: 06/03/2025