



QRev Discharge Measurement Report

1 of 4

Station Name: 06272025_RockfordBridge

Station Number:

Measurement Date: 2025.06.27

Measurement Number: 0

Discharge: 141.98

Stage: 0.00

User Rating: Not Rated

Processed: 2025.07.02 06:55:54

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	141.98	Mean Velocity (ft/s):	0.925														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.140														
Version:	4.37	Total Duration (s):	756.6	Mean Depth (ft):	4.792														
ADCP		Start Time:	14:15:59	Max. Depth (ft):	6.747														
Manufacturer:	TRDI	End Time:	14:32:20	Width (ft):	32.030														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	0.98														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	153.475														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	1.08														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.157	Uncertainty Uncertainty Method: QRev 95% Total Uncertainty: 5.0 <table><thead><tr><th>Category</th><th>Percent of Total</th></tr></thead><tbody><tr><td>Systematic</td><td>35</td></tr><tr><td>COV</td><td>28</td></tr><tr><td>Edges</td><td>22</td></tr><tr><td>Extrap.</td><td>12</td></tr><tr><td>Moving-bed</td><td>5</td></tr><tr><td>Invalid</td><td>2</td></tr></tbody></table>		Category	Percent of Total	Systematic	35	COV	28	Edges	22	Extrap.	12	Moving-bed	5	Invalid	2
Category	Percent of Total																		
Systematic	35																		
COV	28																		
Edges	22																		
Extrap.	12																		
Moving-bed	5																		
Invalid	2																		
Premeasurement		Top Extrap:	Constant																
W. Temp. (C):	20.0	Bottom Extrap:	No Slip																
W. Temp. ADCP (C):		Extrap Exponent:	0.2716																
System Test:	Passed	Discharg COV (%):	1.67																
Compass Cal/Eval:	1.17	Top Q (%):	6.68																
Magnetic Variaton:	13.5	Measured Q (%):	72.92																
MovBed Test Type:	Loop	Left Q (%):	2.97																
MovBed Test Quality:	Good	Right Q (%):	4.69																
MovBed Test Dur.(s):	204.5	Bottom Q (%):	12.74																
Max MovBed (%):	0.22	Invalid Cells Q (%):	0.12																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.51																

Automated QA Messages:

WARNINGS

- Edges: One or more transects have an edge edge Q greater than 5%;

Cautions

- Compass: Evaluation result > 1 deg;
- Moving-Bed Test: Loop test used but compass calibration is caution
- Site Info: Station number not entered;

Comments:

- MMT Remarks:



QRev Discharge Measurement Report

2 of 4

Station Name: 06272025_RockfordBridge

Station Number:

Measurement Date: 2025.06.27

Measurement Number: 0

Discharge: 141.98

Stage: 0.00

User Rating: Not Rated

Processed: 2025.07.02 06:55:54

Comments:

- [Main, 2025-07-02 06:50:44, sarah]: There is no Station Number for this site. Compass calibration metric used is less than two degrees. Measurement conditions were less than ideal. Northerly winds and extremely slow moving water were pushing the boat upstream under the bridge. Forced to move transect upstream by about 10 feet and hold the boat rope directly in line with the bridge. Underwater rocks on the edges due to the bridge caused larger edges, particularly on the right edge. Measurement conditions were sunny, hot (80s F), and windy. Measurement should be considered an estimate given needing to move the transect from usual location and for larger edge discharge.
- [2025-07-02 06:55:48, sarah]: File Saved Q = 141.98 ft³/s (Uncertainty: 5.0%)

ID	File Name
0	06272025_RockfordBridge_0_000_25-06-27.PD0
1	06272025_RockfordBridge_0_002_25-06-27.PD0
2	06272025_RockfordBridge_0_004_25-06-27.PD0
3	06272025_RockfordBridge_0_005_25-06-27.PD0

Transect ID	Start Edge	Start Time	End Time	Duration (sec)	Top Q (ft3/s)	Middle	Bottom	Left Q (ft3/s)	Right Q (ft3/s)	Total Q (ft3/s)
						Q (ft3/s)	Q (ft3/s)			
0	Left	14:15:59	14:18:52	173.0	9.53	105.09	19.67	3.86	7.3	145.45
1	Right	14:21:08	14:24:25	196.8	9.53	103.78	18.02	6.31	3.77	141.41
2	Left	14:28:58	14:32:07	189.6	9.38	103.6	17.26	3.12	7.51	140.87
3	Right	14:32:20	14:35:37	197.2	9.51	101.63	17.43	3.57	8.06	140.19
				756.6	9.49	103.53	18.09	4.21	6.66	141.98

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.
0	Left	Triangular	3.00	10	0.3535	Triangular	5.00	10	0.3535
1	Right	Triangular	5.00	10	0.3535	Triangular	3.00	10	0.3535
2	Left	Triangular	3.00	10	0.3535	Triangular	5.00	10	0.3535
3	Right	Triangular	3.00	10	0.3535	Triangular	5.00	10	0.3535



QRev Discharge Measurement Report

3 of 4

Station Name: 06272025_RockfordBridge

Station Number:

Measurement Date: 2025.06.27

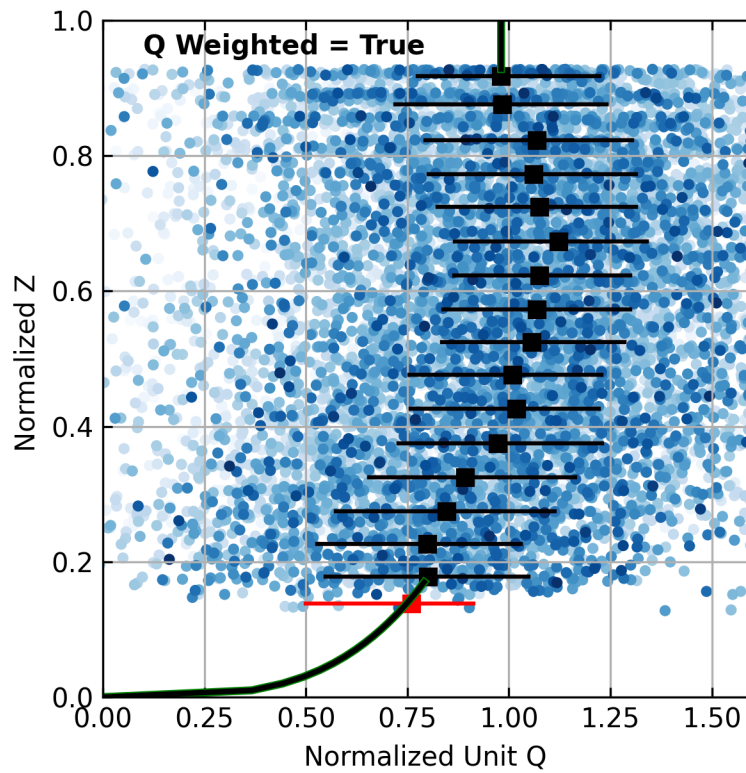
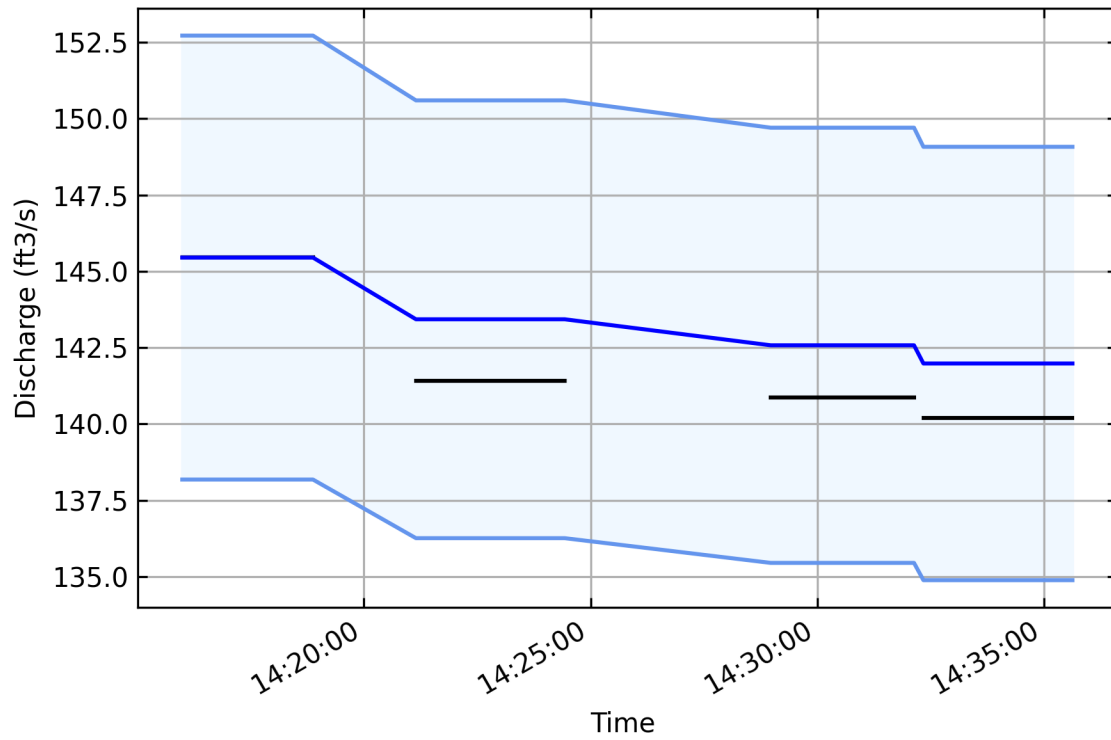
Measurement Number: 0

Discharge: 141.98

Stage: 0.00

User Rating: Not Rated

Processed: 2025.07.02 06:55:54





QRev Discharge Measurement Report

4 of 4

Station Name: 06272025_RockfordBridge

Station Number:

Measurement Date: 2025.06.27

Measurement Number: 0

Discharge: 141.98

Stage: 0.00

User Rating: Not Rated

Processed: 2025.07.02 06:55:55

