



QRev Discharge Measurement Report

1 of 5

Station Name: RockfordBridge_04182024

Station Number:

Measurement Date: 2025.04.18

Measurement Number: 0

Discharge: 488.77

Stage: 0.00

User Rating: Not Rated

Processed: 2025.04.18 13:07:52

Field Crew:		Discharge Summary		Cross Section															
Processed By:	ADCPH	Discharge (ft3/s):	488.77	Mean Velocity (ft/s):	1.967														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.511														
Version:	4.37	Total Duration (s):	2056.5	Mean Depth (ft):	6.137														
ADCP		Start Time:	08:59:56	Max. Depth (ft):	8.654														
Manufacturer:	TRDI	End Time:	09:43:04	Width (ft):	40.482														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.52														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	248.465														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	2.95														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.177	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	7.5	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.2 <table><tr><th>Component</th><th>Value (%)</th></tr><tr><td>COV</td><td>4.43</td></tr><tr><td>Systematic</td><td>5.2</td></tr><tr><td>Moving-bed</td><td>0.99</td></tr><tr><td>Extrap.</td><td>13.5</td></tr><tr><td>Edges</td><td>0.99</td></tr><tr><td>Invalid</td><td>0.01</td></tr></table>		Component	Value (%)	COV	4.43	Systematic	5.2	Moving-bed	0.99	Extrap.	13.5	Edges	0.99	Invalid	0.01
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Edges	0.99																		
Invalid	0.01																		
W. Temp. ADCP (C):		Extrap Exponent:	0.2604																
System Test:	Passed	Discharg COV (%):	4.43																
Compass Cal/Eval:	0.99	Top Q (%):	5.27																
Magnetic Variaton:	13.5	Measured Q (%):	77.55																
MovBed Test Type:	Loop	Left Q (%):	2.07																
MovBed Test Quality:	Good	Right Q (%):	1.38																
MovBed Test Dur.(s):	341.4	Bottom Q (%):	12.07																
Max MovBed (%):	1.78	Invalid Cells Q (%):	0.01																
Q Correction (%):	1.68	Invalid Ensembles Q (%):	0.83																

Automated QA Messages:

WARNINGS

Cautions

- Moving-Bed Test: A moving-bed is present.
- Moving-Bed: BT based moving-bed correction applied.
- Site Info: Station number not entered;

Comments:

- MMT Remarks:
- [Main, 2025-04-18 12:59:25, ADCPH]: Moving bed present on left half of channel due to higher water velocities than right half of channel. Slow moving water and somewhat windy conditions caused slightly excessive boat movement on the right half of transects. Moving bed causing transect repeatability to be somewhat poor and a total of 8 transects were necessary to be accepted by WinRiver software. There is no station number for this location.
- [2025-04-18 13:07:44, ADCPH]: File Saved Q = 488.77 ft3/s (Uncertainty: 5.2%)



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ID	File Name
0	RockfordBridge_04182025_0_000_25-04-18.PD0
1	RockfordBridge_04182025_0_003_25-04-18.PD0
2	RockfordBridge_04182025_0_004_25-04-18.PD0
3	RockfordBridge_04182025_0_006_25-04-18.PD0
4	RockfordBridge_04182025_0_007_25-04-18.PD0
5	RockfordBridge_04182025_0_008_25-04-18.PD0
6	RockfordBridge_04182025_0_009_25-04-18.PD0
7	RockfordBridge_04182025_0_011_25-04-18.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)
0	Left	08:59:56	09:04:03	247.1	26.62	398.51	61.13	10.1	4.77	505.16
1	Right	09:06:44	09:10:49	245.3	24.22	362.17	55.06	8.31	7.79	472.32
2	Left	09:11:01	09:15:24	263.6	28.79	411.56	66.59	9.69	5.29	521.88
3	Right	09:17:07	09:21:15	247.7	22.56	342.4	57.73	12.83	8.03	462.42
4	Left	09:22:09	09:26:33	263.8	27.86	394.32	61.83	9.02	6.0	493.59
5	Right	09:26:58	09:30:50	232.4	25.04	363.37	59.73	11.35	7.62	480.24
6	Left	09:32:15	09:36:51	275.7	27.51	404.85	56.53	10.34	8.03	507.83
7	Right	09:43:04	09:47:45	280.8	23.47	355.22	53.34	9.32	6.45	466.69
				2056.5	25.76	379.05	58.99	10.12	6.75	488.77

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	4.00	10	0.3535	Triangular	4.00	10	0.3535
1	Right	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
2	Left	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
3	Right	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
4	Left	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
5	Right	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
6	Left	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
7	Right	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535



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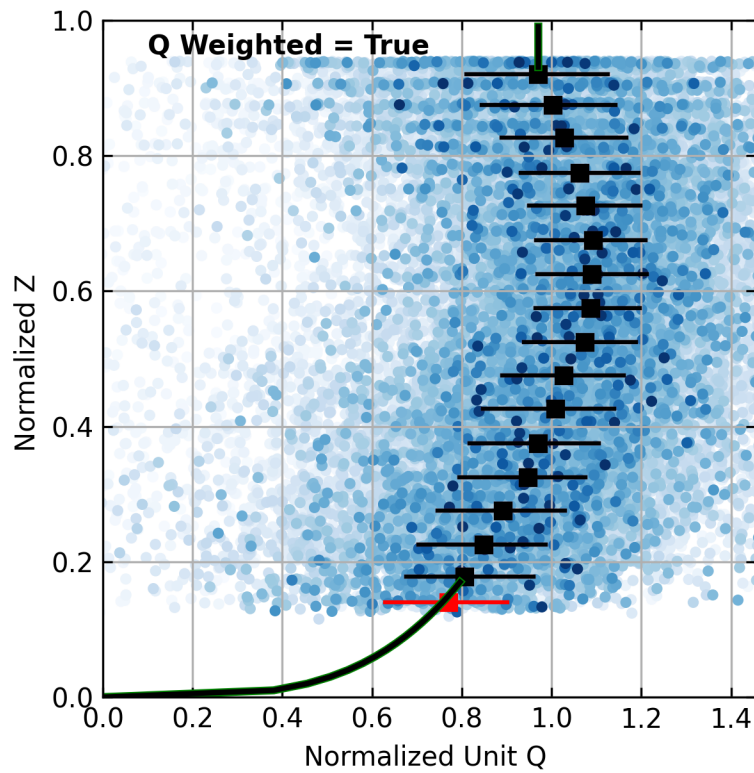
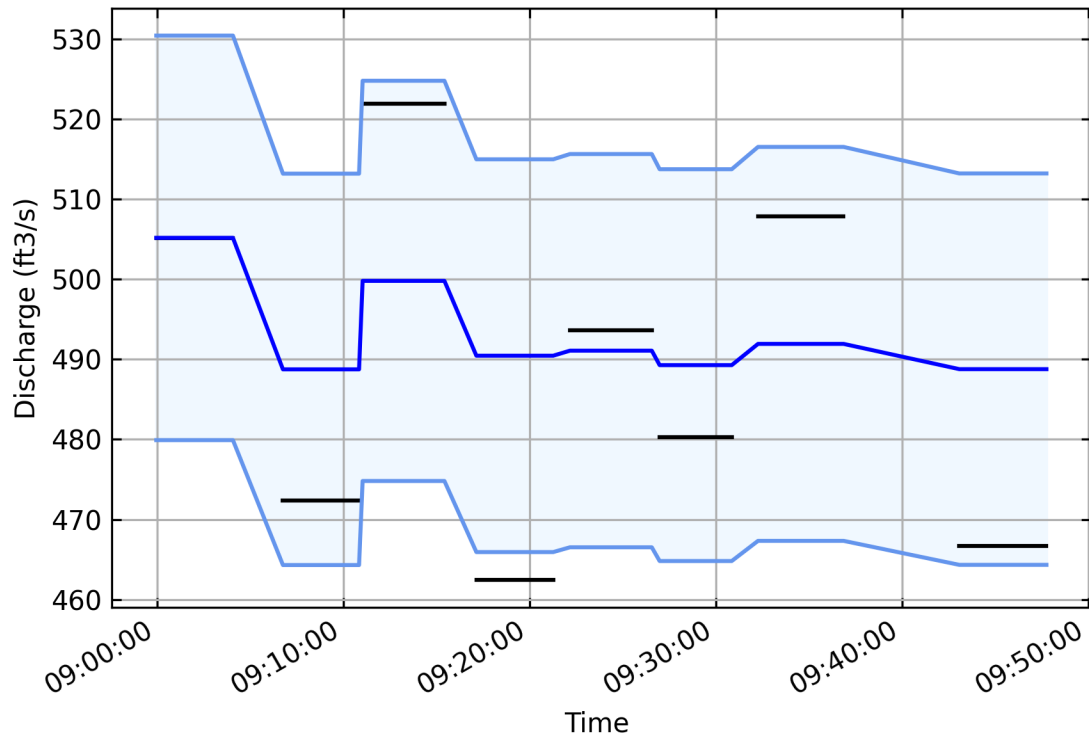
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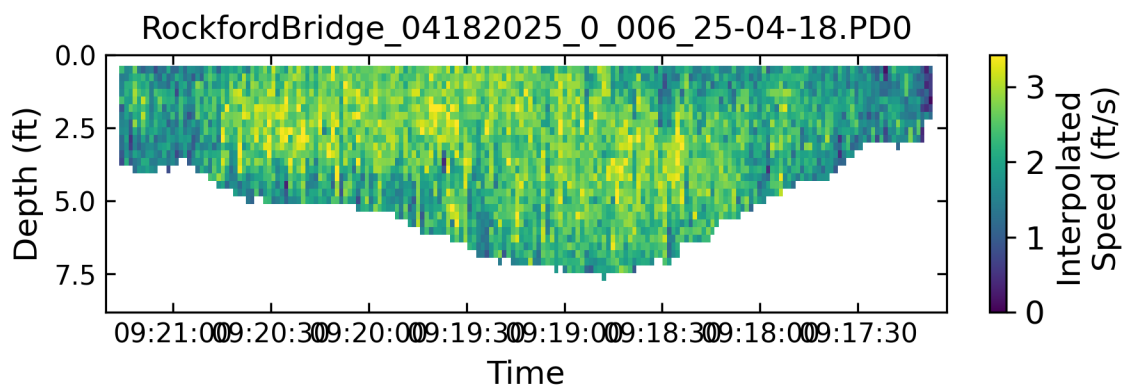
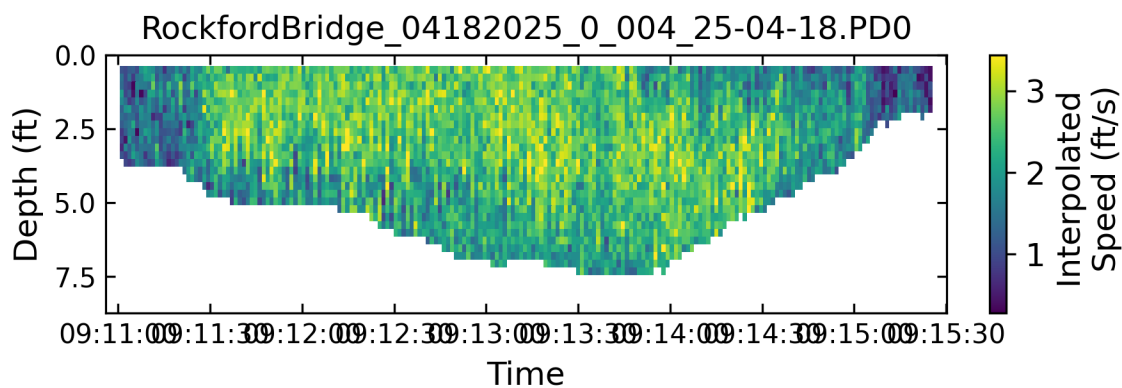
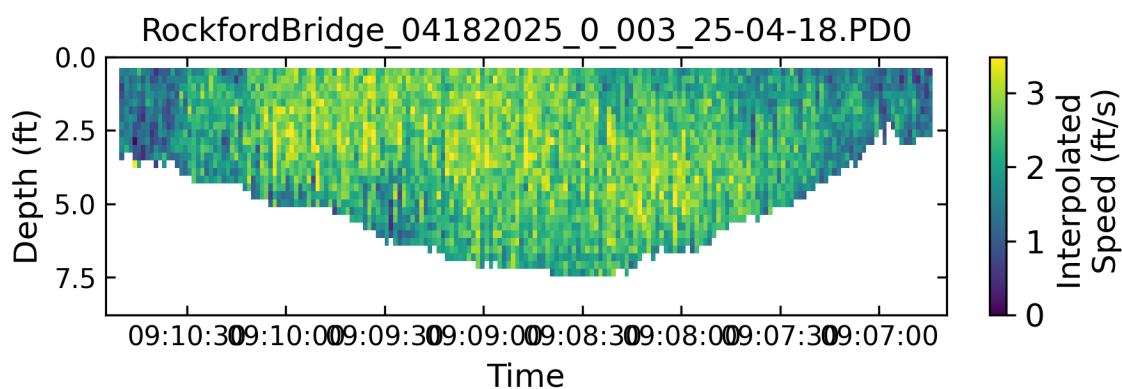
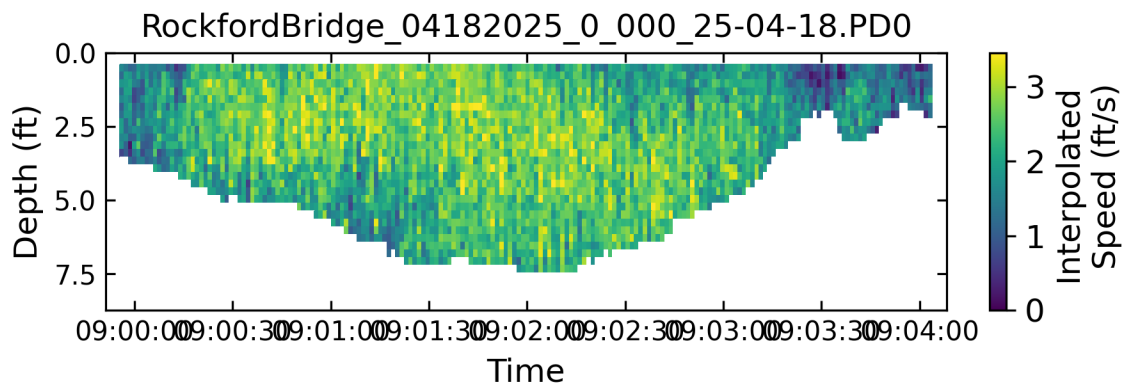
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