

## Cover Page

**Order ID :** P5093

**Project ID :** MC054.36 23-8-1 LM - Landing Lane New Brunswick

**Client :** R3M Engineering, Inc.

**Lab Sample Number**

P5093-01  
P5093-02  
P5093-03

**Client Sample Number**

LL-001  
LL-001-FB-12-4-24  
TB-12-4-24

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: 12/10/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

|           |                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>J</b>  | Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).                                                                                                                                                                                  |
| <b>U</b>  | Indicates the analyte was analyzed for, but not detected.                                                                                                                                                                                                                                                                                                                     |
| <b>ND</b> | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                      |
| <b>E</b>  | Indicates the reported value is estimated because of the presence of interference                                                                                                                                                                                                                                                                                             |
| <b>M</b>  | Indicates Duplicate injection precision not met.                                                                                                                                                                                                                                                                                                                              |
| <b>N</b>  | Indicates the spiked sample recovery is not within control limits.                                                                                                                                                                                                                                                                                                            |
| <b>S</b>  | Indicates the reported value was determined by the Method of Standard Addition (MSA).                                                                                                                                                                                                                                                                                         |
| <b>*</b>  | Indicates that the duplicate analysis is not within control limits.                                                                                                                                                                                                                                                                                                           |
| <b>+</b>  | Indicates the correlation coefficient for the MSA is less than 0.995.                                                                                                                                                                                                                                                                                                         |
| <b>D</b>  | Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.                                                                                                                                                                                                                                       |
| <b>M</b>  | Method qualifiers<br>“P” for ICP instrument<br>“PM” for ICP when Microwave Digestion is used<br>“CV” for Manual Cold Vapor AA<br>“AV” for automated Cold Vapor AA<br>“CA” for MIDI-Distillation Spectrophotometric<br>“AS” for Semi -Automated Spectrophotometric<br>“C” for Manual Spectrophotometric<br>“T” for Titrimetric<br>“NR” for analyte not required to be analyzed |
| <b>OR</b> | Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                              |
| <b>Q</b>  | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                |
| <b>H</b>  | Sample Analysis Out Of Hold Time                                                                                                                                                                                                                                                                                                                                              |

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: P5093

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: PRADIP PRAJAPATI

Date: 12/10/2024

## LAB CHRONICLE

|                 |                       |                   |                                                 |
|-----------------|-----------------------|-------------------|-------------------------------------------------|
| <b>OrderID:</b> | P5093                 | <b>OrderDate:</b> | 12/4/2024 12:24:38 PM                           |
| <b>Client:</b>  | R3M Engineering, Inc. | <b>Project:</b>   | MC054.36 23-8-1 LM - Landing Lane New Brunswick |
| <b>Contact:</b> | Stacey L. Felts-Bock  | <b>Location:</b>  | L41,VOA Ref. #3 Water                           |

| LabID    | ClientID          | Matrix | Test    | Method | Sample Date       | Prep Date | Anal Date         | Received |
|----------|-------------------|--------|---------|--------|-------------------|-----------|-------------------|----------|
| P5093-01 | LL-001            | WATER  |         |        | 12/04/24<br>11:05 | 12/07/24  | 12/09/24<br>12:47 | 12/04/24 |
|          |                   |        | Cyanide | 9012B  |                   |           |                   |          |
|          |                   |        | TOC     | 9060A  |                   |           | 12/05/24<br>13:09 |          |
| P5093-02 | LL-001-FB-12-4-24 | WATER  |         |        | 12/04/24<br>11:00 | 12/07/24  | 12/09/24<br>12:47 | 12/04/24 |
|          |                   |        | Cyanide | 9012B  |                   |           |                   |          |
|          |                   |        | TOC     | 9060A  |                   |           | 12/05/24<br>14:29 |          |



# SAMPLE DATA

## Report of Analysis

|                   |                                                 |                 |                |
|-------------------|-------------------------------------------------|-----------------|----------------|
| Client:           | R3M Engineering, Inc.                           | Date Collected: | 12/04/24 11:05 |
| Project:          | MC054.36 23-8-1 LM - Landing Lane New Brunswick | Date Received:  | 12/04/24       |
| Client Sample ID: | LL-001                                          | SDG No.:        | P5093          |
| Lab Sample ID:    | P5093-01                                        | Matrix:         | WATER          |
|                   |                                                 | % Solid:        | 0              |

| Parameter | Conc.  | Qua. | DF | MDL     | LOQ / CRQL | Units | Prep Date      | Date Ana.      | Ana Met. |
|-----------|--------|------|----|---------|------------|-------|----------------|----------------|----------|
| Cyanide   | 0.0010 | J    | 1  | 0.00099 | 0.0050     | mg/L  | 12/07/24 10:00 | 12/09/24 12:47 | 9012B    |
| TOC       | 1.90   |      | 1  | 0.19    | 1.00       | mg/L  |                | 12/05/24 13:09 | 9060A    |

Comments: \_\_\_\_\_

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

## Report of Analysis

|                   |                                                 |                 |                |
|-------------------|-------------------------------------------------|-----------------|----------------|
| Client:           | R3M Engineering, Inc.                           | Date Collected: | 12/04/24 11:00 |
| Project:          | MC054.36 23-8-1 LM - Landing Lane New Brunswick | Date Received:  | 12/04/24       |
| Client Sample ID: | LL-001-FB-12-4-24                               | SDG No.:        | P5093          |
| Lab Sample ID:    | P5093-02                                        | Matrix:         | WATER          |
|                   |                                                 | % Solid:        | 0              |

| Parameter | Conc.   | Qua. | DF | MDL     | LOQ / CRQL | Units | Prep Date      | Date Ana.      | Ana Met. |
|-----------|---------|------|----|---------|------------|-------|----------------|----------------|----------|
| Cyanide   | 0.00099 | U    | 1  | 0.00099 | 0.0050     | mg/L  | 12/07/24 10:00 | 12/09/24 12:47 | 9012B    |
| TOC       | 0.82    | J    | 1  | 0.19    | 1.00       | mg/L  |                | 12/05/24 14:29 | 9060A    |

Comments: \_\_\_\_\_

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



# QC RESULT SUMMARY

## Initial and Continuing Calibration Verification

**Client:** R3M Engineering, Inc.

**SDG No.:** P5093

**Project:** MC054.36 23-8-1 LM - Landing Lane New Brunswick

**RunNo.:** LB133751

| Analyte                       | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|-------------------------------|-------|--------|------------|------------|------------------------|---------------|
| Sample ID: <b>ICV1</b><br>TOC | mg/L  | 10.2   | 10         | 102        | 90-110                 | 09/25/2024    |
| Sample ID: <b>CCV1</b><br>TOC | mg/L  | 10.7   | 10         | 107        | 90-110                 | 12/05/2024    |
| Sample ID: <b>CCV2</b><br>TOC | mg/L  | 10.9   | 10         | 109        | 90-110                 | 12/05/2024    |
| Sample ID: <b>CCV3</b><br>TOC | mg/L  | 10.6   | 10         | 106        | 90-110                 | 12/05/2024    |

## Initial and Continuing Calibration Verification

**Client:** R3M Engineering, Inc.

**SDG No.:** P5093

**Project:** MC054.36 23-8-1 LM - Landing Lane New Brunswick

**RunNo.:** LB133847

| Analyte    |      | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|------------|------|-------|--------|------------|------------|------------------------|---------------|
| Sample ID: | ICV1 |       |        |            |            |                        |               |
| Cyanide    |      | mg/L  | 0.1    | 0.099      | 101        | 90-110                 | 12/09/2024    |
| Sample ID: | CCV1 |       |        |            |            |                        |               |
| Cyanide    |      | mg/L  | 0.26   | 0.25       | 104        | 90-110                 | 12/09/2024    |
| Sample ID: | CCV2 |       |        |            |            |                        |               |
| Cyanide    |      | mg/L  | 0.25   | 0.25       | 100        | 90-110                 | 12/09/2024    |
| Sample ID: | CCV3 |       |        |            |            |                        |               |
| Cyanide    |      | mg/L  | 0.27   | 0.25       | 108        | 90-110                 | 12/09/2024    |



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

### Initial and Continuing Calibration Blank Summary

**Client:** R3M Engineering, Inc.

**SDG No.:** P5093

**Project:** MC054.36 23-8-1 LM - Landing Lane New Brunswick

**RunNo.:** LB133751

| Analyte                       | Units | Result   | Acceptance<br>Limits | Conc<br>Qual | MDL  | RDL | Analysis<br>Date |
|-------------------------------|-------|----------|----------------------|--------------|------|-----|------------------|
| Sample ID: <b>ICB1</b><br>TOC | mg/L  | < 0.5000 | 0.5000               | U            | 0.19 | 1   | 09/25/2024       |
| Sample ID: <b>CCB1</b><br>TOC | mg/L  | 0.43     | 0.5000               | J            | 0.19 | 1   | 12/05/2024       |
| Sample ID: <b>CCB2</b><br>TOC | mg/L  | 0.39     | 0.5000               | J            | 0.19 | 1   | 12/05/2024       |
| Sample ID: <b>CCB3</b><br>TOC | mg/L  | 0.23     | 0.5000               | J            | 0.19 | 1   | 12/05/2024       |

### Initial and Continuing Calibration Blank Summary

**Client:** R3M Engineering, Inc.

**SDG No.:** P5093

**Project:** MC054.36 23-8-1 LM - Landing Lane New Brunswick

**RunNo.:** LB133847

| Analyte                           | Units | Result   | Acceptance Limits | Conc Qual | MDL     | RDL   | Analysis Date |
|-----------------------------------|-------|----------|-------------------|-----------|---------|-------|---------------|
| Sample ID: <b>ICB1</b><br>Cyanide | mg/L  | < 0.0025 | 0.0025            | U         | 0.00099 | 0.005 | 12/09/2024    |
| Sample ID: <b>CCB1</b><br>Cyanide | mg/L  | < 0.0025 | 0.0025            | U         | 0.00099 | 0.005 | 12/09/2024    |
| Sample ID: <b>CCB2</b><br>Cyanide | mg/L  | < 0.0025 | 0.0025            | U         | 0.00099 | 0.005 | 12/09/2024    |
| Sample ID: <b>CCB3</b><br>Cyanide | mg/L  | < 0.0025 | 0.0025            | U         | 0.00099 | 0.005 | 12/09/2024    |

### Preparation Blank Summary

**Client:** R3M Engineering, Inc.

**SDG No.:** P5093

**Project:** MC054.36 23-8-1 LM - Landing Lane New Brunswick

| Analyte               | Units                      | Result   | Acceptance<br>Limits | Conc<br>Qual | MDL     | RDL   | Analysis<br>Date |
|-----------------------|----------------------------|----------|----------------------|--------------|---------|-------|------------------|
| Sample ID:<br>TOC     | <b>LB133751BLW</b><br>mg/L | 0.38     | 0.5000               | J            | 0.19    | 1     | 12/05/2024       |
| Sample ID:<br>Cyanide | <b>PB165498BL</b><br>mg/L  | < 0.0025 | 0.0025               | U            | 0.00099 | 0.005 | 12/09/2024       |

### Matrix Spike Summary

|                   |                                                 |                                         |          |
|-------------------|-------------------------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | R3M Engineering, Inc.                           | <b>SDG No.:</b>                         | P5093    |
| <b>Project:</b>   | MC054.36 23-8-1 LM - Landing Lane New Brunswick | <b>Sample ID:</b>                       | P5093-01 |
| <b>Client ID:</b> | LL-001MS                                        | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| TOC     | mg/L  | 75-125                 | 11.5             |                    | 1.90             |                    | 10             | 1                  | 96       |      | 12/05/2024       |

### Matrix Spike Summary

|                   |                                                 |                                         |          |
|-------------------|-------------------------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | R3M Engineering, Inc.                           | <b>SDG No.:</b>                         | P5093    |
| <b>Project:</b>   | MC054.36 23-8-1 LM - Landing Lane New Brunswick | <b>Sample ID:</b>                       | P5093-01 |
| <b>Client ID:</b> | LL-001MSD                                       | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| TOC     | mg/L  | 75-125                 | 11.6             |                    | 1.90             |                    | 10             | 1                  | 97       |      | 12/05/2024       |

### Matrix Spike Summary

|                   |                                                 |                                         |          |
|-------------------|-------------------------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | R3M Engineering, Inc.                           | <b>SDG No.:</b>                         | P5093    |
| <b>Project:</b>   | MC054.36 23-8-1 LM - Landing Lane New Brunswick | <b>Sample ID:</b>                       | P5093-02 |
| <b>Client ID:</b> | LL-001-FB-12-4-24MS                             | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Cyanide | mg/L  | 75-125                 | 0.038            |                    | 0.00099          | U                  | 0.04           | 1                  | 95       |      | 12/09/2024       |

## Matrix Spike Summary

|                   |                                                 |                                         |          |
|-------------------|-------------------------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | R3M Engineering, Inc.                           | <b>SDG No.:</b>                         | P5093    |
| <b>Project:</b>   | MC054.36 23-8-1 LM - Landing Lane New Brunswick | <b>Sample ID:</b>                       | P5093-02 |
| <b>Client ID:</b> | LL-001-FB-12-4-24MSD                            | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Cyanide | mg/L  | 75-125                 | 0.038            |                    | 0.00099          | U                  | 0.04           | 1                  | 95       |      | 12/09/2024       |

## Duplicate Sample Summary

|                   |                                                 |                                         |          |
|-------------------|-------------------------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | R3M Engineering, Inc.                           | <b>SDG No.:</b>                         | P5093    |
| <b>Project:</b>   | MC054.36 23-8-1 LM - Landing Lane New Brunswick | <b>Sample ID:</b>                       | P5093-01 |
| <b>Client ID:</b> | LL-001MSD                                       | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| TOC     | mg/L  | +/-20               | 11.5             |                    | 11.6                |                    | 1                  | 1          |      | 12/05/2024       |

## Duplicate Sample Summary

|                                                                 |                                           |
|-----------------------------------------------------------------|-------------------------------------------|
| <b>Client:</b> R3M Engineering, Inc.                            | <b>SDG No.:</b> P5093                     |
| <b>Project:</b> MC054.36 23-8-1 LM - Landing Lane New Brunswick | <b>Sample ID:</b> P5093-02                |
| <b>Client ID:</b> LL-001-FB-12-4-24DUP                          | <b>Percent Solids for Spike Sample:</b> 0 |

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Cyanide | mg/L  | +/-20               | 0.00099          | U                  | 0.00099             | U                  | 1                  | 0          |      | 12/09/2024       |

## Duplicate Sample Summary

|                                                                 |                                           |
|-----------------------------------------------------------------|-------------------------------------------|
| <b>Client:</b> R3M Engineering, Inc.                            | <b>SDG No.:</b> P5093                     |
| <b>Project:</b> MC054.36 23-8-1 LM - Landing Lane New Brunswick | <b>Sample ID:</b> P5093-02                |
| <b>Client ID:</b> LL-001-FB-12-4-24MSD                          | <b>Percent Solids for Spike Sample:</b> 0 |

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Cyanide | mg/L  | +/-20               | 0.038            |                    | 0.038               |                    | 1                  | 0          |      | 12/09/2024       |

### Laboratory Control Sample Summary

|                 |                                                 |                 |          |
|-----------------|-------------------------------------------------|-----------------|----------|
| <b>Client:</b>  | R3M Engineering, Inc.                           | <b>SDG No.:</b> | P5093    |
| <b>Project:</b> | MC054.36 23-8-1 LM - Landing Lane New Brunswick | <b>Run No.:</b> | LB133751 |

| Analyte   | Units       | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|-------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB133751BSW |            |        |                 |            |                 |                     |               |
| TOC       | mg/L        | 10         | 10.9   |                 | 109        | 1               | 90-110              | 12/05/2024    |

### Laboratory Control Sample Summary

|                 |                                                 |                 |          |
|-----------------|-------------------------------------------------|-----------------|----------|
| <b>Client:</b>  | R3M Engineering, Inc.                           | <b>SDG No.:</b> | P5093    |
| <b>Project:</b> | MC054.36 23-8-1 LM - Landing Lane New Brunswick | <b>Run No.:</b> | LB133847 |

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | PB165498BS |            |        |                 |            |                 |                     |               |
| Cyanide   | mg/L       | 0.1        | 0.10   |                 | 100        | 1               | 85-115              | 12/09/2024    |



# RAW DATA

| Sample ID        | Result     | Std. Dev. | RSD      | Mode | ALT |
|------------------|------------|-----------|----------|------|-----|
| CCV1             | 10.6641    | 0.2530    | 2.37     | TOC  |     |
| CCB1             | 0.4337     | 0.0702    | 16.19    | TOC  |     |
| LB133751BLW      | 0.3783     | 0.0391    | 10.34    | TOC  |     |
| LB133751BSW..... | 10.9337... | 0.2498..  | 2.29...  | TOC  | ..  |
| P5093-01         | 1.8973     | 0.0922    | 4.86     | TOC  |     |
| P5093-01MS       | 11.5194    | 0.1960    | 1.70     | TOC  |     |
| P5093-01MSD..... | 11.5768... | 0.2131..  | 1.84...  | TOC  | ..  |
| P5093-02         | 0.8198     | 0.0684    | 8.35     | TOC  |     |
| CCV2             | 10.8708    | 0.2710    | 2.49     | TOC  |     |
| CCB2.....        | 0.3912...  | 0.0348..  | 8.89...  | TOC  | ..  |
| P5145-01X10      | 4.8653     | 0.1555    | 3.20     | TOC  |     |
| CCV3             | 10.6386    | 0.1595    | 1.50     | TOC  |     |
| CCB3.....        | 0.2334...  | 0.1644..  | 70.45... | TOC  | ..  |

| Method ID       | Sample Type | Vial    | Timestamp        | Message               |
|-----------------|-------------|---------|------------------|-----------------------|
| TOC 0 - 20 ppmC | Sample      | 11      | 2024/12/05 11:26 |                       |
| TOC 0 - 20 ppmC | Sample      | 12      | 2024/12/05 11:50 | Low Sample Detected   |
| TOC 0 - 20 ppmC | Sample      | 13      | 2024/12/05 12:14 | Low Sample Detected   |
| TOC 0 - 20 ppmC | ...Sample   | .. 14.. | 2024/12/05 12:43 | ..                    |
| TOC 0 - 20 ppmC | Sample      | 15      | 2024/12/05 13:09 |                       |
| TOC 0 - 20 ppmC | Sample      | 16      | 2024/12/05 13:37 |                       |
| TOC 0 - 20 ppmC | ...Sample   | .. 16.. | 2024/12/05 14:05 | ..                    |
| TOC 0 - 20 ppmC | Sample      | 17      | 2024/12/05 14:29 |                       |
| TOC 0 - 20 ppmC | Sample      | 11      | 2024/12/05 14:58 |                       |
| TOC 0 - 20 ppmC | ...Sample   | .. 12.. | 2024/12/05 15:21 | ..Low Sample Detected |
| TOC 0 - 20 ppmC | Sample      | 18      | 2024/12/05 17:58 |                       |
| TOC 0 - 20 ppmC | Sample      | 14      | 2024/12/05 18:27 |                       |
| TOC 0 - 20 ppmC | ...Sample   | .. 13.. | 2024/12/05 18:50 | ..Low Sample Detected |

```
<<<Statistics>>>      Mean:   10.9337      Std Dev:   0.2498      RSD: 2.29
```

Sample ID: P5093-01 Mode: TOC  
Method: TOC 0 - 20 ppmC Filename: 12051035  
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/05 13:09  
Operator ID: NF IZ Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 1.9355 | 0.9678 | 65706    | -2.938                | -2.740             | 151                 |
| 2     | 1.7617 | 0.8808 | 59804    | -2.948                | -2.749             | 153                 |
| 3     | 1.9248 | 0.9624 | 65341    | -2.936                | -2.743             | 154                 |
| 4     | 1.9673 | 0.9836 | 66784    | -2.935                | -2.735             | 154                 |

<<<Statistics>>> Mean: 1.8973 Std Dev: 0.0922 RSD: 4.86

Sample ID: P5093-01MS Mode: TOC  
Method: TOC 0 - 20 ppmC Filename: 12051035  
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/05 13:37  
Operator ID: NF IZ Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 11.4999 | 5.7500 | 390390   | -2.999                | -2.810             | 195                 |
| 2     | 11.3477 | 5.6739 | 385222   | -2.922                | -2.725             | 187                 |
| 3     | 11.4319 | 5.7160 | 388080   | -2.912                | -2.725             | 186                 |
| 4     | 11.7983 | 5.8992 | 400520   | -2.919                | -2.722             | 190                 |

<<<Statistics>>> Mean: 11.5194 Std Dev: 0.1960 RSD: 1.70

Sample ID: P5093-01MSD Mode: TOC  
Method: TOC 0 - 20 ppmC Filename: 12051035  
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/05 14:05  
Operator ID: NF IZ Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 11.3695 | 5.6847 | 385962   | -2.873                | -2.676             | 195                 |
| 2     | 11.4326 | 5.7163 | 388103   | -2.832                | -2.634             | 190                 |
| 3     | 11.6793 | 5.8396 | 396478   | -2.840                | -2.642             | 191                 |
| 4     | 11.8257 | 5.9129 | 401449   | -2.835                | -2.645             | 191                 |

<<<Statistics>>> Mean: 11.5768 Std Dev: 0.2131 RSD: 1.84

Sample ID: P5093-02 Mode: TOC  
Method: TOC 0 - 20 ppmC Filename: 12051035  
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/05 14:29  
Operator ID: NF IZ Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 0.8792 | 0.4396 | 29846    | -2.866                | -2.671             | 116                 |
| 2     | 0.7543 | 0.3771 | 25605    | -2.857                | -2.658             | 116                 |
| 3     | 0.7670 | 0.3835 | 26038    | -2.856                | -2.658             | 120                 |
| 4     | 0.8785 | 0.4392 | 29821    | -2.860                | -2.661             | 125                 |

<<<Statistics>>> Mean: 0.8198 Std Dev: 0.0684 RSD: 8.35

Sample ID: CCV2 Mode: TOC  
Method: TOC 0 - 20 ppmC Filename: 12051035  
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/05 14:58

Operator ID: NF IZ

Sample Type: Sample

Reviewed By:Iwona  
On:12/9/2024 2:58:45  
PM  
Inst Id :Appolo-9000  
LB :LB133751

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 11.2066 | 5.6033 | 380432   | -2.926                | -2.727             | 200                 |
| 2     | 10.8408 | 5.4204 | 368014   | -2.937                | -2.741             | 200                 |
| 3     | 10.5449 | 5.2724 | 357968   | -2.927                | -2.729             | 195                 |
| 4     | 10.8907 | 5.4453 | 369708   | -2.958                | -2.764             | 198                 |

<<<Statistics>>> Mean: 10.8708 Std Dev: 0.2710 RSD: 2.49

Sample ID: CCB2

Mode: TOC

Method: TOC 0 - 20 ppmC

Filename: 12051035

Cal. Curve: TOC WATER 0-20PPM

Timestamp: 2024/12/05 15:21

Operator ID: NF IZ

Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 0.4032 | 0.2016 | 13686    | -3.014                | -2.814             | 93                  |
| 2     | 0.4015 | 0.2008 | 13631    | -2.978                | -2.908             | 120                 |
| 3     | 0.4196 | 0.2098 | 14245    | -3.014                | -2.933             | 120                 |
| 4     | 0.3405 | 0.1703 | 11561    | -2.969                | -2.908             | 120                 |

Last Message: Low Sample Detected

<<<Statistics>>> Mean: 0.3912 Std Dev: 0.0348 RSD: 8.89

Sample ID: P5145-01X10

Mode: TOC

Method: TOC 0 - 20 ppmC

Filena

me: 12051732

Cal. Curve: TOC WATER 0-20PPM

Timestamp: 2024/12/05 17:58

Operator ID: NF IZ

Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 4.9665 | 2.4832 | 168597   | -2.956                | -2.757             | 175                 |
| 2     | 4.7504 | 2.3752 | 161264   | -2.895                | -2.699             | 178                 |
| 3     | 4.7156 | 2.3578 | 160080   | -2.890                | -2.702             | 177                 |
| 4     | 5.0286 | 2.5143 | 170707   | -2.943                | -2.751             | 174                 |

<<<Statistics>>> Mean: 4.8653 Std Dev: 0.1555 RSD: 3.20

Sample ID: CCV3

Mode: TOC

Method: TOC 0 - 20 ppmC

Filename: 12051732

Cal. Curve: TOC WATER 0-20PPM

Timestamp: 2024/12/05 18:27

Operator ID: NF IZ

Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 10.8681 | 5.4340 | 368940   | -2.984                | -2.785             | 207                 |
| 2     | 10.5849 | 5.2925 | 359328   | -2.894                | -2.704             | 206                 |
| 3     | 10.4993 | 5.2496 | 356419   | -2.886                | -2.687             | 203                 |
| 4     | 10.6022 | 5.3011 | 359914   | -2.901                | -2.703             | 206                 |

<<<Statistics>>> Mean: 10.6386 Std Dev: 0.1595 RSD: 1.50

Sample ID: CCB3

Mode: TOC

Method: TOC 0 - 20 ppmC

Filename: 12051732

Cal. Curve: TOC WATER 0-20PPM

Timestamp: 2024/12/05 18:50

Operator ID: NF IZ

Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 0.3890 | 0.1945 | 13206    | -2.989                | -2.789             | 95                  |
| 2     | 0.3607 | 0.1804 | 12245    | -2.976                | -2.779             | 93                  |
| 3     | 0.1090 | 0.0545 | 3702     | -2.929                | -2.976             | 120                 |
| 4     | 0.0747 | 0.0374 | 2537     | -3.011                | -3.078             | 120                 |

-----  
Last Message: Low Sample Detected

<<<Statistics>>>    Mean:    0.2334    Std Dev:    0.1644    RSD: 70.45

=====

| Sample ID    | Result    | Std. Dev. | RSD      | Mode | ALT |
|--------------|-----------|-----------|----------|------|-----|
| 0.0PPM       | 3350      | 1590      | 47.47    | TOC  |     |
| 0.5PPM       | 25944     | 1031      | 3.97     | TOC  |     |
| 1.0PPM       | 45348     | 1939      | 4.27     | TOC  |     |
| 2.0PPM.....  | 78757...  | 1236..    | 1.57...  | TOC  | ..  |
| 5.0PPM       | 189582    | 6966      | 3.67     | TOC  |     |
| 10.0PPM      | 356566    | 4394      | 1.23     | TOC  |     |
| 20.0PPM..... | 684846... | 13524..   | 1.97...  | TOC  | ..  |
| ICV1         | 10.1602   | 0.1106    | 1.09     | TOC  |     |
| ICB1         | 0.1685    | 0.0421    | 25.01    | TOC  |     |
| IC-20.....   | 0.1694... | 0.0547..  | 32.30... | TOC  | ..  |
| IC-R         | 0.1653    | 0.0346    | 20.94    | TOC  |     |

| Method ID       | Sample Type     | Vial    | Timestamp        | Message               |
|-----------------|-----------------|---------|------------------|-----------------------|
| TOC 0 - 20 ppmC | TOC Standard    | 1       | 2024/09/25 11:13 | Low Sample Detected   |
| TOC 0 - 20 ppmC | TOC Standard    | 2       | 2024/09/25 12:02 |                       |
| TOC 0 - 20 ppmC | TOC Standard    | 3       | 2024/09/25 12:52 |                       |
| TOC 0 - 20 ppmC | ...TOC Standard | .. 4..  | 2024/09/25 13:18 | ..                    |
| TOC 0 - 20 ppmC | TOC Standard    | 5       | 2024/09/25 13:45 |                       |
| TOC 0 - 20 ppmC | TOC Standard    | 6       | 2024/09/25 14:12 |                       |
| TOC 0 - 20 ppmC | ...TOC Standard | .. 7..  | 2024/09/25 14:40 | ..                    |
| TOC 0 - 20 ppmC | Sample          | 14      | 2024/09/25 15:07 |                       |
| TOC 0 - 20 ppmC | Sample          | 12      | 2024/09/25 15:31 | Low Sample Detected   |
| TOC 0 - 20 ppmC | ...Sample       | .. 13.. | 2024/09/25 15:54 | ..Low Sample Detected |
| TOC 0 - 20 ppmC | Sample          | 8       | 2024/09/25 16:18 | Low Sample Detected   |

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 3916     | -2.644                | -2.613             | 120                 |
| 2     |       |      | 5339     | -2.654                | -2.615             | 120                 |
| 3     |       |      | 1929     | -2.655                | -2.674             | 120                 |
| 4     |       |      | 2215     | -2.660                | -2.636             | 120                 |

```
<<<Statistics>>>      Mean:      3350      Std Dev:      1590      RSD: 47.47
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 25019    | -2.849                | -2.652             | 147                 |
| 2     |       |      | 26723    | -2.855                | -2.656             | 150                 |
| 3     |       |      | 25092    | -2.861                | -2.663             | 153                 |
| 4     |       |      | 26944    | -2.879                | -2.682             | 148                 |

```
<<<Statistics>>>      Mean:      25944      Std Dev:      1031      RSD: 3.97
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 44529    | -2.979                | -2.784             | 155                 |
| 2     |       |      | 43245    | -2.995                | -2.795             | 152                 |
| 3     |       |      | 47787    | -3.003                | -2.807             | 157                 |
| 4     |       |      | 45829    | -2.984                | -2.785             | 153                 |

```
<<<Statistics>>>      Mean:      45348      Std Dev:      1939      RSD: 4.27
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 77003    | -3.022                | -2.827             | 154                 |
| 2     |       |      | 79901    | -3.020                | -2.821             | 158                 |
| 3     |       |      | 79145    | -2.986                | -2.786             | 160                 |
| 4     |       |      | 78978    | -2.987                | -2.787             | 156                 |

```
<<<Statistics>>>    Mean:      78757    Std Dev:    1236    RSD: 1.57
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 198547   | -3.011                | -2.812             | 170                 |
| 2     |       |      | 190541   | -2.994                | -2.797             | 163                 |
| 3     |       |      | 187362   | -2.998                | -2.798             | 165                 |
| 4     |       |      | 181877   | -2.957                | -2.758             | 165                 |

<<<Statistics>>>    Mean:    189582    Std Dev:    6966    RSD: 3.67

Sample ID: 10.0PPM  
Method: TOC 0 - 20 ppmC  
Cal. Curve: TOC WATER 0-20PPM  
Operator ID: NF IZ

Mode: TOC  
Filename: 09251050  
Timestamp: 2024/09/25 14:12  
Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 353287   | -3.003                | -2.806             | 174                 |
| 2     |       |      | 362185   | -2.970                | -2.770             | 171                 |
| 3     |       |      | 357930   | -2.931                | -2.731             | 174                 |
| 4     |       |      | 352861   | -2.910                | -2.711             | 169                 |

<<<Statistics>>>    Mean:    356566    Std Dev:    4394    RSD: 1.23

Sample ID: 20.0PPM  
Method: TOC 0 - 20 ppmC  
Cal. Curve: TOC WATER 0-20PPM  
Operator ID: NF IZ

Mode: TOC  
Filename: 09251050  
Timestamp: 2024/09/25 14:40  
Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 665638   | -2.929                | -2.730             | 183                 |
| 2     |       |      | 686130   | -2.882                | -2.683             | 191                 |
| 3     |       |      | 690849   | -2.884                | -2.685             | 185                 |
| 4     |       |      | 696765   | -2.868                | -2.670             | 184                 |

<<<Statistics>>>    Mean:    684846    Std Dev:    13524    RSD: 1.97

Sample ID: ICV1  
Method: TOC 0 - 20 ppmC  
Cal. Curve: TOC WATER 0-20PPM  
Operator ID: NF IZ

Mode: TOC  
Filename: 09251050  
Timestamp: 2024/09/25 15:07  
Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 10.0524 | 5.0262 | 341249   | -2.955                | -2.756             | 169                 |
| 2     | 10.1120 | 5.0560 | 343275   | -2.928                | -2.729             | 169                 |
| 3     | 10.1652 | 5.0826 | 345080   | -2.920                | -2.725             | 171                 |
| 4     | 10.3110 | 5.1555 | 350027   | -2.903                | -2.706             | 169                 |

<<<Statistics>>>    Mean:    10.1602    Std Dev:    0.1106    RSD: 1.09

Sample ID: ICB1  
Method: TOC 0 - 20 ppmC  
Cal. Curve: TOC WATER 0-20PPM  
Operator ID: NF IZ

Mode: TOC  
Filename: 09251050  
Timestamp: 2024/09/25 15:31  
Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 0.1868 | 0.0934 | 6340     | -3.005                | -2.908             | 120                 |
| 2     | 0.1290 | 0.0645 | 4379     | -2.978                | -2.916             | 120                 |
| 3     | 0.2191 | 0.1096 | 7439     | -2.995                | -2.919             | 120                 |
| 4     | 0.1390 | 0.0695 | 4718     | -2.969                | -2.868             | 120                 |

-----  
Last Message: Low Sample Detected

<<<Statistics>>> Mean: 0.1685 Std Dev: 0.0421 RSD: 25.01  
=====

Sample ID: IC-20 Mode: TOC  
Method: TOC 0 - 20 ppmC Filename: 09251050  
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 15:54  
Operator ID: NF IZ Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 0.1108 | 0.0554 | 3761     | -2.957                | -2.925             | 120                 |
| 2     | 0.1349 | 0.0675 | 4580     | -2.975                | -2.943             | 120                 |
| 3     | 0.2197 | 0.1099 | 7459     | -2.964                | -2.878             | 120                 |
| 4     | 0.2121 | 0.1061 | 7202     | -2.937                | -2.906             | 120                 |

-----  
Last Message: Low Sample Detected

<<<Statistics>>> Mean: 0.1694 Std Dev: 0.0547 RSD: 32.30  
=====

Sample ID: IC-R Mode: TOC  
Method: TOC 0 - 20 ppmC Filename: 09251050  
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 16:18  
Operator ID: NF IZ Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 0.1389 | 0.0694 | 4715     | -2.914                | -2.867             | 120                 |
| 2     | 0.1870 | 0.0935 | 6348     | -2.915                | -2.867             | 120                 |
| 3     | 0.2024 | 0.1012 | 6871     | -2.908                | -2.827             | 120                 |
| 4     | 0.1329 | 0.0665 | 4512     | -2.881                | -2.840             | 120                 |

-----  
Last Message: Low Sample Detected

<<<Statistics>>> Mean: 0.1653 Std Dev: 0.0346 RSD: 20.94  
=====

Calibration Report      Print Date/Time: 2024/09/25 14:41:00

Cal. Curve ID:                      TOC WATER 0-20PPM  
 Created:                              2024/09/25 14:40  
 Calibration Factor (m): 6.789e+04  
 Y Intercept (b):                    11061  
 r-squared:                            0.99944

| Standard ID | Y        | X Expected | Measured | Message | Date & Time      |
|-------------|----------|------------|----------|---------|------------------|
|             | Raw Data | ug C       | ug C     |         |                  |
| 0.0PPM      | 3350     | 0.000      | -0.114   | ~       | 2024/09/25 11:13 |
| 0.5PPM      | 25944    | 0.250      | 0.219    | -12.4   | 2024/09/25 12:02 |
| 1.0PPM      | 45348    | 0.500      | 0.505    | 1.0     | 2024/09/25 12:52 |
| 2.0PPM      | 78757    | 1.000      | 0.997    | -0.3    | 2024/09/25 13:18 |
| 5.0PPM      | 189582   | 2.500      | 2.629    | 5.2     | 2024/09/25 13:45 |
| 10.0PPM     | 356566   | 5.000      | 5.089    | 1.8     | 2024/09/25 14:12 |
| 20.0PPM     | 684846   | 10.000     | 9.924    | -0.8    | 2024/09/25 14:40 |

12  
 9/25/24

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC  
284 Sheffield Street, Mountainside, NJ 07092

12/9/2024 13:01

Reviewed by : NF

Instrument ID : Konelab

Test: Total CN

| Sample Id    | Result  | Dil. 1 + | Response | Errors |
|--------------|---------|----------|----------|--------|
| ICV1         | 102.772 | 0.0      | 0.071    |        |
| ICB1         | -0.077  | 0.0      | 0.002    |        |
| CCV1         | 256.384 | 0.0      | 0.174    |        |
| CCB1         | -0.300  | 0.0      | 0.002    |        |
| PB165498BL   | -0.420  | 0.0      | 0.002    |        |
| PB165498BS   | 102.356 | 0.0      | 0.071    |        |
| LOWPB165498  | 10.309  | 0.0      | 0.009    |        |
| HIGHPB165498 | 502.004 | 0.0      | 0.338    |        |
| P5093-01     | 1.018   | 0.0      | 0.003    |        |
| P5093-02     | -0.359  | 0.0      | 0.002    |        |
| P5093-02DUP  | -0.408  | 0.0      | 0.002    |        |
| P5093-02MS   | 38.453  | 0.0      | 0.028    |        |
| P5093-02MSD  | 37.749  | 0.0      | 0.027    |        |
| P5141-02     | 2.415   | 0.0      | 0.004    |        |
| CCV2         | 249.536 | 0.0      | 0.169    |        |
| CCB2         | -0.276  | 0.0      | 0.002    |        |
| PB165499BL   | -0.462  | 0.0      | 0.002    |        |
| PB165499BS   | 99.679  | 0.0      | 0.069    |        |
| P5117-02     | -0.014  | 0.0      | 0.002    |        |
| P5117-02DUP  | 0.480   | 0.0      | 0.003    |        |
| P5117-02MS   | 35.929  | 0.0      | 0.026    |        |
| P5117-02MSD  | 36.112  | 0.0      | 0.026    |        |
| CCV3         | 272.285 | 0.0      | 0.184    |        |
| CCB3         | -0.422  | 0.0      | 0.002    |        |

N 24  
Mean 72.698  
SD 125.7840  
CV% 173.02

(90-110) NF 12-09-2024  
103% 100% }

Aquakem v. 7.2AQ1

Results from time period:

Mon Dec 09 12:39:46 2024

Mon Dec 09 12:58:46 2024

| Sample Id    | Sam/Ctr/c/ | Test short r | Test type | Result   | Result unit | Result date and time | Stat |
|--------------|------------|--------------|-----------|----------|-------------|----------------------|------|
| 0.0PPBCN     | A          | Total CN     | P         | -1.0904  | µg/l        | 12/9/2024 11:10:55   |      |
| 5.0PPBCN     | A          | Total CN     | P         | 3.6171   | µg/l        | 12/9/2024 11:10:56   |      |
| 10PPBCN      | A          | Total CN     | P         | 10.2339  | µg/l        | 12/9/2024 11:10:57   |      |
| 50PPBCN      | A          | Total CN     | P         | 50.8618  | µg/l        | 12/9/2024 11:10:58   |      |
| 100PPBCN     | A          | Total CN     | P         | 103.4693 | µg/l        | 12/9/2024 11:10:59   |      |
| 250PPBCN     | A          | Total CN     | P         | 247.3582 | µg/l        | 12/9/2024 11:11:00   |      |
| 500PPBCN     | A          | Total CN     | P         | 500.55   | µg/l        | 12/9/2024 11:11:01   |      |
| ICV1         | S          | Total CN     | P         | 102.7721 | µg/l        | 12/9/2024 12:39:47   |      |
| ICB1         | S          | Total CN     | P         | -0.0775  | µg/l        | 12/9/2024 12:39:49   |      |
| CCV1         | S          | Total CN     | P         | 256.3836 | µg/l        | 12/9/2024 12:39:51   |      |
| CCB1         | S          | Total CN     | P         | -0.3002  | µg/l        | 12/9/2024 12:39:52   |      |
| PB165498BL   | S          | Total CN     | P         | -0.4199  | µg/l        | 12/9/2024 12:39:54   |      |
| PB165498BS   | S          | Total CN     | P         | 102.3559 | µg/l        | 12/9/2024 12:47:18   |      |
| LOWPB165498  | S          | Total CN     | P         | 10.309   | µg/l        | 12/9/2024 12:47:20   |      |
| HIGHPB165498 | S          | Total CN     | P         | 502.0039 | µg/l        | 12/9/2024 12:47:21   |      |
| P5093-01     | S          | Total CN     | P         | 1.0184   | µg/l        | 12/9/2024 12:47:23   |      |
| P5093-02     | S          | Total CN     | P         | -0.3594  | µg/l        | 12/9/2024 12:47:24   |      |
| P5093-02DUP  | S          | Total CN     | P         | -0.408   | µg/l        | 12/9/2024 12:47:25   |      |
| P5093-02MS   | S          | Total CN     | P         | 38.4534  | µg/l        | 12/9/2024 12:47:26   |      |
| P5093-02MSD  | S          | Total CN     | P         | 37.7492  | µg/l        | 12/9/2024 12:47:27   |      |
| P5141-02     | S          | Total CN     | P         | 2.4147   | µg/l        | 12/9/2024 12:54:54   |      |
| CCV2         | S          | Total CN     | P         | 249.5362 | µg/l        | 12/9/2024 12:54:55   |      |
| CCB2         | S          | Total CN     | P         | -0.2762  | µg/l        | 12/9/2024 12:54:56   |      |
| PB165499BL   | S          | Total CN     | P         | -0.4622  | µg/l        | 12/9/2024 12:54:57   |      |
| PB165499BS   | S          | Total CN     | P         | 99.6788  | µg/l        | 12/9/2024 12:54:58   |      |
| P5117-02     | S          | Total CN     | P         | -0.0135  | µg/l        | 12/9/2024 12:54:59   |      |
| P5117-02DUP  | S          | Total CN     | P         | 0.4804   | µg/l        | 12/9/2024 12:55:00   |      |
| P5117-02MS   | S          | Total CN     | P         | 35.9291  | µg/l        | 12/9/2024 12:55:01   |      |
| P5117-02MSD  | S          | Total CN     | P         | 36.1123  | µg/l        | 12/9/2024 12:55:02   |      |
| CCV3         | S          | Total CN     | P         | 272.2852 | µg/l        | 12/9/2024 12:58:45   |      |
| CCB3         | S          | Total CN     | P         | -0.4223  | µg/l        | 12/9/2024 12:58:46   |      |

Calibration results

Aquakem 7.2AQ1

Page: 1

CHEMTECH CONSULTING GROUP INC  
284 Sheffield Street, Mountainside, NJ 07092

12/9/2024 11:11

Reviewed by : NF

Instrument ID : Konelab

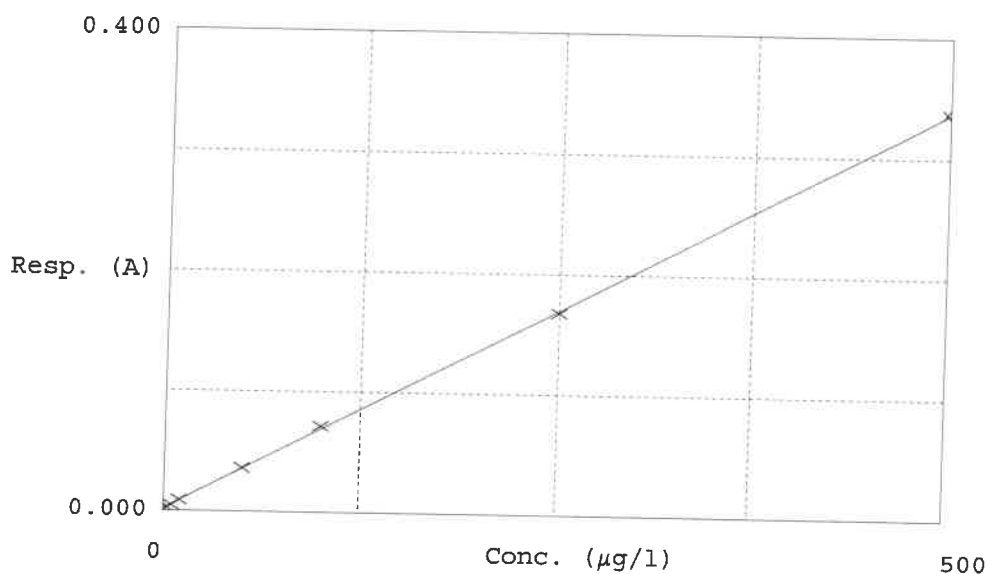
Test Total CN

Accepted 12/9/2024 11:11

Factor 1494  
Bias 0.002

Coeff. of det. 0.999887

Errors



|   | Calibrator | Response | Calc. con. | Conc.    | Re<br>Errors |
|---|------------|----------|------------|----------|--------------|
| 1 | 0.0PPBCN   | 0.001    | -1.0904    | 0.0000   |              |
| 2 | 5.0PPBCN   | 0.005    | 3.6171     | 5.0000   | -27.7        |
| 3 | 10PPBCN    | 0.009    | 10.2339    | 10.0000  | 2.3          |
| 4 | 50PPBCN    | 0.036    | 50.8618    | 50.0000  | 1.7          |
| 5 | 100PPBCN   | 0.071    | 103.4693   | 100.0000 | 3.5          |
| 6 | 250PPBCN   | 0.168    | 247.3582   | 250.0000 | -1.1         |
| 7 | 500PPBCN   | 0.337    | 500.5500   | 500.0000 | 0.1          |

NF

12/09/2024

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 12/07/2024 Time : 10:00 Temp : 124 °C

Matrix : WATER

End Digest Date: 12/07/2024 Time : 11:30 Temp : 126 °C

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : MC-1, MC-2

Filter paper ID : N/A

Prep Technician Signature: 18

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature: 12

| Standard Name     | MLS USED | STD REF. # FROM LOG |
|-------------------|----------|---------------------|
| LCSW              | 1ML      | WP109549            |
| MS/MSD SPIKE SOL. | 0.40ML   | WP110899            |
| PBW               | 50ML     | W3112               |
| N/A               | N/A      | N/A                 |
| N/A               | N/A      | N/A                 |

| Chemical Used         | ML/SAMPLE USED | Lot Number |
|-----------------------|----------------|------------|
| 0.25N NaOH            | 50ML           | WP108640   |
| 50% v/v H2SO4         | 5ML            | WP110391   |
| 51% w/v MgCL2         | 2ML            | WP110390   |
| pH Paper 0-14         | N/A            | W3121      |
| Nitrate/Nitrite Strip | N/A            | W3101      |
| Lead Acetate strip    | N/A            | W3134      |
| KI-starch paper       | N/A            | W3155      |
| 0.4N Sulfamic Acid    | 5ML            | WP110388   |
| N/A                   | N/A            | N/A        |
| N/A                   | N/A            | N/A        |

| LAB SAMPLE ID | CLIENT SAMPLE ID | Wt(g)/Vol(ml) | Comment  |
|---------------|------------------|---------------|----------|
| S0            | S0               | N/A           | N/A      |
| S5.0          | S5.0             | N/A           | N/A      |
| S10.0         | S10.0            | N/A           | N/A      |
| S100.0        | S100.0           | N/A           | N/A      |
| S250.0        | S250.0           | N/A           | N/A      |
| S500.0        | S500.0           | N/A           | N/A      |
| ICV           | ICV              | 0.5ML         | W3011    |
| ICB           | ICB              | N/A           | N/A      |
| CCV           | CCV              | N/A           | N/A      |
| CCB           | CCB              | N/A           | N/A      |
| Midrange      | Midrange         | N/A           | N/A      |
| HIGHSTD       | HIGHSTD          | 5.0ML         | WP110899 |
| LOWSTD        | LOWSTD           | 0.1ML         | WP110899 |

Extraction Conformance/Non-Conformance Comments:

N/A

| Date / Time       | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------------|-----------------------------------------|----------------------|
| 12-07-2024, 11:40 | 20 LWC                                  | NF(WC)               |
|                   | Preparation Group                       | Analysis Group       |

| Lab Sample ID | Client Sample ID          | Initial Vol (ml) | Final Vol (ml) | pH  | Sulfide  | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---------------|---------------------------|------------------|----------------|-----|----------|-----------|------------------|---------|----------|
| P5093-01      | LL-001                    | 50               | 50             | >12 | Negative | Negative  | Negative         | N/A     | N/A      |
| P5093-02      | LL-001-FB-12-4-24         | 50               | 50             | >12 | Negative | Negative  | Negative         | N/A     | N/A      |
| P5093-02DUP   | LL-001-FB-12-4-24DUP      | 50               | 50             | >12 | Negative | Negative  | Negative         | N/A     | N/A      |
| P5093-02MS    | LL-001-FB-12-4-24MS       | 50               | 50             | >12 | Negative | Negative  | Negative         | N/A     | N/A      |
| P5093-02MSD   | LL-001-FB-12-4-24MSD      | 50               | 50             | >12 | Negative | Negative  | Negative         | N/A     | N/A      |
| P5141-02      | WATER TREATMENT DISCHARGE | 50               | 50             | >12 | Negative | Negative  | Positive         | N/A     | N/A      |
| PB165498BL    | PBW498                    | 50               | 50             | >12 | Negative | Negative  | Negative         | N/A     | N/A      |
| PB165498BS    | LCS498                    | 50               | 50             | >12 | Negative | Negative  | Negative         | N/A     | N/A      |

**Instrument ID:** TOC

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133751**

|                  |                                                       |              |                      |
|------------------|-------------------------------------------------------|--------------|----------------------|
| Review By        | Niha                                                  | Review On    | 12/9/2024 2:47:20 PM |
| Supervise By     | Iwona                                                 | Supervise On | 12/9/2024 2:58:45 PM |
| SubDirectory     | LB133751                                              | Test         | TOC                  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                      |              |                      |
| ICAL Standard    | WP109852,WP109853,WP109854,WP109855,WP109856,WP109857 |              |                      |
| ICV Standard     | WP109859                                              |              |                      |
| CCV Standard     | WP110961                                              |              |                      |
| ICSA Standard    | N/A                                                   |              |                      |
| CRI Standard     | N/A                                                   |              |                      |
| LCS Standard     | WP110960                                              |              |                      |
| Chk Standard     | WP109953,WP109860,WP109865                            |              |                      |

| Sr# | SampleId    | ClientID    | QcType | Date           | Comment                       | Operator | Status |
|-----|-------------|-------------|--------|----------------|-------------------------------|----------|--------|
| 1   | 0.0PPM      | 0.0PPM      | CAL1   | 09/25/24 11:13 |                               | NF IZ    | OK     |
| 2   | 0.5PPM      | 0.5PPM      | CAL2   | 09/25/24 12:02 |                               | NF IZ    | OK     |
| 3   | 1.0PPM      | 1.0PPM      | CAL3   | 09/25/24 12:52 |                               | NF IZ    | OK     |
| 4   | 2.0PPM      | 2.0PPM      | CAL4   | 09/25/24 13:18 |                               | NF IZ    | OK     |
| 5   | 5.0PPM      | 5.0PPM      | CAL5   | 09/25/24 13:45 |                               | NF IZ    | OK     |
| 6   | 10.0PPM     | 10.0PPM     | CAL6   | 09/25/24 14:12 |                               | NF IZ    | OK     |
| 7   | 20.0PPM     | 20.0PPM     | CAL7   | 09/25/24 14:40 |                               | NF IZ    | OK     |
| 8   | ICV1        | ICV1        | ICV    | 09/25/24 15:07 |                               | NF IZ    | OK     |
| 9   | ICB1        | ICB1        | ICB    | 09/25/24 15:31 |                               | NF IZ    | OK     |
| 10  | IC-20       | IC-20       | SAM    | 09/25/24 15:54 |                               | NF IZ    | OK     |
| 11  | IC-R        | IC-R        | SAM    | 09/25/24 16:18 |                               | NF IZ    | OK     |
| 12  | CCV1        | CCV1        | CCV    | 12/05/24 11:26 |                               | NF IZ    | OK     |
| 13  | CCB1        | CCB1        | CCB    | 12/05/24 11:50 |                               | NF IZ    | OK     |
| 14  | LB133751BLW | LB133751BLW | MB     | 12/05/24 12:14 |                               | NF IZ    | OK     |
| 15  | LB133751BSW | LB133751BSW | LCS    | 12/05/24 12:43 |                               | NF IZ    | OK     |
| 16  | P5093-01    | LL-001      | SAM    | 12/05/24 13:09 |                               | NF IZ    | OK     |
| 17  | P5093-01MS  | LL-001MS    | MS     | 12/05/24 13:37 | 2.0ml WP110959 +38.0ml Sample | NF IZ    | OK     |
| 18  | P5093-01MSD | LL-001MSD   | MSD    | 12/05/24 14:05 | 2.0ml WP110959 +38.0ml Sample | NF IZ    | OK     |

Instrument ID: TOC

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133751**

|                  |                                                       |              |                      |
|------------------|-------------------------------------------------------|--------------|----------------------|
| Review By        | Niha                                                  | Review On    | 12/9/2024 2:47:20 PM |
| Supervise By     | Iwona                                                 | Supervise On | 12/9/2024 2:58:45 PM |
| SubDirectory     | LB133751                                              | Test         | TOC                  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                      |              |                      |
| ICAL Standard    | WP109852,WP109853,WP109854,WP109855,WP109856,WP109857 |              |                      |
| ICV Standard     | WP109859                                              |              |                      |
| CCV Standard     | WP110961                                              |              |                      |
| ICSA Standard    | N/A                                                   |              |                      |
| CRI Standard     | N/A                                                   |              |                      |
| LCS Standard     | WP110960                                              |              |                      |
| Chk Standard     | WP109953,WP109860,WP109865                            |              |                      |

|    |          |                   |     |                |  |       |    |
|----|----------|-------------------|-----|----------------|--|-------|----|
| 19 | P5093-02 | LL-001-FB-12-4-24 | SAM | 12/05/24 14:29 |  | NF IZ | OK |
| 20 | CCV2     | CCV2              | CCV | 12/05/24 14:58 |  | NF IZ | OK |
| 21 | CCB2     | CCB2              | CCB | 12/05/24 15:21 |  | NF IZ | OK |
| 22 | P5145-01 | 286085            | SAM | 12/05/24 17:58 |  | NF IZ | OK |
| 23 | CCV3     | CCV3              | CCV | 12/05/24 18:27 |  | NF IZ | OK |
| 24 | CCB3     | CCB3              | CCB | 12/05/24 18:50 |  | NF IZ | OK |

**Instrument ID:** KONELAB

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133847**

|                  |                                                                |              |                        |
|------------------|----------------------------------------------------------------|--------------|------------------------|
| Review By        | Niha                                                           | Review On    | 12/10/2024 11:11:44 AM |
| Supervise By     | Iwona                                                          | Supervise On | 12/10/2024 11:21:11 AM |
| SubDirectory     | LB133847                                                       | Test         | Cyanide                |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                               |              |                        |
| ICAL Standard    | WP111012,WP111013,WP111014,WP111015,WP111016,WP111017,WP111018 |              |                        |
| ICV Standard     | W3011                                                          |              |                        |
| CCV Standard     | WP111013                                                       |              |                        |
| ICSA Standard    | N/A                                                            |              |                        |
| CRI Standard     | N/A                                                            |              |                        |
| LCS Standard     | WP109549                                                       |              |                        |
| Chk Standard     | WP111035,WP1110103,WP111019                                    |              |                        |

| Sr# | SampleID     | ClientID             | QcType | Date           | Comment | Operator | Status |
|-----|--------------|----------------------|--------|----------------|---------|----------|--------|
| 1   | 0.0PPBCN     | 0.0PPBCN             | CAL1   | 12/09/24 11:10 |         | Niha     |        |
| 2   | 5.0PPBCN     | 5.0PPBCN             | CAL2   | 12/09/24 11:10 |         | Niha     |        |
| 3   | 10PPBCN      | 10PPBCN              | CAL3   | 12/09/24 11:10 |         | Niha     |        |
| 4   | 50PPBCN      | 50PPBCN              | CAL4   | 12/09/24 11:10 |         | Niha     |        |
| 5   | 100PPBCN     | 100PPBCN             | CAL5   | 12/09/24 11:10 |         | Niha     |        |
| 6   | 250PPBCN     | 250PPBCN             | CAL6   | 12/09/24 11:11 |         | Niha     |        |
| 7   | 500PPBCN     | 500PPBCN             | CAL7   | 12/09/24 11:11 |         | Niha     |        |
| 8   | ICV1         | ICV1                 | ICV    | 12/09/24 12:39 |         | Niha     |        |
| 9   | ICB1         | ICB1                 | ICB    | 12/09/24 12:39 |         | Niha     |        |
| 10  | CCV1         | CCV1                 | CCV    | 12/09/24 12:39 |         | Niha     |        |
| 11  | CCB1         | CCB1                 | CCB    | 12/09/24 12:39 |         | Niha     |        |
| 12  | PB165498BL   | PB165498BL           | MB     | 12/09/24 12:39 |         | Niha     |        |
| 13  | PB165498BS   | PB165498BS           | LCS    | 12/09/24 12:47 |         | Niha     |        |
| 14  | LOWPB165498  | LOWPB165498          | SAM    | 12/09/24 12:47 |         | Niha     |        |
| 15  | HIGHPB165498 | HIGHPB165498         | SAM    | 12/09/24 12:47 |         | Niha     |        |
| 16  | P5093-01     | LL-001               | SAM    | 12/09/24 12:47 |         | Niha     |        |
| 17  | P5093-02     | LL-001-FB-12-4-24    | SAM    | 12/09/24 12:47 |         | Niha     |        |
| 18  | P5093-02DUP  | LL-001-FB-12-4-24DUP | DUP    | 12/09/24 12:47 |         | Niha     |        |

Instrument ID: KONELAB

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133847**

|                  |                                                                |              |                        |
|------------------|----------------------------------------------------------------|--------------|------------------------|
| Review By        | Niha                                                           | Review On    | 12/10/2024 11:11:44 AM |
| Supervise By     | Iwona                                                          | Supervise On | 12/10/2024 11:21:11 AM |
| SubDirectory     | LB133847                                                       | Test         | Cyanide                |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                               |              |                        |
| ICAL Standard    | WP111012,WP111013,WP111014,WP111015,WP111016,WP111017,WP111018 |              |                        |
| ICV Standard     | W3011                                                          |              |                        |
| CCV Standard     | WP111013                                                       |              |                        |
| ICSA Standard    | N/A                                                            |              |                        |
| CRI Standard     | N/A                                                            |              |                        |
| LCS Standard     | WP109549                                                       |              |                        |
| Chk Standard     | WP111035,WP1110103,WP111019                                    |              |                        |

|    |             |                     |     |                |  |      |  |
|----|-------------|---------------------|-----|----------------|--|------|--|
| 19 | P5093-02MS  | LL-001-FB-12-4-24MS | MS  | 12/09/24 12:47 |  | Niha |  |
| 20 | P5093-02MSD | LL-001-FB-12-4-24MS | MSD | 12/09/24 12:47 |  | Niha |  |
| 21 | P5141-02    | WATER TREATMENT     | SAM | 12/09/24 12:54 |  | Niha |  |
| 22 | CCV2        | CCV2                | CCV | 12/09/24 12:54 |  | Niha |  |
| 23 | CCB2        | CCB2                | CCB | 12/09/24 12:54 |  | Niha |  |
| 24 | PB165499BL  | PB165499BL          | MB  | 12/09/24 12:54 |  | Niha |  |
| 25 | PB165499BS  | PB165499BS          | LCS | 12/09/24 12:54 |  | Niha |  |
| 26 | P5117-02    | TAPIAL2-IDW-SOIL-1  | SAM | 12/09/24 12:54 |  | Niha |  |
| 27 | P5117-02DUP | TAPIAL2-IDW-SOIL-1  | DUP | 12/09/24 12:55 |  | Niha |  |
| 28 | P5117-02MS  | TAPIAL2-IDW-SOIL-1  | MS  | 12/09/24 12:55 |  | Niha |  |
| 29 | P5117-02MSD | TAPIAL2-IDW-SOIL-1  | MSD | 12/09/24 12:55 |  | Niha |  |
| 30 | CCV3        | CCV3                | CCV | 12/09/24 12:58 |  | Niha |  |
| 31 | CCB3        | CCB3                | CCB | 12/09/24 12:58 |  | Niha |  |



# SHIPPING DOCUMENTS

# CHEMTECH

## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092  
(908) 789-8900 • Fax (908) 789-8922  
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number

PS093

2040990 PS094

### CLIENT INFORMATION

COMPANY: R3M Engineering, INC  
ADDRESS: 11 Landing Ln.  
CITY: New Brunswick STATE: NJ ZIP:   
ATTENTION: Stacey L. Felts-Book  
PHONE: (973) 207-1820 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: MCO54.36 23-B-1 LM - Landing  
PROJECT NO.:  LOCATION: Large New Brunswick  
PROJECT MANAGER:   
e-mail:   
PHONE:  FAX:

### CLIENT BILLING INFORMATION

BILL TO:  PO#:   
ADDRESS:   
CITY:  STATE:  ZIP:   
ATTENTION:  PHONE:

### ANALYSIS

### DATA TURNAROUND INFORMATION

FAX (RUSH)  DAYS\*   
HARDCOPY (DATA PACKAGE): STD DAYS\*   
EDD:  DAYS\*   
\*TO BE APPROVED BY CHEMTECH  
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)  
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP  
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B  
+ Raw Data ☐ Other   
☐ EDD FORMAT

VOC-TCL  
SVOC-TCL  
Pest. PCB  
TOC  
Dioxin  
Metals  
Cyanide

| CHEMTECH<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE |      | SAMPLE<br>COLLECTION |      | # OF BOTTLES | PRESERVATIVES |   |   |   |   |   |   |  |  | COMMENTS                                                                   |  |
|--------------------------|----------------------------------|------------------|----------------|------|----------------------|------|--------------|---------------|---|---|---|---|---|---|--|--|----------------------------------------------------------------------------|--|
|                          |                                  |                  | COMP           | GRAB | DATE                 | TIME |              | A             | E | E | C | E | B | D |  |  | ← Specify Preservatives<br>A-HCl D-NaOH<br>B-HNO3 E-ICE<br>C-H2SO4 F-OTHER |  |
| 1.                       | LL-001                           | W.               |                | X    | 12/4                 | 1105 | 10           | X             | X | X | X | X | X | X |  |  |                                                                            |  |
| 2.                       | LL-001-FB-12-4-24                | W                |                | X    | 12/4                 | 1100 | 10           | X             | X | X | X | X | X | X |  |  |                                                                            |  |
| 3.                       | TB-12-4-24                       | W                |                | X    | 12/4                 | —    | 2            | X             |   |   |   |   |   |   |  |  |                                                                            |  |
| 4.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |  |  |                                                                            |  |
| 5.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |  |  |                                                                            |  |
| 6.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |  |  |                                                                            |  |
| 7.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |  |  |                                                                            |  |
| 8.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |  |  |                                                                            |  |
| 9.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |  |  |                                                                            |  |
| 10.                      |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |  |  |                                                                            |  |

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

|                                                   |                                          |                                       |                                                                                                                                                                             |
|---------------------------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY SAMPLER:<br>1. <u>[Signature]</u> | DATE/TIME: <u>1200</u><br><u>12/4/24</u> | RECEIVED BY:<br>1. <u>[Signature]</u> | Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP <u>5.3°C</u> °C |
| RELINQUISHED BY SAMPLER:<br>2. <u>[Signature]</u> | DATE/TIME: <u></u>                       | RECEIVED BY:<br>2. <u></u>            | Comments:<br><u></u>                                                                                                                                                        |
| RELINQUISHED BY SAMPLER:<br>3. <u>[Signature]</u> | DATE/TIME: <u>1300</u><br><u>12/4/24</u> | RECEIVED BY:<br>3. <u></u>            | Page <u>1</u> of <u>1</u>                                                                                                                                                   |

CLIENT: ☐ Hand Delivered ☐ Other   
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete  
☐ YES ☐ NO

# **LOW FLOW SAMPLING DATA SHEET**

SHEET 1 OF 1

SITE: Landing Lane New Brunswick  
 DATE: 12-4-24  
 WEATHER: \_\_\_\_\_

CONSULTING FIRM: Alliance Technical Group  
 FIELD PERSONNEL: Gorge Veyron

MONITOR WELL #: \_\_\_\_\_ WELL DEPTH: 20'  
 WELL PERMIT #: \_\_\_\_\_ WELL DIAMETER: 2" inches  
 SCREENED/OPEN INTERVAL: \_\_\_\_\_

PID/FID READINGS (ppm): BACKGROUND: 0.0  
 BENEATH OUTER CAP: 0.0  
 BENEATH INNER CAP: 0.0

PUMP INTAKE DEPTH: \_\_\_\_\_ ft below TOC  
 DEPTH TO WATER BEFORE PUMP INSTALLATION: 22.8' ft below TOC

| TIME | PURGING | SAMPLING | pH<br>(pH units) |         | SPECIFIC<br>CONDUCTIVITY<br>(mS/cm) |         | REDOX<br>POTENTIAL<br>(mv) |         | DISSOLVED<br>OXYGEN<br>(mg/l) |         | TURBIDITY<br>(NTU) |         | TEMPERATURE<br>(degrees C) |         | PUMPING<br>RATE<br>(ml/min) | DEPTH<br>TO<br>WATER<br>(ft below TOC) |
|------|---------|----------|------------------|---------|-------------------------------------|---------|----------------------------|---------|-------------------------------|---------|--------------------|---------|----------------------------|---------|-----------------------------|----------------------------------------|
|      |         |          | READING          | CHANGE* | READING                             | CHANGE* | READING                    | CHANGE* | READING                       | CHANGE* | READING            | CHANGE* | READING                    | CHANGE* |                             |                                        |
| 0925 | X       |          | 7.38             | NA      | 0.266                               | NA      | 162                        | NA      | 4.60                          | NA      | 257                | NA      | 15.42                      | NA      | —                           | 22.8'                                  |
| 0930 | X       |          | 7.24             | 0.14    | 0.261                               | 0.005   | 157                        | 5       | 4.03                          | 0.57    | 253                | 4       | 16.05                      | 0.63    | —                           | 22.8'                                  |
| 0935 | X       |          | 7.14             | 0.1     | 0.257                               | 0.004   | 139                        | 18      | 2.77                          | 1.26    | 94.8               | 158.2   | 16.44                      | 0.39    | —                           | 22.8'                                  |
| 0940 | X       |          | 7.11             | 0.03    | 0.255                               | 0.002   | 132                        | 7       | 1.89                          | 0.88    | 73.6               | 21.2    | 16.66                      | 0.22    | —                           | 22.8'                                  |
| 0945 | X       |          | 7.11             | 0       | 0.254                               | 0.001   | 128                        | 4       | 1.19                          | 0.7     | 60.1               | 13.5    | 16.92                      | 0.26    | —                           | 22.8'                                  |
| 0950 | X       |          | 7.11             | 0       | 0.252                               | 0.002   | 122                        | 6       | 2.11                          | 0.92    | 54.2               | 5.9     | 16.82                      | 0.1     | —                           | 22.8'                                  |
| 0955 | X       |          | 7.11             | 0       | 0.253                               | 0.001   | 121                        | 1       | 2.12                          | 0.01    | 52.8               | 1.4     | 16.79                      | 0.03    | —                           | 22.8'                                  |
| 1000 | X       |          | 7.11             | 0       | 0.255                               | 0.002   | 120                        | 1       | 2.08                          | 0.04    | 52.6               | 0.2     | 16.78                      | 0.01    | —                           | 22.8'                                  |
| 1005 | X       |          | 7.11             | 0       | 0.257                               | 0.002   | 122                        | 2       | 2.06                          | 0.02    | 51.9               | 0.9     | 16.77                      | 0.01    | —                           | 22.8'                                  |
|      |         |          |                  |         |                                     |         |                            |         |                               |         |                    |         |                            |         |                             |                                        |
|      |         |          |                  |         |                                     |         |                            |         |                               |         |                    |         |                            |         |                             |                                        |

COMMENTS:

\*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

Alliance Technical Group, LLC-Newark

284 Sheffield Street, Mountainside, NJ 07092 Tel. 908-789-8900 Fax 908-789-8922

**FIELD SAMPLING LOG**

Client Name: R3M Engineering, INC

Project Name: MCD54.36 23-8-1 LM-Landing  
LANE New Brunswick

Client Address: 11 Landing Ln. New Brunswick

Project Location: New Brunswick

Client Rep on Site: Stacey L. Feltz - Beck

Cooler Custody Seal: N/A

Sampling Date: 12-4-24

Temperature Correction Factor (°C): —

Arrival Time: 0700 Departure Time: 1200

**FIELD EQUIPMENT CALIBRATION**

| pH Calibration (SM4500-H B/9040C) |             |             |              |                        |
|-----------------------------------|-------------|-------------|--------------|------------------------|
| Calibration                       |             |             |              | ICV<br>(± 0.1 pH unit) |
|                                   | 7.00 Buffer | 4.00 Buffer | 10.00 Buffer | 7.00 Buffer            |
|                                   | W 3071      | W 3107      | W 3094       | W 3093                 |
| Time                              | 0710        | 0712        | 0714         | 0716                   |
| Temp °C                           | 14.92       | 14.96       | 14.90        | 14.93                  |
| pH                                | 7.00        | 4.01        | 10.02        | 7.00                   |

**FIELD EQUIPMENT CALIBRATION**

| Specific Conductance (mS/cm) (99% -101%)/(mmho/cm) (SM2510 B/120.1/9050A) |    |                        |
|---------------------------------------------------------------------------|----|------------------------|
| Calibration (± 1%) (99% -101%)                                            |    | ICV (± 1%) (99% -101%) |
|                                                                           | WP | WP                     |
| Time                                                                      |    |                        |
| Temp °C                                                                   |    |                        |
| Reading (mS/cm)                                                           |    |                        |

Sampler Signature/Date: [Signature] 12/4/24

Supervisor Review/Date: \_\_\_\_\_

Alliance Technical Group, LLC-Newark

284 Sheffield Street, Mountainside, NJ 07092 Tel. 908-789-8900 Fax 908-789-8922  
**FIELD SAMPLING LOG**

Client Name: R3M Engineering, INC

Client Address: 11 Landing Ln.

Client Rep on Site: Stacy L. Felts - Bock

Sampling Date: 12-4-24

Arrival Time: 0700 Departure Time: \_\_\_\_\_

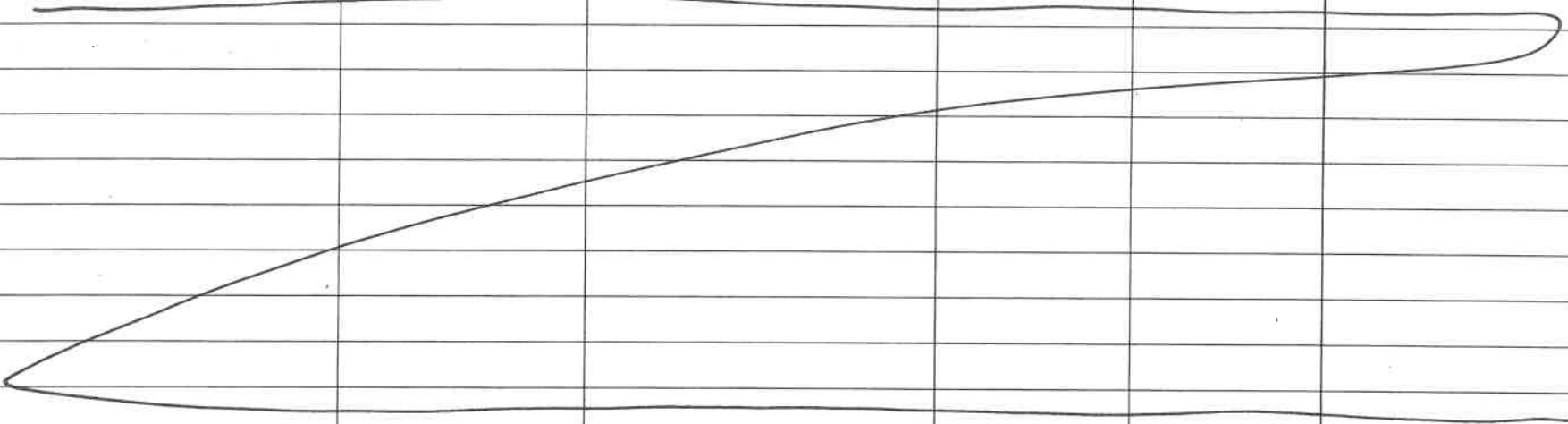
Project Name: MO054 36 23-8-1 LM - Landing  
Line New Brunswick

Project Location: New Brunswick

Cooler Custody Seal: N/A

Temperature Correction Factor (°C): \_\_\_\_\_

**FIELD SAMPLING INFORMATION**

| Sampling Location                                                                   | Date/Time of sampling | Field Measurements    |      |                |                                          |
|-------------------------------------------------------------------------------------|-----------------------|-----------------------|------|----------------|------------------------------------------|
|                                                                                     |                       | Date/Time of Analysis | pH   | Temperature °C | Specific Conductance (mS/cm) (99% -101%) |
| CCV (W3071)                                                                         | 12-4-24 0959          | 12-4-24 1001          | 7.01 | 16.70          | 0.266                                    |
| LL-001                                                                              | 1003                  | 1005                  | 7.11 | 16.77          | 0.257                                    |
| DUP                                                                                 | 1007                  | 1009                  | 7.11 | 16.76          | 0.255                                    |
| CCV (W3071)                                                                         | 1011                  | 1013                  | 7.00 | 16.72          | 0.264                                    |
|  |                       |                       |      |                |                                          |
|                                                                                     |                       |                       |      |                |                                          |
|                                                                                     |                       |                       |      |                |                                          |
|                                                                                     |                       |                       |      |                |                                          |
|                                                                                     |                       |                       |      |                |                                          |
|                                                                                     |                       |                       |      |                |                                          |
|                                                                                     |                       |                       |      |                |                                          |
|                                                                                     |                       |                       |      |                |                                          |
|                                                                                     |                       |                       |      |                |                                          |
|                                                                                     |                       |                       |      |                |                                          |

Meter: YSI MPS, Model # 556, Serial # 085A0063

Sampler Signature/Date:  12/4/24

Supervisor Review/Date: \_\_\_\_\_



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

### Laboratory Certification

| Certified By         | License No.      |
|----------------------|------------------|
|                      |                  |
| CAS EPA CLP Contract | 68HERH20D0011    |
|                      |                  |
| Connecticut          | PH-0830          |
|                      |                  |
| DOD ELAP (ANAB)      | L2219            |
|                      |                  |
| Maine                | 2024021          |
|                      |                  |
| Maryland             | 296              |
|                      |                  |
| New Hampshire        | 255424 Rev 1     |
|                      |                  |
| New Jersey           | 20012            |
|                      |                  |
| New York             | 11376            |
|                      |                  |
| Pennsylvania         | 68-00548         |
|                      |                  |
| Soil Permit          | 525-24-234-08441 |
|                      |                  |
| Texas                | T104704488       |

## LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5093 RTHR01

Client Name : R3M Engineering, Inc.

Client Contact : Stacey L. Felts-Bock

Invoice Name : R3M Engineering, Inc.

Invoice Contact : Stacey L. Felts-Bock

Order Date : 12/4/2024 12:24:38 PM

Project Name : MC054.36 23-8-1 LM - Lar

Receive DateTime : 12/4/2024 12:00:00 AM

Purchase Order :

Project Mgr :

Report Type : Level 1

EDD Type : Excel NJ

Hard Copy Date :

Date Signoff :

| LAB ID   | CLIENT ID         | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST          | TEST GROUP | METHOD   | FAX DATE     | DUE DATES |
|----------|-------------------|--------|-------------|-------------|---------------|------------|----------|--------------|-----------|
| P5093-01 | LL-001            | Water  | 12/04/2024  | 11:05       | VOC-TCLVOA-10 | TCL+30/TAL | 8260-Low | 10 Bus. Days |           |
| P5093-02 | LL-001-FB-12-4-24 | Water  | 12/04/2024  | 11:00       | VOC-TCLVOA-10 | TCL+30/TAL | 8260-Low | 10 Bus. Days |           |
| P5093-03 | TB-12-4-24        | Water  | 12/04/2024  | 00:00       | VOC-TCLVOA-10 | TCL+30/TAL | 8260-Low | 10 Bus. Days |           |

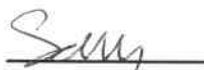
Relinquished By :

Date / Time :

  
12/4/24 1400

Received By :

Date / Time :

  
12/4/24 14:00 Ng # 4

Storage Area : VOA Refridgerator Room