



# QRev Discharge Measurement Report

1 of 4

Station Name: 05312024\_KrumboBridge

Station Number:

Measurement Date: 2024.05.31

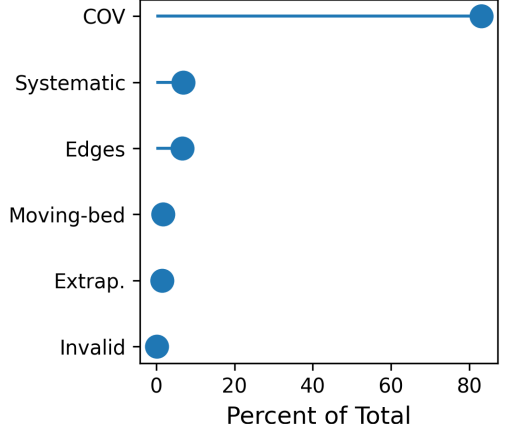
Measurement Number: 0

Discharge: 363.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 10:38:00

| Field Crew:          |           | Discharge Summary        |          | Cross Section                                                                                                             |         |
|----------------------|-----------|--------------------------|----------|---------------------------------------------------------------------------------------------------------------------------|---------|
| Processed By:        | sarah     | Discharge (ft3/s):       | 363.0    | Mean Velocity (ft/s):                                                                                                     | 2.272   |
| Software:            | QRev      | Navigation Ref.:         | bt_vel   | Max. Velocity (ft/s):                                                                                                     | 4.192   |
| Version:             | 4.36      | Total Duration (s):      | 725.1    | Mean Depth (ft):                                                                                                          | 5.181   |
| ADCP                 |           | Start Time:              | 11:41:10 | Max. Depth (ft):                                                                                                          | 6.440   |
| Manufacturer:        | TRDI      | End Time:                | 11:57:58 | Width (ft):                                                                                                               | 30.941  |
| Model:               | StreamPro | Stage Start:             | 0.00     | Width COV (%):                                                                                                            | 12.18   |
| Serial Number:       | 2673      | Stage End:               | 0.00     | Area (ft2):                                                                                                               | 159.891 |
| Firmware:            | 31.19     | Mean Stage:              | 0.00     | Area COV (%):                                                                                                             | 9.15    |
| Frequency (kHz):     | 2000      | Mean Boat Speed (ft/s):  | 0.218    | Uncertainty                                                                                                               |         |
| Premeasurement       |           | Top Extrap:              | Constant | Uncertainty Method: QRev                                                                                                  |         |
| W. Temp. (C):        | 11.4      | Bottom Extrap:           | No Slip  | <b>95% Total Uncertainty: 11.4</b><br> |         |
| W. Temp. ADCP (C):   |           | Extrap Exponent:         | 0.2876   |                                                                                                                           |         |
| System Test:         | Passed    | Discharg COV (%):        | 6.52     |                                                                                                                           |         |
| Compass Cal/Eval:    | 0.66      | Top Q (%):               | 5.45     |                                                                                                                           |         |
| Magnetic Variaton:   | 0.0       | Measured Q (%):          | 71.90    |                                                                                                                           |         |
| MovBed Test Type:    | Loop      | Left Q (%):              | 7.15     |                                                                                                                           |         |
| MovBed Test Quality: | Good      | Right Q (%):             | 2.59     |                                                                                                                           |         |
| MovBed Test Dur.(s): | 196.0     | Bottom Q (%):            | 8.71     |                                                                                                                           |         |
| Max MovBed (%):      | 3.13      | Invalid Cells Q (%):     | 0.01     |                                                                                                                           |         |
| Q Correction (%):    | 4.37      | Invalid Ensembles Q (%): | 1.89     |                                                                                                                           |         |

## Automated QA Messages:

### WARNINGS

- Edges: Edge Q is greater than 5%;

### Cautions

- Edges: Excessive boat movement in edge ensembles;
- Moving-Bed Test: A moving-bed is present.
- Moving-Bed: BT based moving-bed correction applied.
- Transects: The number of invalid ensembles at the left edge exceeds 5 percent;
- Transects: The number of invalid ensembles at the right edge exceeds 5 percent;
- Site Info: Station number not entered;

## Comments:

- MMT Remarks:



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## Comments:

- [Main, 2024-07-14 10:36:19, sarah]: Transects 004 and 005 unchecked from WinRiver due to red transect, 000 and 001 unchecked in Qrev due to bottom tracking issues.
- [2024-07-14 10:37:56, sarah]: File Saved Q = 362.66 ft3/s (Uncertainty: 11.4%)

| ID | File Name                       |
|----|---------------------------------|
| 2  | 05312024_KrumboBridge_0_002.PD0 |
| 3  | 05312024_KrumboBridge_0_003.PD0 |
| 6  | 05312024_KrumboBridge_0_006.PD0 |
| 7  | 05312024_KrumboBridge_0_007.PD0 |

| Transect ID | Start Edge | Start Time | End Time | Duration (sec) | Top Q (ft3/s) | Middle Q (ft3/s) | Bottom Q (ft3/s) | Left Q (ft3/s) | Right Q (ft3/s) | Total Q (ft3/s) |
|-------------|------------|------------|----------|----------------|---------------|------------------|------------------|----------------|-----------------|-----------------|
| 2           | Left       | 11:41:10   | 11:44:37 | 207.6          | 17.4          | 244.0            | 27.0             | 23.7           | 10.1            | 334.0           |
| 3           | Right      | 11:44:45   | 11:48:03 | 198.2          | 22.5          | 276.0            | 38.7             | 26.9           | 8.67            | 389.0           |
| 6           | Left       | 11:55:26   | 11:57:52 | 145.5          | 20.0          | 264.0            | 31.9             | 25.6           | 10.1            | 373.0           |
| 7           | Right      | 11:57:58   | 12:00:52 | 173.9          | 19.2          | 259.0            | 28.8             | 27.5           | 8.8             | 355.0           |
|             |            |            |          | 725.1          | 19.8          | 261.0            | 31.6             | 25.9           | 9.4             | 363.0           |

| Transect ID | Start Edge | Left Edge Type | Left Dist. (ft) | Left Edge # Ens. | Left Edge Coeff. | Right Edge Type | Right Dist. (ft) | Right Edge # Ens. | Right Edge Coeff. |
|-------------|------------|----------------|-----------------|------------------|------------------|-----------------|------------------|-------------------|-------------------|
| 2           | Left       | Triangular     | 1.52            | 10               | 0.3535           | Triangular      | 0.61             | 10                | 0.3535            |
| 3           | Right      | Triangular     | 1.52            | 10               | 0.3535           | Triangular      | 0.61             | 10                | 0.3535            |
| 6           | Left       | Triangular     | 1.52            | 10               | 0.3535           | Triangular      | 0.61             | 10                | 0.3535            |
| 7           | Right      | Triangular     | 1.52            | 10               | 0.3535           | Triangular      | 0.61             | 10                | 0.3535            |



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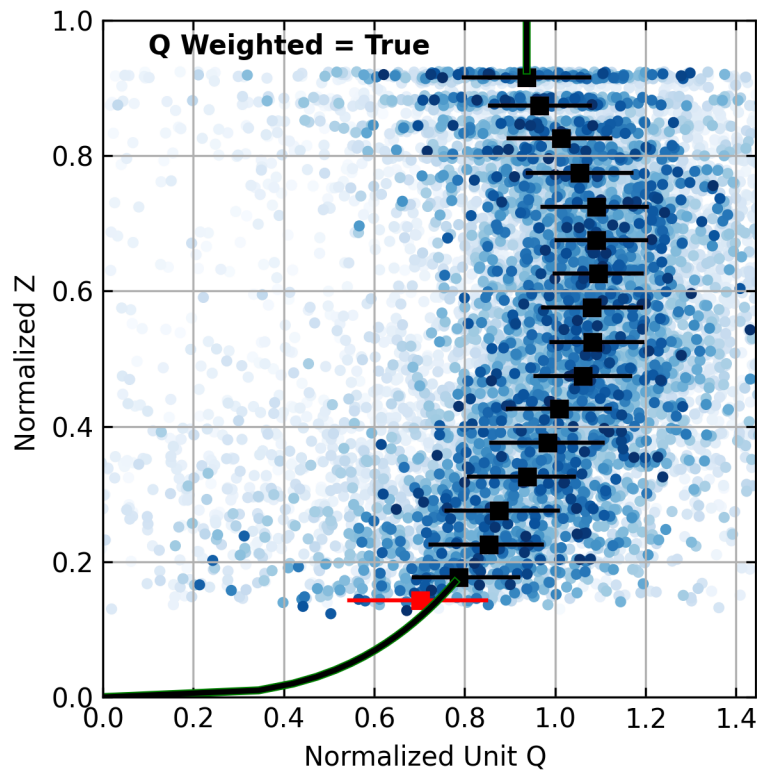
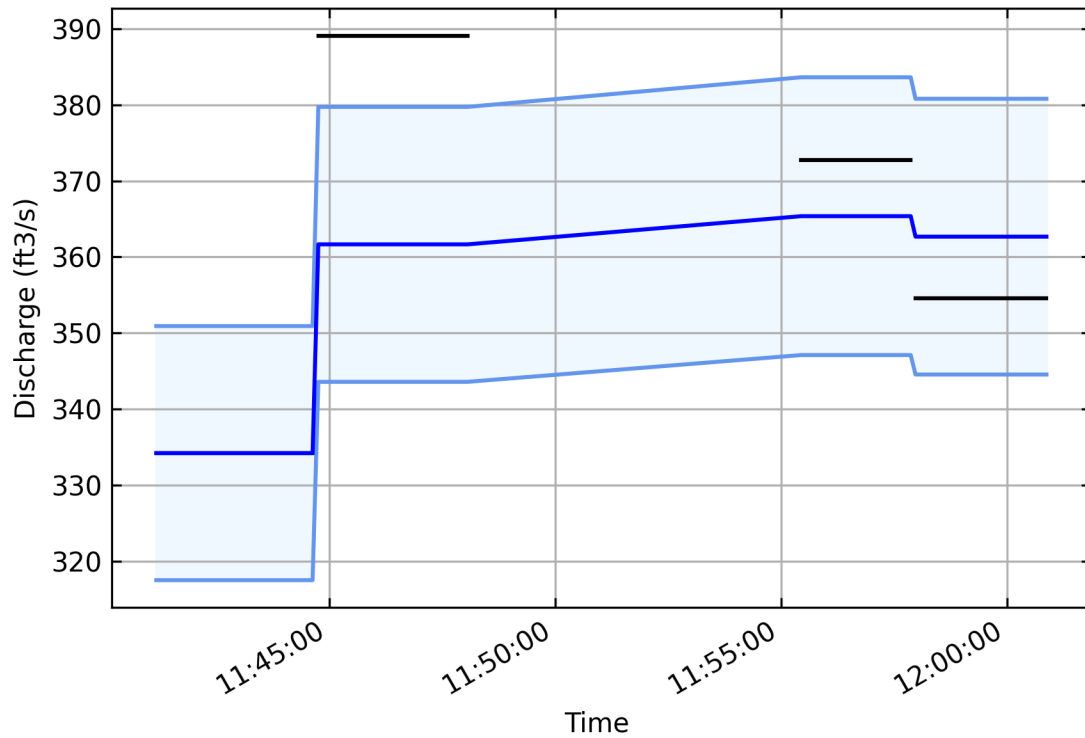
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