



# SAMPLE DATA

## Report of Analysis

|                   |                              |                 |                |
|-------------------|------------------------------|-----------------|----------------|
| Client:           | Portal Partners Tri-Venture  | Date Collected: | 02/22/25 15:34 |
| Project:          | Amtrak Sawtooth Bridges 2025 | Date Received:  | 02/24/25       |
| Client Sample ID: | B-163-SB01                   | SDG No.:        | Q1415          |
| Lab Sample ID:    | Q1415-01                     | Matrix:         | SOIL           |
|                   |                              | % Solid:        | 88.5           |

| Parameter           | Conc. | Qua. | DF | MDL   | LOQ / CRQL | Units(Dry Weight) | Prep Date      | Date Ana.      | Ana Met. |
|---------------------|-------|------|----|-------|------------|-------------------|----------------|----------------|----------|
| Hexavalent Chromium | 0.087 | U    | 1  | 0.087 | 0.44       | mg/Kg             | 02/26/25 10:40 | 02/26/25 15:14 | 7196A    |
| Trivalent Chromium  | 17.6  |      | 1  | 0.56  | 0.56       | mg/Kg             |                | 03/07/25 11:16 | 6010D    |

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:           | Portal Partners Tri-Venture  | Date Collected: | 02/22/25 16:00 |
| Project:          | Amtrak Sawtooth Bridges 2025 | Date Received:  | 02/24/25       |
| Client Sample ID: | B-172-SB01                   | SDG No.:        | Q1415          |
| Lab Sample ID:    | Q1415-02                     | Matrix:         | SOIL           |
|                   |                              | % Solid:        | 86.6           |

| Parameter           | Conc. | Qua. | DF | MDL   | LOQ / CRQL | Units(Dry Weight) | Prep Date      | Date Ana.      | Ana Met. |
|---------------------|-------|------|----|-------|------------|-------------------|----------------|----------------|----------|
| Hexavalent Chromium | 0.091 | U    | 1  | 0.091 | 0.46       | mg/Kg             | 02/26/25 10:40 | 02/26/25 15:19 | 7196A    |
| Trivalent Chromium  | 13.8  |      | 1  | 0.58  | 0.58       | mg/Kg             |                | 03/07/25 11:20 | 6010D    |

Comments:

U = Not Detected  
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J = Estimated Value  
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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:           | Portal Partners Tri-Venture  | Date Collected: | 02/22/25 16:26 |
| Project:          | Amtrak Sawtooth Bridges 2025 | Date Received:  | 02/24/25       |
| Client Sample ID: | B-163-SB02                   | SDG No.:        | Q1415          |
| Lab Sample ID:    | Q1415-03                     | Matrix:         | SOIL           |
|                   |                              | % Solid:        | 72.4           |

| Parameter           | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units(Dry Weight) | Prep Date      | Date Ana.      | Ana Met. |
|---------------------|-------|------|----|------|------------|-------------------|----------------|----------------|----------|
| Hexavalent Chromium | 0.11  | U    | 1  | 0.11 | 0.54       | mg/Kg             | 02/26/25 10:40 | 02/26/25 15:20 | 7196A    |
| Trivalent Chromium  | 19.0  |      | 1  | 0.69 | 0.69       | mg/Kg             |                | 03/07/25 11:24 | 6010D    |

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

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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:           | Portal Partners Tri-Venture  | Date Collected: | 02/22/25 19:30 |
| Project:          | Amtrak Sawtooth Bridges 2025 | Date Received:  | 02/24/25       |
| Client Sample ID: | B-172-SB02                   | SDG No.:        | Q1415          |
| Lab Sample ID:    | Q1415-04                     | Matrix:         | SOIL           |
|                   |                              | % Solid:        | 89.7           |

| Parameter           | Conc. | Qua. | DF | MDL   | LOQ / CRQL | Units(Dry Weight) | Prep Date      | Date Ana.      | Ana Met. |
|---------------------|-------|------|----|-------|------------|-------------------|----------------|----------------|----------|
| Hexavalent Chromium | 0.087 | U    | 1  | 0.087 | 0.44       | mg/Kg             | 02/26/25 10:40 | 02/26/25 15:21 | 7196A    |
| Trivalent Chromium  | 14.9  |      | 1  | 0.56  | 0.56       | mg/Kg             |                | 03/07/25 11:28 | 6010D    |

Comments:

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J = Estimated Value  
B = Analyte Found in Associated Method Blank  
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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:           | Portal Partners Tri-Venture  | Date Collected: | 02/22/25 20:30 |
| Project:          | Amtrak Sawtooth Bridges 2025 | Date Received:  | 02/24/25       |
| Client Sample ID: | FB02222025                   | SDG No.:        | Q1415          |
| Lab Sample ID:    | Q1415-05                     | Matrix:         | WATER          |
|                   |                              | % Solid:        | 0              |

| Parameter                     | Conc.  | Qua. | DF | MDL    | LOQ / CRQL | Units | Prep Date | Date Ana.      | Ana Met. |
|-------------------------------|--------|------|----|--------|------------|-------|-----------|----------------|----------|
| Dissolved Hexavalent Chromium | 0.0030 | U    | 1  | 0.0030 | 0.010      | mg/L  |           | 02/24/25 13:14 | 7196A    |
| trivalent Chromium            | 0.010  | U    | 1  | 0.010  | 0.010      | mg/L  |           | 03/10/25 13:17 | 6010D    |

Comments:

U = Not Detected  
LOQ = Limit of Quantitation  
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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:           | Portal Partners Tri-Venture  | Date Collected: | 02/22/25 19:45 |
| Project:          | Amtrak Sawtooth Bridges 2025 | Date Received:  | 02/24/25       |
| Client Sample ID: | B-173-GW01                   | SDG No.:        | Q1415          |
| Lab Sample ID:    | Q1415-06                     | Matrix:         | WATER          |
|                   |                              | % Solid:        | 0              |

| Parameter                     | Conc.  | Qua. | DF | MDL    | LOQ / CRQL | Units | Prep Date | Date Ana.      | Ana Met. |
|-------------------------------|--------|------|----|--------|------------|-------|-----------|----------------|----------|
| Dissolved Hexavalent Chromium | 0.0030 | U    | 1  | 0.0030 | 0.010      | mg/L  |           | 02/24/25 13:15 | 7196A    |
| trivalent Chromium            | 0.19   |      | 1  | 0.010  | 0.010      | mg/L  |           | 03/10/25 13:50 | 6010D    |

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

OR = Over Range

N =Spiked sample recovery not within control limits



# QC RESULT SUMMARY



### Initial and Continuing Calibration Verification

**Client:** Portal Partners Tri-Venture  
**Project:** Amtrak Sawtooth Bridges 2025

**SDG No.:** Q1415  
**RunNo.:** LB134791

| Analyte                                       | Units | Result | True Value | %<br>Recovery | Acceptance<br>Window (%R) | Analysis<br>Date |
|-----------------------------------------------|-------|--------|------------|---------------|---------------------------|------------------|
| Sample ID: <b>ICV</b><br>Hexavalent Chromium  | mg/L  | 0.499  | 0.5        | 100           | 90-110                    | 02/24/2025       |
| Sample ID: <b>CCV1</b><br>Hexavalent Chromium | mg/L  | 0.501  | 0.5        | 100           | 90-110                    | 02/24/2025       |
| Sample ID: <b>CCV2</b><br>Hexavalent Chromium | mg/L  | 0.499  | 0.5        | 100           | 90-110                    | 02/24/2025       |

## Initial and Continuing Calibration Verification

**Client:** Portal Partners Tri-Venture

**SDG No.:** Q1415

**Project:** Amtrak Sawtooth Bridges 2025

**RunNo.:** LB134815

| Analyte                                       | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|-----------------------------------------------|-------|--------|------------|------------|------------------------|---------------|
| Sample ID: <b>ICV</b><br>Hexavalent Chromium  | mg/L  | 0.501  | 0.5        | 100        | 90-110                 | 02/26/2025    |
| Sample ID: <b>CCV1</b><br>Hexavalent Chromium | mg/L  | 0.497  | 0.5        | 99         | 90-110                 | 02/26/2025    |
| Sample ID: <b>CCV2</b><br>Hexavalent Chromium | mg/L  | 0.499  | 0.5        | 100        | 90-110                 | 02/26/2025    |
| Sample ID: <b>CCV3</b><br>Hexavalent Chromium | mg/L  | 0.499  | 0.5        | 100        | 90-110                 | 02/26/2025    |

### Initial and Continuing Calibration Verification

**Client:** Portal Partners Tri-Venture

**SDG No.:** Q1415

**Project:** Amtrak Sawtooth Bridges 2025

**RunNo.:** LB134815

| Analyte | Units | Result | True Value | %<br>Recovery | Acceptance<br>Window (%R) | Analysis<br>Date |
|---------|-------|--------|------------|---------------|---------------------------|------------------|
|---------|-------|--------|------------|---------------|---------------------------|------------------|

### Initial and Continuing Calibration Blank Summary

**Client:** Portal Partners Tri-Venture

**SDG No.:** Q1415

**Project:** Amtrak Sawtooth Bridges 2025

**RunNo.:** LB134791

| Analyte                                       | Units | Result   | Acceptance<br>Limits | Conc<br>Qual | MDL    | RDL  | Analysis<br>Date |
|-----------------------------------------------|-------|----------|----------------------|--------------|--------|------|------------------|
| Sample ID: <b>ICB</b><br>Hexavalent Chromium  | mg/L  | < 0.0050 | 0.0050               | U            | 0.0027 | 0.01 | 02/24/2025       |
| Sample ID: <b>CCB1</b><br>Hexavalent Chromium | mg/L  | < 0.0050 | 0.0050               | U            | 0.0027 | 0.01 | 02/24/2025       |
| Sample ID: <b>CCB2</b><br>Hexavalent Chromium | mg/L  | < 0.0050 | 0.0050               | U            | 0.0027 | 0.01 | 02/24/2025       |

### Initial and Continuing Calibration Blank Summary

**Client:** Portal Partners Tri-Venture  
**Project:** Amtrak Sawtooth Bridges 2025

**SDG No.:** Q1415  
**RunNo.:** LB134815

| Analyte                                       | Units | Result   | Acceptance Limits | Conc Qual | MDL    | RDL  | Analysis Date |
|-----------------------------------------------|-------|----------|-------------------|-----------|--------|------|---------------|
| Sample ID: <b>ICB</b><br>Hexavalent Chromium  | mg/L  | < 0.0050 | 0.0050            | U         | 0.0027 | 0.01 | 02/26/2025    |
| Sample ID: <b>CCB1</b><br>Hexavalent Chromium | mg/L  | < 0.0050 | 0.0050            | U         | 0.0027 | 0.01 | 02/26/2025    |
| Sample ID: <b>CCB2</b><br>Hexavalent Chromium | mg/L  | < 0.0050 | 0.0050            | U         | 0.0027 | 0.01 | 02/26/2025    |
| Sample ID: <b>CCB3</b><br>Hexavalent Chromium | mg/L  | < 0.0050 | 0.0050            | U         | 0.0027 | 0.01 | 02/26/2025    |

### Preparation Blank Summary

**Client:** Portal Partners Tri-Venture

**SDG No.:** Q1415

**Project:** Amtrak Sawtooth Bridges 2025

| Analyte                      | Units | Result   | Acceptance<br>Limits | Conc<br>Qual | MDL   | RDL  | Analysis<br>Date |
|------------------------------|-------|----------|----------------------|--------------|-------|------|------------------|
| Sample ID: <b>Ib134791BL</b> |       |          |                      |              |       |      |                  |
| Hexavalent Chromium          | mg/L  | < 0.0050 | 0.0050               | U            | 0.003 | 0.01 | 02/24/2025       |
| Sample ID: <b>PB166851BL</b> |       |          |                      |              |       |      |                  |
| Hexavalent Chromium          | mg/Kg | < 0.2000 | 0.2000               | U            | 0.079 | 0.4  | 02/26/2025       |

## Matrix Spike Summary

|                   |                              |                                         |             |
|-------------------|------------------------------|-----------------------------------------|-------------|
| <b>Client:</b>    | Portal Partners Tri-Venture  | <b>SDG No.:</b>                         | Q1415       |
| <b>Project:</b>   | Amtrak Sawtooth Bridges 2025 | <b>Sample ID:</b>                       | Q1415-01    |
| <b>Client ID:</b> | B-163-SB01MS                 | <b>Percent Solids for Spike Sample:</b> | <b>88.5</b> |

| Analyte             | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Hexavalent Chromium | mg/Kg | 75-125                 | 1370             |                    | 0.087            | U                  | 1450           | 40                 | 94       |      | 02/26/2025       |

Matrix Spike Summary

Client:

Portal Partners Tri-Venture

SDG No.:

Q1415

Project:

Amtrak Sawtooth Bridges 2025

Sample ID:

Q1415-01

Client ID:

B-163-SB01MS

Percent Solids for Spike Sample:

88.5

| Analyte             | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Hexavalent Chromium | mg/Kg | 85-115                 | 43.4             |                    | 0.087            | U                  | 45.2           | 2                  | 96       |      | 02/26/2025       |



## Matrix Spike Summary

|                   |                              |                                         |             |
|-------------------|------------------------------|-----------------------------------------|-------------|
| <b>Client:</b>    | Portal Partners Tri-Venture  | <b>SDG No.:</b>                         | Q1415       |
| <b>Project:</b>   | Amtrak Sawtooth Bridges 2025 | <b>Sample ID:</b>                       | Q1415-01    |
| <b>Client ID:</b> | B-163-SB01MS                 | <b>Percent Solids for Spike Sample:</b> | <b>88.5</b> |

| Analyte             | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Hexavalent Chromium | mg/Kg | 75-125                 | 37.8             |                    | 0.087            | U                  | 45.2           | 2                  | 84       |      | 02/26/2025       |

Matrix Spike Summary

Client:

Portal Partners Tri-Venture

SDG No.:

Q1415

Project:

Amtrak Sawtooth Bridges 2025

Sample ID:

Q1415-06

Client ID:

B-173-GW01MS

Percent Solids for Spike Sample:

0

| Analyte             | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Hexavalent Chromium | mg/L  | 90-111                 | 0.98             |                    | 0.0030           | U                  | 1.0            | 2                  | 98       |      | 02/24/2025       |

Matrix Spike Summary

Client:

Portal Partners Tri-Venture

SDG No.:

Q1415

Project:

Amtrak Sawtooth Bridges 2025

Sample ID:

Q1415-06

Client ID:

B-173-GW01MSD

Percent Solids for Spike Sample:

0

| Analyte             | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Hexavalent Chromium | mg/L  | 90-111                 | 0.98             |                    | 0.0030           | U                  | 1.0            | 2                  | 98       |      | 02/24/2025       |

## Duplicate Sample Summary

|                                                                                                                               |                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Client:</b> Portal Partners Tri-Venture<br><b>Project:</b> Amtrak Sawtooth Bridges 2025<br><b>Client ID:</b> B-163-SB01DUP | <b>SDG No.:</b> Q1415<br><b>Sample ID:</b> Q1415-01<br><b>Percent Solids for Spike Sample:</b> 88.5 |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

| Analyte             | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Hexavalent Chromium | mg/Kg | +/-20               | 0.087            | U                  | 0.087               | U                  | 1                  | 0          |      | 02/26/2025       |

## Duplicate Sample Summary

|                                                                                                                               |                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Client:</b> Portal Partners Tri-Venture<br><b>Project:</b> Amtrak Sawtooth Bridges 2025<br><b>Client ID:</b> B-173-GW01DUP | <b>SDG No.:</b> Q1415<br><b>Sample ID:</b> Q1415-06<br><b>Percent Solids for Spike Sample:</b> 0 |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|

| Analyte             | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Hexavalent Chromium | mg/L  | +/-20               | 0.0030           | U                  | 0.0030              | U                  | 1                  | 0          |      | 02/24/2025       |

## Duplicate Sample Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | Portal Partners Tri-Venture  | <b>SDG No.:</b>                         | Q1415    |
| <b>Project:</b>   | Amtrak Sawtooth Bridges 2025 | <b>Sample ID:</b>                       | Q1415-06 |
| <b>Client ID:</b> | B-173-GW01MSD                | <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 |
|---------------------|-------|------------------|---------------|-----------------|------------------|-----------------|-----------------|--------|------|---------------|
| Hexavalent Chromium | mg/L  | +/-20            | 0.98          |                 | 0.98             |                 | 2               | 0.2    |      | 02/24/2025    |

### Laboratory Control Sample Summary

**Client:** Portal Partners Tri-Venture

**SDG No.:** Q1415

**Project:** Amtrak Sawtooth Bridges 2025

**Run No.:** LB134791

| Analyte             | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---------------------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID           | lb134791BS |            |        |                 |            |                 |                     |               |
| Hexavalent Chromium | mg/L       | 0.5        | 0.50   |                 | 100        | 1               | 90-111              | 02/24/2025    |

### Laboratory Control Sample Summary

**Client:** Portal Partners Tri-Venture

**SDG No.:** Q1415

**Project:** Amtrak Sawtooth Bridges 2025

**Run No.:** LB134815

| Analyte             | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---------------------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID           | PB166851BS |            |        |                 |            |                 |                     |               |
| Hexavalent Chromium | mg/Kg      | 20         | 20.0   |                 | 100        | 1               | 84-110              | 02/26/2025    |



Instrument ID: SPECTROPHOTOMETER-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB134791**

|                  |                                                                                           |              |                      |
|------------------|-------------------------------------------------------------------------------------------|--------------|----------------------|
| Review By        | rubina                                                                                    | Review On    | 2/24/2025 4:00:44 PM |
| Supervise By     | Iwona                                                                                     | Supervise On | 3/7/2025 8:58:18 AM  |
| SubDirectory     | LB134791                                                                                  | Test         | Hexavalent Chromium  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                                                          |              |                      |
| ICAL Standard    | N/A                                                                                       |              |                      |
| ICV Standard     | N/A                                                                                       |              |                      |
| CCV Standard     | N/A                                                                                       |              |                      |
| ICSA Standard    | N/A                                                                                       |              |                      |
| CRI Standard     | N/A                                                                                       |              |                      |
| LCS Standard     | N/A                                                                                       |              |                      |
| Chk Standard     | WP112031,WP112030,WP112028,WP112027,WP111960,WP110380,WP112029,WP112034,WP112032,WP112033 |              |                      |

| Sr# | SampleId    | ClientID      | QcType | Date           | Comment | Operator | Status |
|-----|-------------|---------------|--------|----------------|---------|----------|--------|
| 1   | CAL1        | CAL1          | CAL    | 02/24/25 13:00 |         | rubina   | OK     |
| 2   | CAL2        | CAL2          | CAL    | 02/24/25 13:01 |         | rubina   | OK     |
| 3   | CAL3        | CAL3          | CAL    | 02/24/25 13:02 |         | rubina   | OK     |
| 4   | CAL4        | CAL4          | CAL    | 02/24/25 13:03 |         | rubina   | OK     |
| 5   | CAL5        | CAL5          | CAL    | 02/24/25 13:04 |         | rubina   | OK     |
| 6   | CAL6        | CAL6          | CAL    | 02/24/25 13:05 |         | rubina   | OK     |
| 7   | CAL7        | CAL7          | CAL    | 02/24/25 13:06 |         | rubina   | OK     |
| 8   | ICV         | ICV           | ICV    | 02/24/25 13:07 |         | rubina   | OK     |
| 9   | ICB         | ICB           | ICB    | 02/24/25 13:08 |         | rubina   | OK     |
| 10  | CCV1        | CCV1          | CCV    | 02/24/25 13:09 |         | rubina   | OK     |
| 11  | CCB1        | CCB1          | CCB    | 02/24/25 13:10 |         | rubina   | OK     |
| 12  | RL Check    | RL Check      | SAM    | 02/24/25 13:11 |         | rubina   | OK     |
| 13  | Ib134791BL  | Ib134791BL    | MB     | 02/24/25 13:12 |         | rubina   | OK     |
| 14  | Ib134791BS  | Ib134791BS    | LCS    | 02/24/25 13:13 |         | rubina   | OK     |
| 15  | Q1415-05    | FB02222025    | SAM    | 02/24/25 13:14 |         | rubina   | OK     |
| 16  | Q1415-06    | B-173-GW01    | SAM    | 02/24/25 13:15 |         | rubina   | OK     |
| 17  | Q1415-06DUP | B-173-GW01DUP | DUP    | 02/24/25 13:16 |         | rubina   | OK     |
| 18  | Q1415-06MS  | B-173-GW01MS  | MS     | 02/24/25 13:17 |         | rubina   | OK     |

**Instrument ID:** SPECTROPHOTOMETER-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB134791**

|                  |                                                                                           |              |                      |
|------------------|-------------------------------------------------------------------------------------------|--------------|----------------------|
| Review By        | rubina                                                                                    | Review On    | 2/24/2025 4:00:44 PM |
| Supervise By     | Iwona                                                                                     | Supervise On | 3/7/2025 8:58:18 AM  |
| SubDirectory     | LB134791                                                                                  | Test         | Hexavalent Chromium  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                                                          |              |                      |
| ICAL Standard    | N/A                                                                                       |              |                      |
| ICV Standard     | N/A                                                                                       |              |                      |
| CCV Standard     | N/A                                                                                       |              |                      |
| ICSA Standard    | N/A                                                                                       |              |                      |
| CRI Standard     | N/A                                                                                       |              |                      |
| LCS Standard     | N/A                                                                                       |              |                      |
| Chk Standard     | WP112031,WP112030,WP112028,WP112027,WP111960,WP110380,WP112029,WP112034,WP112032,WP112033 |              |                      |

|    |             |               |     |                |  |        |    |
|----|-------------|---------------|-----|----------------|--|--------|----|
| 19 | Q1415-06MSD | B-173-GW01MSD | MSD | 02/24/25 13:18 |  | rubina | OK |
| 20 | CCV2        | CCV2          | CCV | 02/24/25 13:19 |  | rubina | OK |
| 21 | CCB2        | CCB2          | CCB | 02/24/25 13:20 |  | rubina | OK |

Instrument ID: SPECTROPHOTOMETER-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB134815**

|                  |                                     |              |                      |
|------------------|-------------------------------------|--------------|----------------------|
| Review By        | rubina                              | Review On    | 2/27/2025 9:48:52 AM |
| Supervise By     | Iwona                               | Supervise On | 3/7/2025 8:57:36 AM  |
| SubDirectory     | LB134815                            | Test         | Hexavalent Chromium  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                    |              |                      |
| ICAL Standard    | N/A                                 |              |                      |
| ICV Standard     | N/A                                 |              |                      |
| CCV Standard     | N/A                                 |              |                      |
| ICSA Standard    | N/A                                 |              |                      |
| CRI Standard     | N/A                                 |              |                      |
| LCS Standard     | N/A                                 |              |                      |
| Chk Standard     | WP112061,WP110380,WP110381,WP111249 |              |                      |

| Sr# | SampleId       | ClientID      | QcType | Date           | Comment | Operator | Status |
|-----|----------------|---------------|--------|----------------|---------|----------|--------|
| 1   | CAL1           | CAL1          | CAL    | 02/26/25 15:00 |         | rubina   | OK     |
| 2   | CAL2           | CAL2          | CAL    | 02/26/25 15:01 |         | rubina   | OK     |
| 3   | CAL3           | CAL3          | CAL    | 02/26/25 15:02 |         | rubina   | OK     |
| 4   | CAL4           | CAL4          | CAL    | 02/26/25 15:03 |         | rubina   | OK     |
| 5   | CAL5           | CAL5          | CAL    | 02/26/25 15:04 |         | rubina   | OK     |
| 6   | CAL6           | CAL6          | CAL    | 02/26/25 15:05 |         | rubina   | OK     |
| 7   | CAL7           | CAL7          | CAL    | 02/26/25 15:06 |         | rubina   | OK     |
| 8   | ICV            | ICV           | ICV    | 02/26/25 15:07 |         | rubina   | OK     |
| 9   | ICB            | ICB           | ICB    | 02/26/25 15:08 |         | rubina   | OK     |
| 10  | CCV1           | CCV1          | CCV    | 02/26/25 15:09 |         | rubina   | OK     |
| 11  | CCB1           | CCB1          | CCB    | 02/26/25 15:10 |         | rubina   | OK     |
| 12  | RL Check       | RL Check      | SAM    | 02/26/25 15:11 |         | rubina   | OK     |
| 13  | PB166851BL     | PB166851BL    | MB     | 02/26/25 15:12 |         | rubina   | OK     |
| 14  | PB166851BS     | PB166851BS    | LCS    | 02/26/25 15:13 |         | rubina   | OK     |
| 15  | Q1415-01       | B-163-SB01    | SAM    | 02/26/25 15:14 |         | rubina   | OK     |
| 16  | Q1415-01DUP    | B-163-SB01DUP | DUP    | 02/26/25 15:15 |         | rubina   | OK     |
| 17  | Q1415-01MSPre  | B-163-SB01MS  | MS     | 02/26/25 15:16 |         | rubina   | OK     |
| 18  | Q1415-01MS2Ins | B-163-SB01MS  | MS     | 02/26/25 15:17 |         | rubina   | OK     |

Instrument ID: SPECTROPHOTOMETER-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB134815**

|                  |                                     |              |                      |
|------------------|-------------------------------------|--------------|----------------------|
| Review By        | rubina                              | Review On    | 2/27/2025 9:48:52 AM |
| Supervise By     | Iwona                               | Supervise On | 3/7/2025 8:57:36 AM  |
| SubDirectory     | LB134815                            | Test         | Hexavalent Chromium  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                    |              |                      |
| ICAL Standard    | N/A                                 |              |                      |
| ICV Standard     | N/A                                 |              |                      |
| CCV Standard     | N/A                                 |              |                      |
| ICSA Standard    | N/A                                 |              |                      |
| CRI Standard     | N/A                                 |              |                      |
| LCS Standard     | N/A                                 |              |                      |
| Chk Standard     | WP112061,WP110380,WP110381,WP111249 |              |                      |

|    |                 |              |     |                |  |        |    |
|----|-----------------|--------------|-----|----------------|--|--------|----|
| 19 | Q1415-01MS3Post | B-163-SB01MS | MS  | 02/26/25 15:18 |  | rubina | OK |
| 20 | Q1415-02        | B-172-SB01   | SAM | 02/26/25 15:19 |  | rubina | OK |
| 21 | Q1415-03        | B-163-SB02   | SAM | 02/26/25 15:20 |  | rubina | OK |
| 22 | Q1415-04        | B-172-SB02   | SAM | 02/26/25 15:21 |  | rubina | OK |
| 23 | CCV2            | CCV2         | CCV | 02/26/25 15:22 |  | rubina | OK |
| 24 | CCB2            | CCB2         | CCB | 02/26/25 15:23 |  | rubina | OK |
| 25 | Q1420-01        | TP-1-WC      | SAM | 02/26/25 15:24 |  | rubina | OK |
| 26 | Q1420-05        | TP-2-WC      | SAM | 02/26/25 15:25 |  | rubina | OK |
| 27 | Q1422-01        | B-154-SB01   | SAM | 02/26/25 15:26 |  | rubina | OK |
| 28 | Q1422-02        | B-154-SB02   | SAM | 02/26/25 15:27 |  | rubina | OK |
| 29 | Q1427-01        | VNJ-227      | SAM | 02/26/25 15:28 |  | rubina | OK |
| 30 | Q1428-01        | NB-07-022525 | SAM | 02/26/25 15:29 |  | rubina | OK |
| 31 | CCV3            | CCV3         | CCV | 02/26/25 15:30 |  | rubina | OK |
| 32 | CCB3            | CCB3         | CCB | 02/26/25 15:31 |  | rubina | OK |

## LAB CHRONICLE

|                 |                             |                   |                                        |
|-----------------|-----------------------------|-------------------|----------------------------------------|
| <b>OrderID:</b> | Q1415                       | <b>OrderDate:</b> | 2/24/2025 10:32:00 AM                  |
| <b>Client:</b>  | Portal Partners Tri-Venture | <b>Project:</b>   | Amtrak Sawtooth Bridges 2025           |
| <b>Contact:</b> | Joseph Krupansky            | <b>Location:</b>  | N31,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID           | ClientID          | Matrix       | Test                | Method | Sample Date               | Prep Date | Anal Date         | Received        |
|-----------------|-------------------|--------------|---------------------|--------|---------------------------|-----------|-------------------|-----------------|
| <b>Q1415-01</b> | <b>B-163-SB01</b> | <b>SOIL</b>  |                     |        | <b>02/22/25<br/>15:34</b> |           |                   | <b>02/24/25</b> |
|                 |                   |              | Hexavalent Chromium | 7196A  |                           | 02/26/25  | 02/26/25<br>15:14 |                 |
|                 |                   |              | Trivalent Chromium  | 6010D  |                           |           | 03/07/25<br>11:16 |                 |
| <b>Q1415-02</b> | <b>B-172-SB01</b> | <b>SOIL</b>  |                     |        | <b>02/22/25<br/>16:00</b> |           |                   | <b>02/24/25</b> |
|                 |                   |              | Hexavalent Chromium | 7196A  |                           | 02/26/25  | 02/26/25<br>15:19 |                 |
|                 |                   |              | Trivalent Chromium  | 6010D  |                           |           | 03/07/25<br>11:20 |                 |
| <b>Q1415-03</b> | <b>B-163-SB02</b> | <b>SOIL</b>  |                     |        | <b>02/22/25<br/>16:26</b> |           |                   | <b>02/24/25</b> |
|                 |                   |              | Hexavalent Chromium | 7196A  |                           | 02/26/25  | 02/26/25<br>15:20 |                 |
|                 |                   |              | Trivalent Chromium  | 6010D  |                           |           | 03/07/25<br>11:24 |                 |
| <b>Q1415-04</b> | <b>B-172-SB02</b> | <b>SOIL</b>  |                     |        | <b>02/22/25<br/>19:30</b> |           |                   | <b>02/24/25</b> |
|                 |                   |              | Hexavalent Chromium | 7196A  |                           | 02/26/25  | 02/26/25<br>15:21 |                 |
|                 |                   |              | Trivalent Chromium  | 6010D  |                           |           | 03/07/25<br>11:28 |                 |
| <b>Q1415-05</b> | <b>FB02222025</b> | <b>WATER</b> |                     |        | <b>02/22/25<br/>20:30</b> |           |                   | <b>02/24/25</b> |
|                 |                   |              | Hexavalent Chromium | 7196A  |                           |           | 02/24/25<br>13:14 |                 |

### LAB CHRONICLE

|          |            |       |                     |       |                   |                   |  |
|----------|------------|-------|---------------------|-------|-------------------|-------------------|--|
| Q1415-06 | B-173-GW01 | WATER | trivalent Chromium  | 6010D |                   | 03/10/25<br>13:17 |  |
|          |            |       |                     |       | 02/22/25<br>19:45 | 02/24/25          |  |
|          |            |       | Hexavalent Chromium | 7196A |                   | 02/24/25<br>13:15 |  |
|          |            |       | trivalent Chromium  | 6010D |                   | 03/10/25<br>13:50 |  |

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 02/26/2025 Time : 10:40 Temp : 90 °C

End Digest Date: 02/26/2025 Time : 11:40 Temp : 95 °C

*11 batch*  
 02/26/2025 12:00 90°C JR  
 02/26/2025 13:00 95°C JR

Digestion tube ID : M6054

Block Thermometer ID : WC-Block#1

Filter paper ID : 400213

 Prep Technician Signature: *Rif*

pH Meter ID : WC pH meter-1

 Supervisor Signature: *12*

| Standard Name        | MLS USED | STD REF. # FROM LOG |
|----------------------|----------|---------------------|
| PRE-DIGESTION SPIKE  | 2.0ML    | WP111315            |
| INSOLUBLE SPIKE      | 0.02GM   | W2202               |
| POST-DIGESTION SPIKE | 2.0ML    | WP111315            |
| LCSS                 | 1.0ML    | WP111316            |
| PBS003               | 50.0ML   | W3112               |

| Chemical Used        | ML/SAMPLE USED | Lot Number |
|----------------------|----------------|------------|
| MAGNESIUM CHLORIDE   | 0.4GM          | W3152      |
| PHOSPHATE BUFFER     | 0.5ML          | WP110498   |
| HEX. DIGESTION SOLN. | 50.0ML         | WP111908   |
| 5M HNO3              | 5-7ML          | WP110381   |
| 5N H2SO4             | 1-3ML          | WP110380   |
| N/A                  | N/A            | N/A        |
| N/A                  | N/A            | N/A        |
| N/A                  | N/A            | N/A        |
| N/A                  | N/A            | N/A        |
| N/A                  | N/A            | N/A        |
| N/A                  | N/A            | N/A        |

| LAB SAMPLE ID | CLIENT SAMPLE ID | Vol(ml) | Comment  |
|---------------|------------------|---------|----------|
| CAL1          | CAL1             | 2.5ML   | W3112    |
| CAL2          | CAL2             | 0.2ML   | WP112057 |
| CAL3          | CAL3             | 0.5ML   | WP112057 |
| CAL4          | CAL4             | 1ML     | WP112057 |
| CAL5          | CAL5             | 0.2ML   | WP111315 |
| CAL6          | CAL6             | 1ML     | WP111315 |
| CAL7          | CAL7             | 2.0ML   | WP111315 |
| ICV           | ICV              | 1ML     | WP111316 |
| ICB           | ICB              | 2.5ML   | W3112    |
| CCV           | CCV              | 1ML     | WP111315 |
| CCB           | CCB              | 2.5ML   | W3112    |

Extraction Conformance/Non-Conformance Comments:

N/A

 02/26/2025 *217*

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
|             |                                         |                      |
|             | Preparation Group                       | Analysis Group       |

| Lab Sample ID   | Client Sample ID  | Initial Weight (g) | Final Vol (ml) | pH  | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|-----------------|-------------------|--------------------|----------------|-----|---------|-----------|------------------|---------|----------|
| PB166851BL      | PBS851            | 2.50               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| PB166851BS      | LCS851            | 2.50               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1415-01        | B-163-SB01        | 2.56               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1415-01DUP     | B-163-SB01DUP     | 2.56               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1415-01MSPre   | B-163-SB01MSPRE   | 2.55               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1415-01MS2Ins  | B-163-SB01MS2INS  | 2.57               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1415-01MS3Post | B-163-SB01MS3POST | 2.56               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1415-02        | B-172-SB01        | 2.52               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1415-03        | B-163-SB02        | 2.54               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1415-04        | B-172-SB02        | 2.52               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1420-01        | TP-1-WC           | 2.54               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1420-05        | TP-2-WC           | 2.54               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1422-01        | B-154-SB01        | 2.57               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1422-02        | B-154-SB02        | 2.56               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1427-01        | VNJ-227           | 2.53               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q1428-01        | NB-07-022525      | 2.56               | 100            | N/A | N/A     | N/A       | N/A              | N/A     | N/A      |