

## **ANALYTICAL RESULTS SUMMARY**

GENERAL CHEMISTRY  
METALS  
SEMI-VOLATILE ORGANICS

**PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13**

**TETRA TECH NUS, INC.**

**661 Andersen Drive**

**Suite 200**

**Pittsburgh, PA - 15220-2745**

**Phone No: 412-921-7090**

**ORDER ID : Q2881**

**ATTENTION : Ernie Wu**



**Laboratory Certification ID # 20012**



|                                     |    |
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## Cover Page

**Order ID :** Q2881

**Project ID :** NWIRP Bethpage 112G08005-WE13

**Client :** Tetra Tech NUS, Inc.

**Lab Sample Number**

Q2881-01  
Q2881-02

**Client Sample Number**

RW8-SP100-20250814  
RW8-SP303-20250814

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: 8/27/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Tetra Tech NUS, Inc.**

**Project Name: NWIRP Bethpage 112G08005-WE13**

**Project Manager : Ernie Wu**

**Order ID # Q2881**

**Test Name: SVOC-SIMGroup1**

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

2 Water samples were received on 08/15/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1. This data package contains results for SVOC-SIMGroup1.

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

The samples were analyzed on instrument BNA\_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS {Q2842-04MS} with File ID: BN037605.D recoveries met the requirements for all compounds except for 1,4-Dioxane[23%] due to matrix interference.

The MSD {Q2842-05MSD} with File ID: BN037606.D recoveries met the requirements for all compounds except for 1,4-Dioxane[24%] due to matrix interference.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

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

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).



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

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

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Signature\_\_\_\_\_



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

## **CASE NARRATIVE**

**Tetra Tech NUS, Inc.**

**Project Name: NWIRP Bethpage 112G08005-WE13**

**Project Manager : Ernie Wu**

**Order ID # Q2881**

**Test Name: Metals Group4**

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

2 Water samples were received on 08/15/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Metals Group4, SVOC-SIMGroup1, TDS and TSS. This data package contains results for Metals Group4.

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

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

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike analysis met criteria for all compounds.

The Matrix Spike Duplicate analysis met criteria for all compounds.

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

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

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

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

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Signature\_\_\_\_\_



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## **CASE NARRATIVE**

**Tetra Tech NUS, Inc.**

**Project Name: NWIRP Bethpage 112G08005-WE13**

**Project Manager : Ernie Wu**

**Order ID # Q2881**

**Test Name: TDS,TSS**

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

2 Water samples were received on 08/15/2025.

### **B. Parameters:**

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

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

The analysis of TDS was based on method SM2540 C and The analysis of TSS was based on method SM2540 D.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

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

The Calibration met the requirements.

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

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

---

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- INORGANIC

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

|           |                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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                                                                                                                                                                                                                                                                                                                                              |

## DATA REPORTING QUALIFIERS- ORGANIC

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

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value | If the result is a value greater than or equal to the detection limit, report the value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| U     | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.                                                                                                                                                                                                                                                                                      |
| ND    | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| J     | Indicates an estimated value. This flag is used: <ul style="list-style-type: none"> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.</li> </ul> |
| B     | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| E     | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| D     | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| P     | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.                                                                                                                                                                                                                                                                                                                                                                             |
| N     | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.                                                                                                                                                                                                                                                                       |
| A     | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Q     | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q2881

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 08/27/2025

## LAB CHRONICLE

|                 |                      |                   |                               |
|-----------------|----------------------|-------------------|-------------------------------|
| <b>OrderID:</b> | Q2881                | <b>OrderDate:</b> | 8/15/2025 10:55:00 AM         |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13 |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | J32                           |

| LabID           | ClientID                             | Matrix       | Test           | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|--------------------------------------|--------------|----------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>Q2881-01</b> | <b>RW8-SP100-2025081</b><br><b>4</b> | <b>Water</b> |                |               | <b>08/14/25</b> |           |           | <b>08/15/25</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 08/18/25  | 08/20/25  |                 |
| <b>Q2881-02</b> | <b>RW8-SP303-2025081</b><br><b>4</b> | <b>Water</b> |                |               | <b>08/14/25</b> |           |           | <b>08/15/25</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 08/18/25  | 08/20/25  |                 |



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

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q2881  
**Client:** Tetra Tech NUS, Inc.

| Sample ID            | Client ID                 | Parameter | Concentration | C           | MDL | LOD  | RDL | Units    |
|----------------------|---------------------------|-----------|---------------|-------------|-----|------|-----|----------|
| Client ID :          | <b>RW8-SP100-20250814</b> |           |               |             |     |      |     |          |
| Q2881-01             | RW8-SP100-20250814        | WATER     | 1,4-Dioxane   | 0.070       | J   | 0.07 | 0.2 | 0.2 ug/L |
| Total Svoc :         |                           |           |               | <b>0.07</b> |     |      |     |          |
| Total Concentration: |                           |           |               | <b>0.07</b> |     |      |     |          |



# SAMPLE DATA

## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 08/14/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 08/15/25       |
| Client Sample ID:  | RW8-SP100-20250814            | SDG No.:        | Q2881          |
| Lab Sample ID:     | Q2881-01                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 Units: mL                | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  | uL                            | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted : N                  | Level :         | LOW            |
| Injection Volume : | GPC Factor : 1.0              | GPC Cleanup :   | N PH :         |
| Prep Method :      |                               |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037623.D        | 1         | 08/18/25 08:41 | 08/20/25 07:13 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.070 | J         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.26  |           | 30 - 150 |      | 65%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.37  |           | 30 - 150 |      | 92%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.32  |           | 55 - 111 |      | 79%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.31  |           | 53 - 106 |      | 77%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.42  |           | 58 - 132 |      | 105%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2130  | 7.717     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4990  | 10.498    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2390  | 14.345    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5110  | 17.086    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 4520  | 21.268    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 4090  | 23.499    |          |      |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 08/14/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 08/15/25       |
| Client Sample ID:  | RW8-SP303-20250814            | SDG No.:        | Q2881          |
| Lab Sample ID:     | Q2881-02                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 Units: mL                | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  | uL                            | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted : N                  | Level :         | LOW            |
| Injection Volume : | GPC Factor : 1.0              | GPC Cleanup :   | N PH :         |
| Prep Method :      |                               |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037624.D        | 1         | 08/18/25 08:41 | 08/20/25 07:49 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.20  | U         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.27  |           | 30 - 150 |      | 68%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.37  |           | 30 - 150 |      | 93%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.33  |           | 55 - 111 |      | 81%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.30  |           | 53 - 106 |      | 75%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.43  |           | 58 - 132 |      | 107%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2200  | 7.71      |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5180  | 10.498    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2520  | 14.345    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5410  | 17.086    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 4670  | 21.268    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 4150  | 23.502    |          |      |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



# QC SUMMARY

## Surrogate Summary

SW-846

SDG No.: Q2881

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID               | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|-------------------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                         |                         |             |              |              |      | Low        | High |
| PB169286BL    | PB169286BL              | 2-Methylnaphthalene-d10 | 0.4         | 0.32         | 81           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.33         | 83           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.36         | 90           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.35         | 86           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.37         | 93           |      | 58         | 132  |
| PB169286BS    | PB169286BS              | 2-Methylnaphthalene-d10 | 0.4         | 0.33         | 82           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.31         | 76           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.35         | 87           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.36         | 90           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.35         | 88           |      | 58         | 132  |
| Q2842-04MS    | MW-17B-55.5-08122025MS  | 2-Methylnaphthalene-d10 | 0.4         | 0.31         | 77           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.38         | 94           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.33         | 83           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.32         | 81           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.47         | 117          |      | 58         | 132  |
| Q2842-05MSD   | MW-17B-55.5-08122025MSD | 2-Methylnaphthalene-d10 | 0.4         | 0.30         | 76           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.37         | 93           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.32         | 79           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.32         | 81           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.47         | 117          |      | 58         | 132  |
| Q2881-01      | RW8-SP100-20250814      | 2-Methylnaphthalene-d10 | 0.4         | 0.26         | 65           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.37         | 92           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.32         | 79           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.31         | 77           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.42         | 105          |      | 58         | 132  |
| Q2881-02      | RW8-SP303-20250814      | 2-Methylnaphthalene-d10 | 0.4         | 0.27         | 68           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.37         | 93           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.33         | 81           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.30         | 75           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.43         | 107          |      | 58         | 132  |

Matrix Spike/Matrix Spike Duplicate Summary  
SW-846

SDG No.:

Q2881

Analytical Method:

SW8270-Modified

Client:

Tetra Tech NUS, Inc.

DataFile:

BN037605.D

| Parameter      | Spike      | Sample<br>Result  | Result                 | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low | Limits<br>High | RPD |
|----------------|------------|-------------------|------------------------|-------|-----|-------------|-----|-------------|-----|----------------|-----|
| Lab Sample ID: | Q2842-04MS | Client Sample ID: | MW-17B-55.5-08122025MS |       |     |             |     |             |     |                |     |
| 1,4-Dioxane    | 0.43       | 2.90              | 3.00                   | ug/L  | 23  | *           |     |             | 70  | 130            |     |

Matrix Spike/Matrix Spike Duplicate Summary  
SW-846

SDG No.:

Q2881

Analytical Method:

SW8270-Modified

Client:

Tetra Tech NUS, Inc.

DataFile:

BN037606.D

| Parameter      | Spike       | Sample<br>Result  | Result                  | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low | Limits<br>High | RPD |
|----------------|-------------|-------------------|-------------------------|-------|-----|-------------|-----|-------------|-----|----------------|-----|
| Lab Sample ID: | Q2842-05MSD | Client Sample ID: | MW-17B-55.5-08122025MSD |       |     |             |     |             |     |                |     |
| 1,4-Dioxane    | 0.42        | 2.90              | 3.00                    | ug/L  | 24  | *           | 4   |             | 70  | 130            | 20  |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|                 |                             |                           |                      |
|-----------------|-----------------------------|---------------------------|----------------------|
| <b>SDG No.:</b> | <u>Q2881</u>                | <b>Analytical Method:</b> | <u>8270-Modified</u> |
| <b>Client:</b>  | <u>Tetra Tech NUS, Inc.</u> | <b>DataFile:</b>          | <u>BN037630.D</u>    |

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Limits |      | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|--------|------|-----|
|               |             |       |        |      |     |     |      | Qual | Low    | High |     |
| PB169286BS    | 1,4-Dioxane | 0.4   | 0.30   | ug/L | 75  |     |      |      | 70     | 130  |     |

A  
B  
C  
D  
E  
F  
G

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169286BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2881

Lab File ID: BN037619.D

Lab Sample ID: PB169286BL

Instrument ID: BNA\_N

Date Extracted: 08/18/2025

Matrix: (soil/water) Water

Date Analyzed: 08/20/2025

Level: (low/med) LOW

Time Analyzed: 04:50

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA<br>SAMPLE NO.       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------------|------------------|----------------|------------------|
| PB169286BS              | PB169286BS       | BN037630.D     | 08/20/2025       |
| MW-17B-55.5-08122025MS  | Q2842-04MS       | BN037605.D     | 08/19/2025       |
| MW-17B-55.5-08122025MSD | Q2842-05MSD      | BN037606.D     | 08/19/2025       |
| RW8-SP100-20250814      | Q2881-01         | BN037623.D     | 08/20/2025       |
| RW8-SP303-20250814      | Q2881-02         | BN037624.D     | 08/20/2025       |

COMMENTS: \_\_\_\_\_

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BN037576.D  
Instrument ID: BNA\_N

Contract: TETR06  
SDG NO.: Q2881  
DFTPP Injection Date: 08/12/2025  
DFTPP Injection Time: 15:05

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 39.9                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.6 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 7.1                  |
| 365 | Greater than 1% of mass 198        | 3.9                  |
| 441 | Present, but less than mass 443    | 14.2                 |
| 442 | Greater than 50% of mass 198       | 84.5                 |
| 443 | 15.0 - 24.0% of mass 442           | 16.2 ( 19.2 ) 2      |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC0.1        | SSTDICC0.1       | BN037578.D     | 08/12/2025       | 16:26            |
| SSTDICC0.2        | SSTDICC0.2       | BN037579.D     | 08/12/2025       | 17:03            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN037580.D     | 08/12/2025       | 17:39            |
| SSTDICC0.8        | SSTDICC0.8       | BN037581.D     | 08/12/2025       | 18:16            |
| SSTDICC1.6        | SSTDICC1.6       | BN037582.D     | 08/12/2025       | 18:52            |
| SSTDICC3.2        | SSTDICC3.2       | BN037583.D     | 08/12/2025       | 19:29            |
| SSTDICC5.0        | SSTDICC5.0       | BN037584.D     | 08/12/2025       | 20:05            |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BN037599.D  
Instrument ID: BNA\_N

Contract: TETR06  
SDG NO.: Q2881  
DFTPP Injection Date: 08/19/2025  
DFTPP Injection Time: 10:00

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 35.9                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.9                  |
| 365 | Greater than 1% of mass 198        | 4                    |
| 441 | Present, but less than mass 443    | 14.4                 |
| 442 | Greater than 50% of mass 198       | 97.7                 |
| 443 | 15.0 - 24.0% of mass 442           | 17.9 ( 18.3 ) 2      |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO.       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4              | SSTDCCC0.4       | BN037600.D     | 08/19/2025       | 10:39            |
| MW-17B-55.5-08122025MS  | Q2842-04MS       | BN037605.D     | 08/19/2025       | 13:40            |
| MW-17B-55.5-08122025MSD | Q2842-05MSD      | BN037606.D     | 08/19/2025       | 14:17            |
| SSTDCCC0.4EC            | SSTDCCC0.4       | BN037616.D     | 08/19/2025       | 20:19            |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BN037617.D  
Instrument ID: BNA\_N

Contract: TETR06  
SDG NO.: Q2881  
DFTPP Injection Date: 08/20/2025  
DFTPP Injection Time: 03:35

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.4 ( 0.9 ) 1        |
| 69  | Mass 69 relative abundance         | 39.2                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.6 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.8                  |
| 365 | Greater than 1% of mass 198        | 3.6                  |
| 441 | Present, but less than mass 443    | 11.8                 |
| 442 | Greater than 50% of mass 198       | 78.3                 |
| 443 | 15.0 - 24.0% of mass 442           | 14.9 ( 19 ) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO.  | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|--------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4         | SSTDCCC0.4       | BN037618.D     | 08/20/2025       | 04:14            |
| PB169286BL         | PB169286BL       | BN037619.D     | 08/20/2025       | 04:50            |
| RW8-SP100-20250814 | Q2881-01         | BN037623.D     | 08/20/2025       | 07:13            |
| RW8-SP303-20250814 | Q2881-02         | BN037624.D     | 08/20/2025       | 07:49            |
| PB169286BS         | PB169286BS       | BN037630.D     | 08/20/2025       | 11:25            |
| SSTDCCC0.4EC       | SSTDCCC0.4       | BN037631.D     | 08/20/2025       | 14:56            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2881

Client ID : SSTDCCC0.4

Date Analyzed: 08/19/2025

Lab File ID: BN037600.D

Time Analyzed: 10:39

Instrument ID: BNA\_N

GC Column: ZB-GR ID: 0.25 (mm)

|                            | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #   | IS3 (ANT)<br>AREA # | RT #   |
|----------------------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD                | 2628                | 7.717 | 6457                | 10.50  | 3216                | 14.34  |
| UPPER LIMIT                | 5256                | 8.217 | 12914               | 10.998 | 6432                | 14.844 |
| LOWER LIMIT                | 1314                | 7.217 | 3228.5              | 9.998  | 1608                | 13.844 |
| EPA SAMPLE NO.             |                     |       |                     |        |                     |        |
| 01 MW-17B-55.5-08122025MS  | 2023                | 7.72  | 4765                | 10.50  | 2380                | 14.35  |
| 02 MW-17B-55.5-08122025MSD | 2022                | 7.72  | 4839                | 10.50  | 2406                | 14.34  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2881

Client ID: SSTDCCC0.4

Date Analyzed: 08/19/2025

Lab File ID: BN037600.D

Time Analyzed: 10:39

Instrument ID: BNA\_N

GC Column: ZB-GR ID: 0.25 (mm)

|                            | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|----------------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD                | 6293                | 17.086 | 5356                | 21.267 | 5379                | 23.504 |
| UPPER LIMIT                | 12586               | 17.586 | 10712               | 21.767 | 10758               | 24.004 |
| LOWER LIMIT                | 3146.5              | 16.586 | 2678                | 20.767 | 2689.5              | 23.004 |
| EPA SAMPLE NO.             |                     |        |                     |        |                     |        |
| 01 MW-17B-55.5-08122025MS  | 4922                | 17.09  | 4507                | 21.27  | 3909                | 23.51  |
| 02 MW-17B-55.5-08122025MSD | 5009                | 17.09  | 4561                | 21.27  | 3935                | 23.50  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2881

Client ID : SSTDCCC0.4

Date Analyzed: 08/20/2025

Lab File ID: BN037618.D

Time Analyzed: 04:14

Instrument ID: BNA\_N

GC Column: ZB-GR ID: 0.25 (mm)

|                       | IS1 (DCB)<br>AREA # | RT # | IS2 (NPT)<br>AREA # | RT #   | IS3 (ANT)<br>AREA # | RT #   |
|-----------------------|---------------------|------|---------------------|--------|---------------------|--------|
| 12 HOUR STD           | 2622                | 7.71 | 6166                | 10.50  | 3094                | 14.35  |
| UPPER LIMIT           | 5244                | 8.21 | 12332               | 10.998 | 6188                | 14.845 |
| LOWER LIMIT           | 1311                | 7.21 | 3083                | 9.998  | 1547                | 13.845 |
| EPA SAMPLE NO.        |                     |      |                     |        |                     |        |
| 01 RW8-SP100-20250814 | 2130                | 7.72 | 4994                | 10.50  | 2388                | 14.35  |
| 02 RW8-SP303-20250814 | 2203                | 7.71 | 5181                | 10.50  | 2518                | 14.35  |
| 03 PB169286BL         | 2323                | 7.71 | 5229                | 10.50  | 2344                | 14.35  |
| 04 PB169286BS         | 2389                | 7.71 | 5616                | 10.49  | 2629                | 14.35  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2881

Client ID: SSTDCCC0.4

Date Analyzed: 08/20/2025

Lab File ID: BN037618.D

Time Analyzed: 04:14

Instrument ID: BNA\_N

GC Column: ZB-GR ID: 0.25 (mm)

|                       | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|-----------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD           | 6113                | 17.086 | 5494                | 21.268 | 5322                | 23.499 |
| UPPER LIMIT           | 12226               | 17.586 | 10988               | 21.768 | 10644               | 23.999 |
| LOWER LIMIT           | 3056.5              | 16.586 | 2747                | 20.768 | 2661                | 22.999 |
| EPA SAMPLE NO.        |                     |        |                     |        |                     |        |
| 01 RW8-SP100-20250814 | 5113                | 17.09  | 4521                | 21.27  | 4086                | 23.50  |
| 02 RW8-SP303-20250814 | 5410                | 17.09  | 4670                | 21.27  | 4150                | 23.50  |
| 03 PB169286BL         | 4466                | 17.09  | 3733                | 21.27  | 3552                | 23.50  |
| 04 PB169286BS         | 5040                | 17.09  | 4175                | 21.27  | 3780                | 23.50  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.



# QC SAMPLE DATA

## Report of Analysis

|                    |                               |                  |                 |                |
|--------------------|-------------------------------|------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          |                  | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 |                  | Date Received:  |                |
| Client Sample ID:  | PB169286BL                    |                  | SDG No.:        | Q2881          |
| Lab Sample ID:     | PB169286BL                    |                  | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    |                  | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000                          | Units: mL        | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  |                               | uL               | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  |                               | Decanted : N     | Level :         | LOW            |
| Injection Volume : |                               | GPC Factor : 1.0 | GPC Cleanup :   | N PH :         |
| Prep Method :      |                               |                  |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037619.D        | 1         | 08/18/25 08:41 | 08/20/25 04:50 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.20  | U         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.32  |           | 30 - 150 |      | 81%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.33  |           | 30 - 150 |      | 83%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 55 - 111 |      | 90%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.35  |           | 53 - 106 |      | 86%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.37  |           | 58 - 132 |      | 93%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2320  | 7.71      |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5230  | 10.498    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2340  | 14.345    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4470  | 17.087    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 3730  | 21.268    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 3550  | 23.499    |          |      |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                               |                  |                 |                |      |
|--------------------|-------------------------------|------------------|-----------------|----------------|------|
| Client:            | Tetra Tech NUS, Inc.          |                  | Date Collected: |                |      |
| Project:           | NWIRP Bethpage 112G08005-WE13 |                  | Date Received:  |                |      |
| Client Sample ID:  | PB169286BS                    |                  | SDG No.:        | Q2881          |      |
| Lab Sample ID:     | PB169286BS                    |                  | Matrix:         | Water          |      |
| Analytical Method: | SW8270ESIM                    |                  | % Solid:        | 0              |      |
| Sample Wt/Vol:     | 1000                          | Units: mL        | Final Vol:      | 1000           | uL   |
| Soil Aliquot Vol:  |                               | uL               | Test:           | SVOC-SIMGroup1 |      |
| Extraction Type :  |                               | Decanted : N     | Level :         | LOW            |      |
| Injection Volume : |                               | GPC Factor : 1.0 | GPC Cleanup :   | N              | PH : |
| Prep Method :      |                               |                  |                 |                |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037630.D        | 1         | 08/18/25 08:41 | 08/20/25 11:25 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.30  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.33  |           | 30 - 150 |      | 82%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.31  |           | 30 - 150 |      | 76%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.35  |           | 55 - 111 |      | 87%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36  |           | 53 - 106 |      | 90%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.35  |           | 58 - 132 |      | 88%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2390  | 7.71      |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5620  | 10.487    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2630  | 14.345    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5040  | 17.086    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 4180  | 21.268    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 3780  | 23.502    |          |      |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 08/12/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 08/12/25       |
| Client Sample ID:  | MW-17B-55.5-08122025MS        | SDG No.:        | Q2881          |
| Lab Sample ID:     | Q2842-04MS                    | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 940 Units: mL                 | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  | uL                            | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted : N                  | Level :         | LOW            |
| Injection Volume : | GPC Factor : 1.0              | GPC Cleanup :   | N PH :         |
| Prep Method :      |                               |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037605.D        | 1         | 08/18/25 08:41 | 08/19/25 13:40 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 3.00  |           | 0.070    | 0.21 | 0.21       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.31  |           | 30 - 150 |      | 77%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.38  |           | 30 - 150 |      | 94%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.33  |           | 55 - 111 |      | 83%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.32  |           | 53 - 106 |      | 81%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.47  |           | 58 - 132 |      | 117%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2020  | 7.717     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4770  | 10.498    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2380  | 14.345    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4920  | 17.087    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 4510  | 21.268    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 3910  | 23.505    |          |      |            |          |

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 08/12/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 08/12/25       |
| Client Sample ID:  | MW-17B-55.5-08122025MSD       | SDG No.:        | Q2881          |
| Lab Sample ID:     | Q2842-05MSD                   | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 960 Units: mL                 | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  | uL                            | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted : N                  | Level :         | LOW            |
| Injection Volume : | GPC Factor : 1.0              | GPC Cleanup :   | N PH :         |
| Prep Method :      |                               |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037606.D        | 1         | 08/18/25 08:41 | 08/19/25 14:17 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 3.00  |           | 0.070    | 0.21 | 0.21       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.30  |           | 30 - 150 |      | 76%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.37  |           | 30 - 150 |      | 93%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.32  |           | 55 - 111 |      | 79%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.32  |           | 53 - 106 |      | 81%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.47  |           | 58 - 132 |      | 117%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2020  | 7.717     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4840  | 10.498    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2410  | 14.344    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5010  | 17.086    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 4560  | 21.267    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 3940  | 23.504    |          |      |            |          |

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B = Analyte Found in Associated Method Blank

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\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



# CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN081225.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Wed Aug 13 05:00:58 2025  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN037578.D 0.2 =BN037579.D 0.4 =BN037580.D 0.8 =BN037581.D 1.6 =BN037582.D 3.2 =BN037583.D 5 =BN037584.D

|           | Compound              | 0.1            | 0.2   | 0.4   | 0.8   | 1.6   | 3.2   | 5     | Avg   | %RSD  |
|-----------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----     |                       |                |       |       |       |       |       |       |       |       |
| 1) I      | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2)        | 1,4-Dioxane           | 0.413          | 0.395 | 0.368 | 0.397 | 0.375 | 0.348 | 0.383 |       | 6.08  |
| 3)        | n-Nitrosodimet...     | 0.471          | 0.488 | 0.471 | 0.493 | 0.503 | 0.508 | 0.489 |       | 3.19  |
| 4) S      | 2-Fluorophenol        | 0.922          | 0.945 | 0.888 | 0.823 | 0.886 | 0.906 | 0.977 | 0.907 | 5.41  |
| 5) S      | Phenol-d6             | 1.045          | 1.051 | 1.044 | 0.983 | 1.198 | 1.117 | 1.201 | 1.091 | 7.66  |
| 6)        | bis(2-Chloroet...     | 0.935          | 0.987 | 0.976 | 0.936 | 1.020 | 1.008 | 1.022 | 0.983 | 3.75  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 7) I      | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S      | Nitrobenzene-d5       | 0.270          | 0.257 | 0.262 | 0.264 | 0.292 | 0.301 | 0.326 | 0.282 | 9.03  |
| 9)        | Naphthalene           | 1.044          | 1.050 | 1.037 | 1.012 | 1.089 | 1.096 | 1.127 | 1.065 | 3.78  |
| 10)       | Hexachlorobuta...     | 0.252          | 0.258 | 0.262 | 0.253 | 0.267 | 0.264 | 0.265 | 0.260 | 2.22  |
| 11) SURR2 | Methylnaphth...       | 0.488          | 0.492 | 0.508 | 0.493 | 0.543 | 0.578 | 0.705 | 0.544 | 14.39 |
| 12)       | 2-Methylnaphth...     | 0.589          | 0.631 | 0.635 | 0.629 | 0.701 | 0.731 | 0.760 | 0.668 | 9.39  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 13) I     | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S     | 2,4,6-Tribromo...     | 0.139          | 0.149 | 0.156 | 0.160 | 0.185 | 0.203 | 0.234 | 0.175 | 19.39 |
| 15) S     | 2-Fluorobiphenyl      | 2.226          | 2.243 | 2.300 | 2.251 | 2.341 | 2.391 | 2.440 | 2.313 | 3.50  |
| 16)       | Acenaphthylene        | 1.740          | 1.760 | 1.710 | 1.653 | 1.850 | 1.858 | 1.980 | 1.793 | 6.15  |
| 17)       | Acenaphthene          | 1.144          | 1.150 | 1.172 | 1.154 | 1.283 | 1.286 | 1.348 | 1.220 | 6.86  |
| 18)       | Fluorene              | 1.466          | 1.510 | 1.524 | 1.521 | 1.686 | 1.693 | 1.770 | 1.596 | 7.38  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 19) I     | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20)       | 4,6-Dinitro-2-...     | 0.042          | 0.046 | 0.047 | 0.061 | 0.070 |       | 0.053 |       | 22.37 |
| 21)       | 4-Bromophenyl-...     | 0.226          | 0.236 | 0.234 | 0.237 | 0.265 | 0.271 | 0.292 | 0.251 | 9.77  |
| 22)       | Hexachlorobenzene     | 0.360          | 0.360 | 0.356 | 0.332 | 0.364 | 0.354 | 0.370 | 0.356 | 3.37  |
| 23)       | Atrazine              | 0.127          | 0.126 | 0.130 | 0.134 | 0.160 | 0.176 |       | 0.142 | 14.76 |
| 24)       | Pentachlorophenol     |                | 0.108 | 0.113 | 0.113 | 0.139 | 0.152 |       | 0.125 | 15.36 |
| 25)       | Phenanthrene          | 1.146          | 1.162 | 1.170 | 1.138 | 1.281 | 1.269 | 1.347 | 1.216 | 6.72  |
| 26)       | Anthracene            | 0.950          | 0.985 | 0.995 | 0.988 | 1.145 | 1.186 | 1.286 | 1.077 | 11.93 |
| 27) SURR  | Fluoranthene-d10      | 0.932          | 0.966 | 0.954 | 0.935 | 1.050 | 1.110 | 1.419 | 1.052 | 16.61 |
| 28)       | Fluoranthene          | 1.241          | 1.264 | 1.299 | 1.291 | 1.503 | 1.533 | 1.648 | 1.397 | 11.53 |
|           |                       |                |       |       |       |       |       |       |       |       |
| 29) I     | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30)       | Pyrene                | 1.539          | 1.486 | 1.464 | 1.403 | 1.502 | 1.520 | 1.552 | 1.495 | 3.38  |
| 31) S     | Terphenyl-d14         | 0.814          | 0.801 | 0.796 | 0.763 | 0.833 | 0.853 | 0.901 | 0.823 | 5.45  |
| 32)       | Benzo(a)anthra...     | 1.266          | 1.275 | 1.263 | 1.253 | 1.351 | 1.458 | 1.487 | 1.336 | 7.40  |
| 33)       | Chrysene              | 1.547          | 1.515 | 1.433 | 1.379 | 1.511 | 1.489 | 1.551 | 1.489 | 4.21  |
| 34)       | Bis(2-ethylhex...     |                | 0.518 | 0.522 | 0.483 | 0.522 | 0.593 | 0.671 | 0.551 | 12.47 |
|           |                       |                |       |       |       |       |       |       |       |       |
| 35) I     | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\

Method File : 8270-SIM-BN081225.M

|       |                   |       |       |       |       |       |       |       |       |       |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36)   | Indeno(1,2,3-c... | 1.446 | 1.462 | 1.612 | 1.568 | 1.816 | 1.883 | 2.011 | 1.686 | 13.01 |
| 37)   | Benzo(b)fluora... | 1.351 | 1.375 | 1.338 | 1.432 | 1.615 | 1.674 | 1.825 | 1.516 | 12.52 |
| 38)   | Benzo(k)fluora... | 1.597 | 1.580 | 1.651 | 1.628 | 1.821 | 1.797 | 1.898 | 1.710 | 7.36  |
| 39) C | Benzo(a)pyrene    | 1.146 | 1.136 | 1.149 | 1.157 | 1.322 | 1.382 | 1.508 | 1.257 | 11.77 |
| 40)   | Dibenzo(a,h)an... | 1.023 | 1.118 | 1.222 | 1.215 | 1.439 | 1.516 | 1.621 | 1.308 | 16.85 |
| 41)   | Benzo(g,h,i)pe... | 1.207 | 1.274 | 1.262 | 1.261 | 1.467 | 1.532 | 1.643 | 1.378 | 12.17 |

-----  
(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06  
 Lab Code: ACE SDG No.: Q2881  
 Instrument ID: BNA\_N Calibration Date/Time: 08/19/2025 10:39  
 Lab File ID: BN037600.D Init. Calib. Date(s): 08/12/2025 08/12/2025  
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:26 20:05  
 GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.498  |            | -8.5 | 20.0  |
| Fluoranthene-d10        | 1.052 | 0.957  |            | -9.0 | 20.0  |
| 2-Fluorophenol          | 0.907 | 0.907  |            | 0.0  | 20.0  |
| Phenol-d6               | 1.091 | 1.078  |            | -1.2 | 20.0  |
| Nitrobenzene-d5         | 0.282 | 0.275  |            | -2.5 | 20.0  |
| 2-Fluorobiphenyl        | 2.313 | 2.186  |            | -5.5 | 20.0  |
| 2,4,6-Tribromophenol    | 0.175 | 0.169  |            | -3.4 | 20.0  |
| Terphenyl-d14           | 0.823 | 0.796  |            | -3.3 | 20.0  |
| 1,4-Dioxane             | 0.383 | 0.406  |            | 6.0  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06  
 Lab Code: ACE SDG No.: Q2881  
 Instrument ID: BNA\_N Calibration Date/Time: 08/19/2025 20:19  
 Lab File ID: BN037616.D Init. Calib. Date(s): 08/12/2025 08/12/2025  
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:26 20:05  
 GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.508  |            | -6.6 | 50.0  |
| Fluoranthene-d10        | 1.052 | 0.969  |            | -7.9 | 50.0  |
| 2-Fluorophenol          | 0.907 | 0.927  |            | 2.2  | 50.0  |
| Phenol-d6               | 1.091 | 1.101  |            | 0.9  | 50.0  |
| Nitrobenzene-d5         | 0.282 | 0.270  |            | -4.3 | 50.0  |
| 2-Fluorobiphenyl        | 2.313 | 2.275  |            | -1.6 | 50.0  |
| 2,4,6-Tribromophenol    | 0.175 | 0.174  |            | -0.6 | 50.0  |
| Terphenyl-d14           | 0.823 | 0.818  |            | -0.6 | 50.0  |
| 1,4-Dioxane             | 0.383 | 0.398  |            | 3.9  | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06  
 Lab Code: ACE SDG No.: Q2881  
 Instrument ID: BNA\_N Calibration Date/Time: 08/20/2025 04:14  
 Lab File ID: BN037618.D Init. Calib. Date(s): 08/12/2025 08/12/2025  
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:26 20:05  
 GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.498  |            | -8.5 | 20.0  |
| Fluoranthene-d10        | 1.052 | 0.951  |            | -9.6 | 20.0  |
| 2-Fluorophenol          | 0.907 | 0.875  |            | -3.5 | 20.0  |
| Phenol-d6               | 1.091 | 1.045  |            | -4.2 | 20.0  |
| Nitrobenzene-d5         | 0.282 | 0.281  |            | -0.4 | 20.0  |
| 2-Fluorobiphenyl        | 2.313 | 2.246  |            | -2.9 | 20.0  |
| 2,4,6-Tribromophenol    | 0.175 | 0.175  |            | 0.0  | 20.0  |
| Terphenyl-d14           | 0.823 | 0.793  |            | -3.6 | 20.0  |
| 1,4-Dioxane             | 0.383 | 0.380  |            | -0.8 | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06  
 Lab Code: ACE SDG No.: Q2881  
 Instrument ID: BNA\_N Calibration Date/Time: 08/20/2025 14:56  
 Lab File ID: BN037631.D Init. Calib. Date(s): 08/12/2025 08/12/2025  
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:26 20:05  
 GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.491  |            | -9.7  | 50.0  |
| Fluoranthene-d10        | 1.052 | 0.944  |            | -10.3 | 50.0  |
| 2-Fluorophenol          | 0.907 | 0.853  |            | -6.0  | 50.0  |
| Phenol-d6               | 1.091 | 0.982  |            | -10.0 | 50.0  |
| Nitrobenzene-d5         | 0.282 | 0.275  |            | -2.5  | 50.0  |
| 2-Fluorobiphenyl        | 2.313 | 2.157  |            | -6.7  | 50.0  |
| 2,4,6-Tribromophenol    | 0.175 | 0.172  |            | -1.7  | 50.0  |
| Terphenyl-d14           | 0.823 | 0.717  |            | -12.9 | 50.0  |
| 1,4-Dioxane             | 0.383 | 0.377  |            | -1.6  | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

## LAB CHRONICLE

|                 |                      |                   |                               |
|-----------------|----------------------|-------------------|-------------------------------|
| <b>OrderID:</b> | Q2881                | <b>OrderDate:</b> | 8/15/2025 10:55:00 AM         |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13 |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | J32                           |

| LabID           | ClientID                      | Matrix       | Test          | Method | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|-------------------------------|--------------|---------------|--------|-----------------|-----------|-----------|-----------------|
| <b>Q2881-01</b> | <b>RW8-SP100-2025081</b><br>4 | <b>Water</b> |               |        | <b>08/14/25</b> |           |           | <b>08/15/25</b> |
|                 |                               |              | Metals Group4 | 6010D  |                 | 08/19/25  | 08/20/25  |                 |
| <b>Q2881-02</b> | <b>RW8-SP303-2025081</b><br>4 | <b>Water</b> |               |        | <b>08/14/25</b> |           |           | <b>08/15/25</b> |
|                 |                               |              | Metals Group4 | 6010D  |                 | 08/19/25  | 08/20/25  |                 |

### Hit Summary Sheet SW-846

|                 |                      |                    |                               |
|-----------------|----------------------|--------------------|-------------------------------|
| <b>SDG No.:</b> | Q2881                | <b>Order ID:</b>   | Q2881                         |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project ID:</b> | NWIRP Bethpage 112G08005-WE13 |

| Sample ID                             | Client ID          | Matrix | Parameter | Concentration | C | MDL  | LOD  | RDL  | Units |
|---------------------------------------|--------------------|--------|-----------|---------------|---|------|------|------|-------|
| <b>Client ID : RW8-SP100-20250814</b> |                    |        |           |               |   |      |      |      |       |
| Q2881-01                              | RW8-SP100-20250814 | Water  | Iron      | 566           |   | 11.7 | 40.0 | 50.0 | ug/L  |
| <b>Client ID : RW8-SP303-20250814</b> |                    |        |           |               |   |      |      |      |       |
| Q2881-02                              | RW8-SP303-20250814 | Water  | Iron      | 53.5          |   | 11.7 | 40.0 | 50.0 | ug/L  |



# SAMPLE DATA

## Report of Analysis

|                   |                               |                 |          |
|-------------------|-------------------------------|-----------------|----------|
| Client:           | Tetra Tech NUS, Inc.          | Date Collected: | 08/14/25 |
| Project:          | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 08/15/25 |
| Client Sample ID: | RW8-SP100-20250814            | SDG No.:        | Q2881    |
| Lab Sample ID:    | Q2881-01                      | Matrix:         | Water    |
| Level (low/med):  | low                           | % Solid:        | 0        |

| Cas       | Parameter | Conc. | Qua. | DF | MDL  | LOD  | LOQ / CRQL | Units | Prep Date      | Date Ana.      | Ana Met. | Prep Met. |
|-----------|-----------|-------|------|----|------|------|------------|-------|----------------|----------------|----------|-----------|
| 7439-89-6 | Iron      | 566   |      | 1  | 11.7 | 40.0 | 50.0       | ug/L  | 08/19/25 10:02 | 08/20/25 16:02 | 6010D    | SW3010    |

|               |               |                 |       |            |
|---------------|---------------|-----------------|-------|------------|
| Color Before: | Colorless     | Clarity Before: | Clear | Texture:   |
| Color After:  | Colorless     | Clarity After:  | Clear | Artifacts: |
| Comments:     | Metals Group4 |                 |       |            |

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

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:           | Tetra Tech NUS, Inc.          | Date Collected: | 08/14/25 |
| Project:          | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 08/15/25 |
| Client Sample ID: | RW8-SP303-20250814            | SDG No.:        | Q2881    |
| Lab Sample ID:    | Q2881-02                      | Matrix:         | Water    |
| Level (low/med):  | low                           | % Solid:        | 0        |

| Cas       | Parameter | Conc. | Qua. | DF | MDL  | LOD  | LOQ / CRQL | Units | Prep Date      | Date Ana.      | Ana Met. | Prep Met. |
|-----------|-----------|-------|------|----|------|------|------------|-------|----------------|----------------|----------|-----------|
| 7439-89-6 | Iron      | 53.5  |      | 1  | 11.7 | 40.0 | 50.0       | ug/L  | 08/19/25 10:02 | 08/20/25 16:06 | 6010D    | SW3010    |

|               |               |                 |       |            |
|---------------|---------------|-----------------|-------|------------|
| Color Before: | Colorless     | Clarity Before: | Clear | Texture:   |
| Color After:  | Colorless     | Clarity After:  | Clear | Artifacts: |
| Comments:     | Metals Group4 |                 |       |            |

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

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



# METAL CALIBRATION DATA

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Tetra Tech NUS, Inc.

**SDG No.:** Q2881

**Contract:** TETR06

**Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| ICV01     | Iron    | 3970           | 4000       | 99            | 90 - 110                  | P | 08/20/2025       | 13:04            | LB136898      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Tetra Tech NUS, Inc.

**SDG No.:** Q2881

**Contract:** TETR06

**Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| LLICV01   | Iron    | 103            | 100        | 103           | 80 - 120                  | P | 08/20/2025       | 13:17            | LB136898      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Tetra Tech NUS, Inc.

**SDG No.:** Q2881

**Contract:** TETR06

**Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV01     | Iron    | 5020           | 5000       | 100           | 90 - 110                  | P | 08/20/2025       | 13:47            | LB136898      |
| CCV02     | Iron    | 5060           | 5000       | 101           | 90 - 110                  | P | 08/20/2025       | 14:39            | LB136898      |
| CCV03     | Iron    | 4950           | 5000       | 99            | 90 - 110                  | P | 08/20/2025       | 15:45            | LB136898      |
| CCV04     | Iron    | 4980           | 5000       | 100           | 90 - 110                  | P | 08/20/2025       | 16:35            | LB136898      |
| CCV05     | Iron    | 4930           | 5000       | 98            | 90 - 110                  | P | 08/20/2025       | 17:09            | LB136898      |



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

**Metals**

**- 2b -**

**CRDL STANDARD FOR AA & ICP**

**Client:** Tetra Tech NUS, Inc.

**SDG No.:** Q2881

**Contract:** TETR06

**Lab Code:** ACE

**Initial Calibration Source:** \_\_\_\_\_

**Continuing Calibration Source:** \_\_\_\_\_

| Sample ID | Analyte | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|--------------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CRI01     | Iron    | 95.2           | 100                | 95            | 65 - 135                  | P | 08/20/2025       | 13:26            | LB136898      |



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

### Metals

- 3a -

#### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2881

Contract: TETR06

Lab Code: ACE

| Sample ID | Analyte | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | LOD  | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|------|------|---|------------------|------------------|---------------|
| ICB01     | Iron    | 23.4           | +/-50               | U            | 80.0 | 100  | P | 08/20/2025       | 13:21            | LB136898      |

**Metals**

- 3a -

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2881  
**Contract:** TETR06 **Lab Code:** ACE

| Sample ID | Analyte | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | LOD  | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|------|------|---|------------------|------------------|---------------|
| CCB01     | Iron    | 23.4           | +/-50               | U            | 80.0 | 100  | P | 08/20/2025       | 13:51            | LB136898      |
| CCB02     | Iron    | 23.4           | +/-50               | U            | 80.0 | 100  | P | 08/20/2025       | 14:43            | LB136898      |
| CCB03     | Iron    | 23.4           | +/-50               | U            | 80.0 | 100  | P | 08/20/2025       | 15:49            | LB136898      |
| CCB04     | Iron    | 23.4           | +/-50               | U            | 80.0 | 100  | P | 08/20/2025       | 16:39            | LB136898      |
| CCB05     | Iron    | 23.4           | +/-50               | U            | 80.0 | 100  | P | 08/20/2025       | 17:13            | LB136898      |

**Metals**  
**- 3b -**  
**PREPARATION BLANK SUMMARY**

**Client:** Tetra Tech NUS, Inc.

**SDG No.:** Q2881

**Instrument:** P4

| Sample ID         | Analyte | Result<br>(ug/L) | Acceptance<br>Limit | Conc<br>Qual         | LOD<br>ug/L | CRQL<br>ug/L    | M | Analysis<br>Date  | Analysis<br>Time  | Run      |
|-------------------|---------|------------------|---------------------|----------------------|-------------|-----------------|---|-------------------|-------------------|----------|
| <b>PB169303BL</b> |         | <b>WATER</b>     |                     | <b>Batch Number:</b> |             | <b>PB169303</b> |   | <b>Prep Date:</b> | <b>08/19/2025</b> |          |
|                   | Iron    | 11.7             | <25                 | U                    | 40.0        | 50.0            | P | 08/20/2025        | 15:53             | LB136898 |

A

B

C

D

E

F

G

H

**Metals**  
**- 4 -**  
**INTERFERENCE CHECK SAMPLE**

|                                            |                                 |
|--------------------------------------------|---------------------------------|
| <b>Client:</b> <u>Tetra Tech NUS, Inc.</u> | <b>SDG No.:</b> <u>Q2881</u>    |
| <b>Contract:</b> <u>TETR06</u>             | <b>Lab Code:</b> <u>ACE</u>     |
| <b>ICS Source:</b> <u>EPA</u>              | <b>Instrument ID:</b> <u>P4</u> |

| Sample ID | Analyte | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Low<br>Limit<br>(ug/L) | High<br>Limit<br>(ug/L) | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|--------------------|---------------|------------------------|-------------------------|------------------|------------------|---------------|
| ICSA01    | Iron    | 99200          | 101000             | 98            | 85600                  | 116500                  | 08/20/2025       | 13:30            | LB136898      |
| ICSAB01   | Iron    | 101000         | 99300              | 102           | 84400                  | 114500                  | 08/20/2025       | 13:34            | LB136898      |



# METAL QC DATA

|                            |                      |                     |               |            |               |   |                                  |                      |        |
|----------------------------|----------------------|---------------------|---------------|------------|---------------|---|----------------------------------|----------------------|--------|
| metals                     |                      |                     |               |            |               |   |                                  |                      |        |
| - 5a -                     |                      |                     |               |            |               |   |                                  |                      |        |
| MATRIX SPIKE SUMMARY       |                      |                     |               |            |               |   |                                  |                      |        |
| client:                    | Tetra Tech NUS, Inc. |                     |               | level:     | low           |   | sdg no.:                         | Q2881                |        |
| contract:                  | TETR06               |                     |               |            |               |   | lab code:                        | ACE                  |        |
| matrix:                    | Water                |                     |               | sample id: | Q2881-02      |   | client id:                       | RW8-SP303-20250814MS |        |
| Percent Solids for Sample: | NA                   |                     |               | Spiked ID: | Q2881-02MS    |   | Percent Solids for Spike Sample: | NA                   |        |
| Analyte                    | Units                | Acceptance Limit %R | Spiked Result | C          | Sample Result | C | Spike Added                      | % Recovery           | Qual M |
| Iron                       | ug/L                 | 87 - 115            | 1450          |            | 53.5          |   | 1500                             | 93                   | P      |

metals  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

|                            |                      |                     |            |            |               |             |             |                                  |      |    |  |
|----------------------------|----------------------|---------------------|------------|------------|---------------|-------------|-------------|----------------------------------|------|----|--|
| client:                    | Tetra Tech NUS, Inc. |                     |            | level:     | low           |             | sdg no.:    | Q2881                            |      |    |  |
| contract:                  | TETR06               |                     |            |            |               |             | lab code:   | ACE                              |      |    |  |
| matrix:                    | Water                |                     |            | sample id: | Q2881-02      |             | client id:  | RW8-SP303-20250814MSD            |      |    |  |
| Percent Solids for Sample: |                      | NA                  |            | Spiked ID: |               | Q2881-02MSD |             | Percent Solids for Spike Sample: |      | NA |  |
| Analyte                    | Units                | Acceptance Limit %R | MSD Result | C          | Sample Result | C           | Spike Added | % Recovery                       | Qual | M  |  |
| Iron                       | ug/L                 | 87 - 115            | 1420       |            | 53.5          |             | 1500        | 91                               |      | P  |  |

Metals  
- 5b -

Client: Tetra Tech NUS, Inc.

SDG No.: Q2881

Contract: TETR06

Lab Code: ACE

Matrix:

Level: LOW

Client ID:

Sample ID:

Spiked ID:

| Analyte | Units | Acceptance<br>Limit %R | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|---------|-------|------------------------|---|------------------|---|----------------|---------------|------|---|
|---------|-------|------------------------|---|------------------|---|----------------|---------------|------|---|

.....

**Metals**

- 6 -

**DUPLICATE SAMPLE SUMMARY**

|                                   |                             |                     |                 |                                         |                              |
|-----------------------------------|-----------------------------|---------------------|-----------------|-----------------------------------------|------------------------------|
| <b>Client:</b>                    | <u>Tetra Tech NUS, Inc.</u> | <b>Level:</b>       | <u>LOW</u>      | <b>SDG No.:</b>                         | <u>Q2881</u>                 |
| <b>Contract:</b>                  | <u>TETR06</u>               |                     |                 | <b>Lab Code:</b>                        | <u>ACE</u>                   |
| <b>Matrix:</b>                    | <u>Water</u>                | <b>Sample ID:</b>   | <u>Q2881-02</u> | <b>Client ID:</b>                       | <u>RW8-SP303-20250814DUP</u> |
| <b>Percent Solids for Sample:</b> | NA                          | <b>Duplicate ID</b> | Q2881-02DUP     | <b>Percent Solids for Spike Sample:</b> | NA                           |

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---------|-------|------------------|---------------|---|------------------|---|-----|------|---|
| Iron    | ug/L  | 20               | 53.5          |   | 62.9             |   | 16  |      | P |

“A control limit of  $\pm 20\%$  RPD for each matrix applies for sample values greater than 10 times Detection Limit”

**Metals**

- 6 -

**DUPLICATE SAMPLE SUMMARY**

|                                   |                             |                     |                   |                                         |                              |
|-----------------------------------|-----------------------------|---------------------|-------------------|-----------------------------------------|------------------------------|
| <b>Client:</b>                    | <u>Tetra Tech NUS, Inc.</u> | <b>Level:</b>       | <u>LOW</u>        | <b>SDG No.:</b>                         | <u>Q2881</u>                 |
| <b>Contract:</b>                  | <u>TETR06</u>               |                     |                   | <b>Lab Code:</b>                        | <u>ACE</u>                   |
| <b>Matrix:</b>                    | <u>Water</u>                | <b>Sample ID:</b>   | <u>Q2881-02MS</u> | <b>Client ID:</b>                       | <u>RW8-SP303-20250814MSD</u> |
| <b>Percent Solids for Sample:</b> | NA                          | <b>Duplicate ID</b> | Q2881-02MSD       | <b>Percent Solids for Spike Sample:</b> | NA                           |

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---------|-------|------------------|---------------|---|------------------|---|-----|------|---|
| Iron    | ug/L  | 20               | 1450          |   | 1420             |   | 2   |      | P |

“A control limit of  $\pm 20\%$  RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

|           |                             |           |              |
|-----------|-----------------------------|-----------|--------------|
| Client:   | <u>Tetra Tech NUS, Inc.</u> | SDG No.:  | <u>Q2881</u> |
| Contract: | <u>TETR06</u>               | Lab Code: | <u>ACE</u>   |

| Analyte            | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|--------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB169303BS<br>Iron | ug/L  | 1500       | 1520   |   | 101           | 87 - 115             | P |

**Metals**  
**-9 -**  
**ICP SERIAL DILUTIONS**

**SAMPLE NO.**

RW8-SP303-20250814L

**Lab Name:** Alliance **Contract:** TETR06  
**Lab Code:** ACE **Lb No.:** lb136898 **Lab Sample ID :** Q2881-02L **SDG No.:** Q2881  
**Matrix (soil/water):** Water **Level (low/med):** LOW  
**Concentration Units:** ug/L

| Analyte | Initial Sample<br>Result (I)<br>C | Serial Dilution<br>Result (S)<br>C | % Differ-<br>ence | Q | M |
|---------|-----------------------------------|------------------------------------|-------------------|---|---|
| Iron    | 53.5                              | 63.4 J                             | 18                |   | P |



# METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2881

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent )

| Analyte | Wave-<br>Length<br>(nm) | ICP Interement Correction Factors For: |           |           |           |           |
|---------|-------------------------|----------------------------------------|-----------|-----------|-----------|-----------|
|         |                         | Al                                     | Ca        | Fe        | Mg        | Ag        |
| Iron    | 240.488                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client:

Tetra Tech NUS, Inc.

SDG No.:

Q2881

Contract:

TETR06

Lab Code:

ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent )

| Analyte | Wave-<br>Length<br>(nm) | ICP Interelement Correction Factors For: |           |           |           |            |
|---------|-------------------------|------------------------------------------|-----------|-----------|-----------|------------|
|         |                         | As                                       | Ba        | Be        | Cd        | Co         |
| Iron    | 240.488                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | -0.0039600 |

**Metals**

- 11 -

**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Tetra Tech NUS, Inc.

**SDG No.:** Q2881

**Contract:** TETR06

**Lab Code:** ACE

**Instrument ID:**

**Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-<br>Length<br>(nm) | ICP Interement Correction Factors For: |           |           |           |            |
|---------|-------------------------|----------------------------------------|-----------|-----------|-----------|------------|
|         |                         | Cr                                     | Cu        | K         | Mn        | Mo         |
| Iron    | 240.488                 | 0.0000000                              | 0.0000000 | 0.0000730 | 0.0000000 | -0.0015250 |

**Metals**

- 11 -

**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Tetra Tech NUS, Inc.

**SDG No.:** Q2881

**Contract:** TETR06

**Lab Code:** ACE

**Instrument ID:**

**Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-<br>Length<br>(nm) | ICP Interement Correction Factors For: |            |           |           |           |
|---------|-------------------------|----------------------------------------|------------|-----------|-----------|-----------|
|         |                         | Na                                     | Ni         | Pb        | Sb        | Se        |
| Iron    | 240.488                 | 0.0000000                              | -0.0017000 | 0.0000000 | 0.0000000 | 0.0000000 |

**Metals**

- 11 -

**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Tetra Tech NUS, Inc.

**SDG No.:** Q2881

**Contract:** TETR06

**Lab Code:** ACE

**Instrument ID:**

**Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-<br>Length<br>(nm) | ICP Interement Correction Factors For: |           |           |           |           |
|---------|-------------------------|----------------------------------------|-----------|-----------|-----------|-----------|
|         |                         | Sn                                     | Ti        | Tl        | V         | Zn        |
| Iron    | 240.488                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |



# METAL PREPARATION & ANALYICAL SUMMARY

**Metals**  
**- 13 -**

**SAMPLE PREPARATION SUMMARY**

**Client:** Tetra Tech NUS, Inc.

**SDG No.:** Q2881

**Contract:** TETR06

**Lab Code:** ACE

**Method:** \_\_\_\_\_

| Sample ID                     | Client ID             | Sample Type | Matrix | Prep Date  | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|-------------------------------|-----------------------|-------------|--------|------------|-------------------------|--------------------------|----------------|
| <b>Batch Number: PB169303</b> |                       |             |        |            |                         |                          |                |
| PB169303BL                    | PB169303BL            | MB          | WATER  | 08/19/2025 | 50.0                    | 25.0                     |                |
| PB169303BS                    | PB169303BS            | LCS         | WATER  | 08/19/2025 | 50.0                    | 25.0                     |                |
| Q2881-01                      | RW8-SP100-20250814    | SAM         | WATER  | 08/19/2025 | 50.0                    | 25.0                     |                |
| Q2881-02                      | RW8-SP303-20250814    | SAM         | WATER  | 08/19/2025 | 50.0                    | 25.0                     |                |
| Q2881-02DUP                   | RW8-SP303-20250814DUP | DUP         | WATER  | 08/19/2025 | 50.0                    | 25.0                     |                |
| Q2881-02MS                    | RW8-SP303-20250814MS  | MS          | WATER  | 08/19/2025 | 50.0                    | 25.0                     |                |
| Q2881-02MSD                   | RW8-SP303-20250814MSD | MSD         | WATER  | 08/19/2025 | 50.0                    | 25.0                     |                |

**metals**  
**- 14 -**  
**ANALYSIS RUN LOG**

**Client:** Tetra Tech NUS, Inc.

**Contract:** TETR06

**Lab code:** ACE

**Sdg no.:** Q2881

**Instrument id number:** \_\_\_\_\_

**Method:** \_\_\_\_\_

**Run number:** LB136898

**Start date:** 08/20/2025

**End date:** 08/20/2025

| Lab sample id. | Client Sample Id      | d/f | Time | Parameter list |
|----------------|-----------------------|-----|------|----------------|
| S0             | S0                    | 1   | 1238 | Fe             |
| S1             | S1                    | 1   | 1243 | Fe             |
| S2             | S2                    | 1   | 1247 | Fe             |
| S3             | S3                    | 1   | 1251 | Fe             |
| S4             | S4                    | 1   | 1255 | Fe             |
| S5             | S5                    | 1   | 1259 | Fe             |
| ICV01          | ICV01                 | 1   | 1304 | Fe             |
| LLICV01        | LLICV01               | 1   | 1317 | Fe             |
| ICB01          | ICB01                 | 1   | 1321 | Fe             |
| CRI01          | CRI01                 | 1   | 1326 | Fe             |
| ICSA01         | ICSA01                | 1   | 1330 | Fe             |
| ICSAB01        | ICSAB01               | 1   | 1334 | Fe             |
| CCV01          | CCV01                 | 1   | 1347 | Fe             |
| CCB01          | CCB01                 | 1   | 1351 | Fe             |
| CCV02          | CCV02                 | 1   | 1439 | Fe             |
| CCB02          | CCB02                 | 1   | 1443 | Fe             |
| CCV03          | CCV03                 | 1   | 1545 | Fe             |
| CCB03          | CCB03                 | 1   | 1549 | Fe             |
| PB169303BL     | PB169303BL            | 1   | 1553 | Fe             |
| PB169303BS     | PB169303BS            | 1   | 1558 | Fe             |
| Q2881-01       | RW8-SP100-20250814    | 1   | 1602 | Fe             |
| Q2881-02       | RW8-SP303-20250814    | 1   | 1606 | Fe             |
| Q2881-02DUP    | RW8-SP303-20250814DUP | 1   | 1610 | Fe             |
| Q2881-02L      | RW8-SP303-20250814L   | 5   | 1614 | Fe             |
| Q2881-02MS     | RW8-SP303-20250814MS  | 1   | 1619 | Fe             |
| Q2881-02MSD    | RW8-SP303-20250814MSD | 1   | 1623 | Fe             |
| CCV04          | CCV04                 | 1   | 1635 | Fe             |
| CCB04          | CCB04                 | 1   | 1639 | Fe             |
| CCV05          | CCV05                 | 1   | 1709 | Fe             |
| CCB05          | CCB05                 | 1   | 1713 | Fe             |

## LAB CHRONICLE

|                 |                      |                   |                               |
|-----------------|----------------------|-------------------|-------------------------------|
| <b>OrderID:</b> | Q2881                | <b>OrderDate:</b> | 8/15/2025 10:55:00 AM         |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13 |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | J32                           |

| LabID    | ClientID               | Matrix | Test | Method   | Sample Date       | Prep Date | Anal Date         | Received |
|----------|------------------------|--------|------|----------|-------------------|-----------|-------------------|----------|
| Q2881-01 | RW8-SP100-2025081<br>4 | WATER  |      |          | 08/14/25<br>13:05 |           |                   | 08/15/25 |
|          |                        |        | TDS  | SM2540 C |                   |           | 08/18/25<br>12:30 |          |
|          |                        |        | TSS  | SM2540 D |                   |           | 08/20/25<br>18:10 |          |
| Q2881-02 | RW8-SP303-2025081<br>4 | WATER  |      |          | 08/14/25<br>13:13 |           |                   | 08/15/25 |
|          |                        |        | TDS  | SM2540 C |                   |           | 08/18/25<br>12:30 |          |
|          |                        |        | TSS  | SM2540 D |                   |           | 08/20/25<br>18:10 |          |



# SAMPLE DATA

## Report of Analysis

|                   |                               |                 |                |
|-------------------|-------------------------------|-----------------|----------------|
| Client:           | Tetra Tech NUS, Inc.          | Date Collected: | 08/14/25 13:05 |
| Project:          | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 08/15/25       |
| Client Sample ID: | RW8-SP100-20250814            | SDG No.:        | Q2881          |
| Lab Sample ID:    | Q2881-01                      | Matrix:         | WATER          |
|                   |                               | % Solid:        | 0              |

| Parameter | Conc. | Qua. | DF | MDL  | LOD  | LOQ / CRQL | Units | Prep Date | Date Ana.      | Ana Met.     |
|-----------|-------|------|----|------|------|------------|-------|-----------|----------------|--------------|
| TDS       | 7.00  | J    | 1  | 1.00 | 10.0 | 10.0       | mg/L  |           | 08/18/25 12:30 | SM 2540 C-20 |
| TSS       | 4.00  | U    | 1  | 1.00 | 4.00 | 4.00       | mg/L  |           | 08/20/25 18:10 | SM 2540 D-20 |

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:           | Tetra Tech NUS, Inc.          | Date Collected: | 08/14/25 13:13 |
| Project:          | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 08/15/25       |
| Client Sample ID: | RW8-SP303-20250814            | SDG No.:        | Q2881          |
| Lab Sample ID:    | Q2881-02                      | Matrix:         | WATER          |
|                   |                               | % Solid:        | 0              |

| Parameter | Conc. | Qua. | DF | MDL  | LOD  | LOQ / CRQL | Units | Prep Date | Date Ana.      | Ana Met.     |
|-----------|-------|------|----|------|------|------------|-------|-----------|----------------|--------------|
| TDS       | 3.00  | J    | 1  | 1.00 | 10.0 | 10.0       | mg/L  |           | 08/18/25 12:30 | SM 2540 C-20 |
| TSS       | 4.00  | U    | 1  | 1.00 | 4.00 | 4.00       | mg/L  |           | 08/20/25 18:10 | SM 2540 D-20 |

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

## Preparation Blank Summary

**Client:** Tetra Tech NUS, Inc.

**SDG No.:** Q2881

**Project:** NWIRP Bethpage 112G08005-WE13

| Analyte                      | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|------------------------------|-------|--------|-------------------|-----------|-----|-----|---------------|
| Sample ID: <b>LB136860BL</b> |       |        |                   |           |     |     |               |
| TDS                          | mg/L  | 1      | 5.0000            | J         | 1.0 | 10  | 08/18/2025    |
| Sample ID: <b>LB136903BL</b> |       |        |                   |           |     |     |               |
| TSS                          | mg/L  | 1      | 2.0000            | J         | 1   | 4   | 08/20/2025    |

## Duplicate Sample Summary

|                   |                               |                                         |          |
|-------------------|-------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | Tetra Tech NUS, Inc.          | <b>SDG No.:</b>                         | Q2881    |
| <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13 | <b>Sample ID:</b>                       | Q2881-02 |
| <b>Client ID:</b> | RW8-SP303-20250814DUP         | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/AD | Qual | Analysis Date |
|---------|-------|------------------|---------------|-----------------|------------------|-----------------|-----------------|--------|------|---------------|
| TDS     | mg/L  | +/-5             | 3.00          | J               | 3.00             | J               | 1               | 0      |      | 08/18/2025    |

## Duplicate Sample Summary

|                   |                               |                                         |          |
|-------------------|-------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | Tetra Tech NUS, Inc.          | <b>SDG No.:</b>                         | Q2881    |
| <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13 | <b>Sample ID:</b>                       | Q2902-04 |
| <b>Client ID:</b> | OUTFALL-DSN-002DUP            | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/AD | Qual | Analysis Date |
|---------|-------|------------------|---------------|-----------------|------------------|-----------------|-----------------|--------|------|---------------|
| TSS     | mg/L  | +/-5             | 75.7          |                 | 76.3             |                 | 1               | 0.79   |      | 08/20/2025    |

## Laboratory Control Sample Summary

|                 |                               |                 |          |
|-----------------|-------------------------------|-----------------|----------|
| <b>Client:</b>  | Tetra Tech NUS, Inc.          | <b>SDG No.:</b> | Q2881    |
| <b>Project:</b> | NWIRP Bethpage 112G08005-WE13 | <b>Run No.:</b> | LB136860 |

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB136860BS |            |        |                 |            |                 |                     |               |
| TDS       | mg/L       | 100        | 95.0   |                 | 95         | 1               | 90-110              | 08/18/2025    |

## Laboratory Control Sample Summary

|                 |                               |                 |          |
|-----------------|-------------------------------|-----------------|----------|
| <b>Client:</b>  | Tetra Tech NUS, Inc.          | <b>SDG No.:</b> | Q2881    |
| <b>Project:</b> | NWIRP Bethpage 112G08005-WE13 | <b>Run No.:</b> | LB136903 |

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB136903BS |            |        |                 |            |                 |                     |               |
| TSS       | mg/L       | 550        | 533    |                 | 97         | 1               | 90-110              | 08/20/2025    |



# SHIPPING DOCUMENTS

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### 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                | TX-C25-00189     |
|                      |                  |
| Virginia             | 460312           |