

# DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC

Client : Woodard & Curran

Project Location : \_\_\_\_\_

Project Number : \_\_\_\_\_

Laboratory Sample ID(s) : Q1669

Sampling Date(s) : 03/26/2025,03/27/2025

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **TO-15**

|    |                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                             |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                            |
| 4  | Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> Yes <input 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?<br><br>b)Were these reporting limits met?                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><br><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 checked="" type="checkbox"/> Yes <input 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 :** Q1669

**Project ID :** US EPA Riverside Industrial Park Superfund Site

**Client :** Woodard & Curran

### Lab Sample Number

Q1669-01  
Q1669-02  
Q1669-03  
Q1669-04  
Q1669-05  
Q1669-06  
Q1669-07  
Q1669-08  
Q1669-09

### Client Sample Number

IA-B9-3-3262025  
IA-B9-2-3262025  
IA-B9-1-3262025  
AA-2-3252025  
SSSG-B16-3-3262025  
SSSG-DUP-1-3262025  
SSSG-B16-1-3262025  
SSSG-B16-2-3262025  
AA-3-3252025

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: 4/7/2025



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

## **CASE NARRATIVE**

### **Woodard & Curran**

**Project Name: US EPA Riverside Industrial Park Superfund Site**

**Project # N/A**

**Chemtech Project # Q1669**

**Test Name: TO-15**

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

9 Air samples were received on 03/27/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

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

The analysis performed on instrument MSVOA\_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of TO-15 was based on method TO-15.

### **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 for {Q1669-09DUP} with File ID: VL042190.D met criteria except for 2-Butanone[24.4%], m/p-Xylene[200%] due to difference in results of original and DUP.

The RPD for {Q1669-01DUP} with File ID: VL042196.D met criteria except for 1,3,5-Trimethylbenzene[200%], Cyclohexane[200%] due to difference in results of original and DUP.

The RPD for {Q1669-06DUP} with File ID: VL042206.D met criteria except for Tetrachloroethene[200%] due to difference in results of original and DUP.

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 IA-B9-3-3262025, SSSG-DUP-1-3262025 and SSSG-B16-1-3262025 were diluted due to high concentrations.

#### E. Additional Comments:

The Sample #IA-B9-3-3262025, IA-B9-3-3262025DL, AA-2-3252025, SSSG-DUP-1-3262025DL, SSSG-B16-1-3262025, SSSG-B16-1-3262025DL, SSSG-B16-2-3262025, AA-3-3252025 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The not QT review data is reported in the Miscellaneous.

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

The Manual Integrations are performed for the followings :

| Manual Integration Report |          |            |         |
|---------------------------|----------|------------|---------|
| Sequence                  | vl032725 | Instrument | MSVOA_I |

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|

|             |            |             |     |                          |          |                        |                                         |
|-------------|------------|-------------|-----|--------------------------|----------|------------------------|-----------------------------------------|
| VSTDICCC010 | VL042172.D | m/p-Xylene  | SAM | 3/31/2025<br>11:24:55 AM | MMDadoda | 4/3/2025<br>8:05:09 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042173.D | 1,4-Dioxane | SAM | 3/31/2025<br>11:25:00 AM | MMDadoda | 4/3/2025<br>8:05:13 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042173.D | Ethanol     | SAM | 3/31/2025<br>11:25:00 AM | MMDadoda | 4/3/2025<br>8:05:13 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042173.D | m/p-Xylene  | SAM | 3/31/2025<br>11:25:00 AM | MMDadoda | 4/3/2025<br>8:05:13 AM | Peak Integrated by Software incorrectly |
| VSTDICCC001 | VL042174.D | 1,4-Dioxane | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software             |

|            |            |                          |     |                          |          |                        |                                         |
|------------|------------|--------------------------|-----|--------------------------|----------|------------------------|-----------------------------------------|
|            |            |                          |     |                          |          |                        | incorrectly                             |
| VSTDICC001 | VL042174.D | 4-Methyl-2-Pentanone     | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Ethanol                  | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | m/p-Xylene               | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Methyl Methacrylate      | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Propene                  | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | t-1,3-Dichloropropene    | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | trans-1,2-Dichloroethene | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Vinyl Acetate            | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | 1,1,2-Trichloroethane    | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |

|            |            |                           |     |                          |          |                        |                                         |
|------------|------------|---------------------------|-----|--------------------------|----------|------------------------|-----------------------------------------|
| VSTDICC0.5 | VL042175.D | 1,4-Dioxane               | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | cis-1,3-Dichloropropene   | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Cyclohexane               | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | m/p-Xylene                | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Methyl Methacrylate       | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Propene                   | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Tetrahydrofuran           | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Trichloroethene           | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042176.D | 1,1,1-Trichloroethane     | SAM | 3/31/2025<br>11:25:04 AM | MMDadoda | 4/3/2025<br>8:05:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042176.D | 1,1,2,2-Tetrachloroethane | SAM | 3/31/2025                | MMDadoda | 4/3/2025               | Peak Integrate                          |

|             |            |                           |     |                       |          |                     |                                          |
|-------------|------------|---------------------------|-----|-----------------------|----------|---------------------|------------------------------------------|
|             |            |                           |     | 11:25:04 AM           |          | 8:05:45 AM          | d by Software incorrectl y               |
| VSTDICC0.1  | VL042176.D | 1,2-Dibromoethane         | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.1  | VL042176.D | Carbon Tetrachloride      | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.1  | VL042176.D | Trichloroethene           | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | 1,1,1-Trichloroethane     | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | 1,1,2,2-Tetrachloroethane | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | Carbon Tetrachloride      | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | Tetrachloroethene         | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | Trichloroethene           | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | Vinyl Chloride            | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software              |

|                 |                |                            |         |                                 |              |                               |                                                          |
|-----------------|----------------|----------------------------|---------|---------------------------------|--------------|-------------------------------|----------------------------------------------------------|
|                 |                |                            |         |                                 |              |                               | incorrectl<br>y                                          |
| VSTDIC015       | VL042178.<br>D | m/p-Xylene                 | SA<br>M | 3/31/202<br>5<br>11:25:14<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:06:09<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| VSTDICV010      | VL042179.<br>D | m/p-Xylene                 | SA<br>M | 3/31/202<br>5<br>11:28:50<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:06:14<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| VL0327ABS0<br>1 | VL042181.<br>D | m/p-Xylene                 | SA<br>M | 3/31/202<br>5<br>11:25:09<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:06:19<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-01        | VL042185.<br>D | 2,2,4-<br>Trimethylpentane | SA<br>M | 3/31/202<br>5<br>11:26:49<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:06:44<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-01        | VL042185.<br>D | 4-Methyl-2-Pentanone       | SA<br>M | 3/31/202<br>5<br>11:26:49<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:06:44<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-01        | VL042185.<br>D | Chlorodifluoromethan<br>e  | SA<br>M | 3/31/202<br>5<br>11:26:49<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:06:44<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-01        | VL042185.<br>D | Cyclohexane                | SA<br>M | 3/31/202<br>5<br>11:26:49<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:06:44<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-01        | VL042185.<br>D | Heptane                    | SA<br>M | 3/31/202<br>5<br>11:26:49<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:06:44<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-01        | VL042185.<br>D | m/p-Xylene                 | SA<br>M | 3/31/202<br>5<br>11:26:49<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:06:44<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |

|          |            |                        |     |                          |          |                        |                                         |
|----------|------------|------------------------|-----|--------------------------|----------|------------------------|-----------------------------------------|
| Q1669-02 | VL042186.D | 2,2,4-Trimethylpentane | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Carbon Tetrachloride   | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Chlorodifluoromethane  | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Cyclohexane            | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Heptane                | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Propene                | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Styrene                | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Trichloroethene        | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-03 | VL042187.D | 2,2,4-Trimethylpentane | SAM | 3/31/2025<br>11:25:41 AM | MMDadoda | 4/3/2025<br>8:06:54 AM | Peak Integrated by Software incorrectly |
| Q1669-03 | VL042187.D | 4-Methyl-2-Pentanone   | SAM | 3/31/2025                | MMDadoda | 4/3/2025               | Peak Integrated                         |

|          |            |                       |     |                       |          |                     |                                         |
|----------|------------|-----------------------|-----|-----------------------|----------|---------------------|-----------------------------------------|
|          |            |                       |     | 11:25:41 AM           |          | 8:06:54 AM          | d by Software incorrectly               |
| Q1669-03 | VL042187.D | Carbon Tetrachloride  | SAM | 3/31/2025 11:25:41 AM | MMDadoda | 4/3/2025 8:06:54 AM | Peak Integrated by Software incorrectly |
| Q1669-03 | VL042187.D | Cyclohexane           | SAM | 3/31/2025 11:25:41 AM | MMDadoda | 4/3/2025 8:06:54 AM | Peak Integrated by Software incorrectly |
| Q1669-03 | VL042187.D | Heptane               | SAM | 3/31/2025 11:25:41 AM | MMDadoda | 4/3/2025 8:06:54 AM | Peak Integrated by Software incorrectly |
| Q1669-03 | VL042187.D | n-propylbenzene       | SAM | 3/31/2025 11:25:41 AM | MMDadoda | 4/3/2025 8:06:54 AM | Peak Integrated by Software incorrectly |
| Q1669-04 | VL042188.D | Carbon Tetrachloride  | SAM | 3/31/2025 11:25:57 AM | MMDadoda | 4/3/2025 8:07:00 AM | Peak Integrated by Software incorrectly |
| Q1669-04 | VL042188.D | Chlorodifluoromethane | SAM | 3/31/2025 11:25:57 AM | MMDadoda | 4/3/2025 8:07:00 AM | Peak Integrated by Software incorrectly |
| Q1669-04 | VL042188.D | m/p-Xylene            | SAM | 3/31/2025 11:25:57 AM | MMDadoda | 4/3/2025 8:07:00 AM | Peak Integrated by Software incorrectly |
| Q1669-04 | VL042188.D | Propene               | SAM | 3/31/2025 11:25:57 AM | MMDadoda | 4/3/2025 8:07:00 AM | Peak Integrated by Software incorrectly |
| Q1669-09 | VL042189.D | Carbon Tetrachloride  | SAM | 3/31/2025 11:25:37 AM | MMDadoda | 4/3/2025 8:07:08 AM | Peak Integrated by Software             |

|                 |                |                      |         |                                 |              |                               |                                                          |
|-----------------|----------------|----------------------|---------|---------------------------------|--------------|-------------------------------|----------------------------------------------------------|
|                 |                |                      |         |                                 |              |                               | incorrectl<br>y                                          |
| Q1669-09        | VL042189.<br>D | m/p-Xylene           | SA<br>M | 3/31/202<br>5<br>11:25:37<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:07:08<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-09        | VL042189.<br>D | Propene              | SA<br>M | 3/31/202<br>5<br>11:25:37<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:07:08<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-<br>09DUP | VL042190.<br>D | Benzene              | SA<br>M | 3/31/202<br>5<br>11:27:04<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:07:18<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-<br>09DUP | VL042190.<br>D | Carbon Tetrachloride | SA<br>M | 3/31/202<br>5<br>11:27:04<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:07:18<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-<br>09DUP | VL042190.<br>D | m/p-Xylene           | SA<br>M | 3/31/202<br>5<br>11:27:04<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:07:18<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-<br>09DUP | VL042190.<br>D | Toluene              | SA<br>M | 3/31/202<br>5<br>11:27:04<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:07:18<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-07DL      | VL042192.<br>D | 4-Methyl-2-Pentanone | SA<br>M | 3/31/202<br>5<br>11:27:27<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:07:28<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-07DL      | VL042192.<br>D | m/p-Xylene           | SA<br>M | 3/31/202<br>5<br>11:27:27<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:07:28<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1669-01DL      | VL042195.<br>D | m/p-Xylene           | SA<br>M | 3/31/202<br>5<br>11:27:14<br>AM | MMDadod<br>a | 4/3/202<br>5<br>8:07:50<br>AM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |

|             |            |                        |     |                          |          |                        |                                         |
|-------------|------------|------------------------|-----|--------------------------|----------|------------------------|-----------------------------------------|
| Q1669-01DL  | VL042195.D | Propene                | SAM | 3/31/2025<br>11:27:14 AM | MMDadoda | 4/3/2025<br>8:07:50 AM | Peak Integrated by Software incorrectly |
| Q1669-01DUP | VL042196.D | 2,2,4-Trimethylpentane | SAM | 3/31/2025<br>11:25:32 AM | MMDadoda | 4/3/2025<br>8:07:55 AM | Peak Integrated by Software incorrectly |
| Q1669-01DUP | VL042196.D | 4-Methyl-2-Pentanone   | SAM | 3/31/2025<br>11:25:32 AM | MMDadoda | 4/3/2025<br>8:07:55 AM | Peak Integrated by Software incorrectly |
| Q1669-01DUP | VL042196.D | Cyclohexane            | SAM | 3/31/2025<br>11:25:32 AM | MMDadoda | 4/3/2025<br>8:07:55 AM | Peak Integrated by Software incorrectly |
| Q1669-01DUP | VL042196.D | Heptane                | SAM | 3/31/2025<br>11:25:32 AM | MMDadoda | 4/3/2025<br>8:07:55 AM | Peak Integrated by Software incorrectly |
| Q1669-05    | VL042197.D | Carbon Tetrachloride   | SAM | 3/31/2025<br>11:26:03 AM | MMDadoda | 4/3/2025<br>8:08:00 AM | Peak Integrated by Software incorrectly |
| Q1669-05    | VL042197.D | Chlorodifluoromethane  | SAM | 3/31/2025<br>11:26:03 AM | MMDadoda | 4/3/2025<br>8:08:00 AM | Peak Integrated by Software incorrectly |
| Q1669-05    | VL042197.D | Cyclohexane            | SAM | 3/31/2025<br>11:26:03 AM | MMDadoda | 4/3/2025<br>8:08:00 AM | Peak Integrated by Software incorrectly |
| Q1669-05    | VL042197.D | Propene                | SAM | 3/31/2025<br>11:26:03 AM | MMDadoda | 4/3/2025<br>8:08:00 AM | Peak Integrated by Software incorrectly |
| Q1669-05    | VL042197.D | Tetrachloroethene      | SAM | 3/31/2025                | MMDadoda | 4/3/2025               | Peak Integrated                         |

|          |            |                        |     |                       |          |                     |                                          |
|----------|------------|------------------------|-----|-----------------------|----------|---------------------|------------------------------------------|
|          |            |                        |     | 11:26:03 AM           |          | 8:08:00 AM          | d by Software incorrectl y               |
| Q1669-05 | VL042197.D | Tetrahydrofuran        | SAM | 3/31/2025 11:26:03 AM | MMDadoda | 4/3/2025 8:08:00 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | 2,2,4-Trimethylpentane | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | Carbon Tetrachloride   | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | Cyclohexane            | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | Heptane                | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | n-propylbenzene        | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | Trichloroethene        | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-08 | VL042199.D | Carbon Tetrachloride   | SAM | 3/31/2025 11:25:20 AM | MMDadoda | 4/3/2025 8:08:09 AM | Peak Integrated by Software incorrectl y |
| Q1669-08 | VL042199.D | Chlorobenzene          | SAM | 3/31/2025 11:25:20 AM | MMDadoda | 4/3/2025 8:08:09 AM | Peak Integrated by Software              |

|          |            |                       |     |                          |          |                        |                                         |
|----------|------------|-----------------------|-----|--------------------------|----------|------------------------|-----------------------------------------|
|          |            |                       |     |                          |          |                        | incorrectly                             |
| Q1669-08 | VL042199.D | Chlorodifluoromethane | SAM | 3/31/2025<br>11:25:20 AM | MMDadoda | 4/3/2025<br>8:08:09 AM | Peak Integrated by Software incorrectly |
| Q1669-08 | VL042199.D | Heptane               | SAM | 3/31/2025<br>11:25:20 AM | MMDadoda | 4/3/2025<br>8:08:09 AM | Peak Integrated by Software incorrectly |
| Q1669-08 | VL042199.D | m/p-Xylene            | SAM | 3/31/2025<br>11:25:20 AM | MMDadoda | 4/3/2025<br>8:08:09 AM | Peak Integrated by Software incorrectly |
| Q1669-08 | VL042199.D | Propene               | SAM | 3/31/2025<br>11:25:20 AM | MMDadoda | 4/3/2025<br>8:08:09 AM | Peak Integrated by Software incorrectly |

| Manual Integration Report |          |            |         |
|---------------------------|----------|------------|---------|
| Sequence                  | vl033125 | Instrument | MSVOA_I |

| Sample ID   | File ID    | Parameter             | Review By | Review On              | Supervised By | Supervised On          | Reason                                  |
|-------------|------------|-----------------------|-----------|------------------------|---------------|------------------------|-----------------------------------------|
| VSTDCCC010  | VL042201.D | 1,1,2-Trichloroethane | SAM       | 4/1/2025<br>7:30:55 AM | MMDadoda      | 4/1/2025<br>1:19:08 PM | Peak Integrated by Software incorrectly |
| VSTDCCC010  | VL042201.D | 1,4-Dioxane           | SAM       | 4/1/2025<br>7:30:55 AM | MMDadoda      | 4/1/2025<br>1:19:08 PM | Peak Integrated by Software incorrectly |
| VSTDCCC010  | VL042201.D | m/p-Xylene            | SAM       | 4/1/2025<br>7:30:55 AM | MMDadoda      | 4/1/2025<br>1:19:08 PM | Peak Integrated by Software incorrectly |
| VL0331ABS01 | VL042203.D | m/p-Xylene            | SAM       | 4/1/2025               | MMDadoda      | 4/1/2025<br>1:19:10 PM | Peak Integrate                          |

|             |            |                       |     |                     |          |                     |                                          |
|-------------|------------|-----------------------|-----|---------------------|----------|---------------------|------------------------------------------|
|             |            |                       |     | 7:31:07 AM          |          |                     | d by Software incorrectl y               |
| Q1669-06    | VL042204.D | 4-Methyl-2-Pentanone  | SAM | 4/1/2025 7:47:12 AM | MMDadoda | 4/1/2025 1:19:11 PM | Peak Integrated by Software incorrectl y |
| Q1669-06    | VL042204.D | Trichloroethene       | SAM | 4/1/2025 7:47:12 AM | MMDadoda | 4/1/2025 1:19:11 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DL  | VL042205.D | 4-Methyl-2-Pentanone  | SAM | 4/1/2025 7:47:17 AM | MMDadoda | 4/1/2025 1:19:13 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DL  | VL042205.D | Heptane               | SAM | 4/1/2025 7:47:17 AM | MMDadoda | 4/1/2025 1:19:13 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DL  | VL042205.D | Tetrahydrofuran       | SAM | 4/1/2025 7:47:17 AM | MMDadoda | 4/1/2025 1:19:13 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DUP | VL042206.D | 4-Methyl-2-Pentanone  | SAM | 4/1/2025 7:31:12 AM | MMDadoda | 4/1/2025 1:19:14 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DUP | VL042206.D | Naphthalene,2-methyl- | SAM | 4/1/2025 7:31:12 AM | MMDadoda | 4/1/2025 1:19:14 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DUP | VL042206.D | Tetrachloroethene     | SAM | 4/1/2025 7:31:12 AM | MMDadoda | 4/1/2025 1:19:14 PM | Peak Integrated by Software incorrectl y |



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

**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- 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:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(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 #: Q1669

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: 04/07/2025