



QRev Discharge Measurement Report

1 of 4

Station Name: 07222025_S3Diamond

Station Number:

Measurement Date: 2025.07.22

Measurement Number: 0

Discharge: 80.55

Stage: 0.00

User Rating: Not Rated

Processed: 2025.07.25 08:59:47

Field Crew:		Discharge Summary		Cross Section															
Processed By:	ADCPH	Discharge (ft3/s):	80.55	Mean Velocity (ft/s):	1.279														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.028														
Version:	4.37	Total Duration (s):	865.4	Mean Depth (ft):	2.602														
ADCP		Start Time:	14:16:05	Max. Depth (ft):	3.610														
Manufacturer:	TRDI	End Time:	14:34:40	Width (ft):	24.222														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	1.63														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	63.017														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	1.53														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.136	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	21.961111	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.6 <table><thead><tr><th>Component</th><th>Percent of Total</th></tr></thead><tbody><tr><td>COV</td><td>45</td></tr><tr><td>Extrap.</td><td>28</td></tr><tr><td>Systematic</td><td>21</td></tr><tr><td>Moving-bed</td><td>3</td></tr><tr><td>Edges</td><td>3</td></tr><tr><td>Invalid</td><td>3</td></tr></tbody></table>		Component	Percent of Total	COV	45	Extrap.	28	Systematic	21	Moving-bed	3	Edges	3	Invalid	3
Component	Percent of Total																		
COV	45																		
Extrap.	28																		
Systematic	21																		
Moving-bed	3																		
Edges	3																		
Invalid	3																		
W. Temp. ADCP (C):		Extrap Exponent:	0.5099																
System Test:	Passed	Discharg COV (%):	2.83																
Compass Cal/Eval:	0.29	Top Q (%):	17.97																
Magnetic Variaton:	13.5	Measured Q (%):	65.54																
MovBed Test Type:	Loop	Left Q (%):	2.95																
MovBed Test Quality:	Good	Right Q (%):	0.22																
MovBed Test Dur.(s):	234.9	Bottom Q (%):	13.31																
Max MovBed (%):	0.66	Invalid Cells Q (%):	0.09																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.51																

Automated QA Messages:

WARNINGS

Cautions

- Edges: Excessive boat movement in edge ensembles;
- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Site Info: Station number not entered;
- Edges: User modified left edge distance.
- Edges: User modified right edge distance.

Comments:

- MMT Remarks:



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Comments:

- [Main, 2025-07-25 08:52:15, ADCPH]: There is no station number for this location. Measurement conditions were sunny and hot, mid 80s to low 90s F. ADCP was able to be WT equilibrated in the shade of the bridge, no WT issues between the ADCP and the independent. The right side of the channel transect still causing some significant issues with boat movement. Water on right side is near standing or backflowing under the bridge from the current caused from the bridge supports, leading to unwanted boat movement. This section cannot be avoided without missing a significant part of the transect. No ability to move the transect up or down given that the right edge conditions become worse in those areas. The last transect was redone and edge distance had to be modified, as the system filled in the distance of the opposite edge. The extrapolation was reviewed and the system has chosen the best fit.
- [2025-07-25 08:59:39, ADCPH]: File Saved Q = 80.55 ft3/s (Uncertainty: 6.6%)

ID	File Name
0	07222025_S3Diamond_0_000_25-07-22.PD0
1	07222025_S3Diamond_0_001_25-07-22.PD0
2	07222025_S3Diamond_0_002_25-07-22.PD0
4	07222025_S3Diamond_0_004_25-07-22.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	14:16:05	14:19:24	198.4	14.1	52.19	9.88	2.33	0.48	78.99
1	Right	14:20:52	14:24:47	235.6	13.88	52.9	11.2	2.55	0.83	81.35
2	Left	14:25:02	14:28:46	223.7	14.86	52.32	10.11	2.23	-1.07	78.45
4	Right	14:34:40	14:38:07	207.7	15.07	53.77	11.7	2.39	0.47	83.41
				865.4	14.48	52.8	10.72	2.38	0.18	80.55

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	1.50	10	0.3535	Triangular	2.00	10	0.3535
1	Right	Triangular	1.50	10	0.3535	Triangular	2.00	10	0.3535
2	Left	Triangular	1.50	10	0.3535	Triangular	2.00	10	0.3535
4	Right	Triangular	1.50	10	0.3535	Triangular	2.00	10	0.3535



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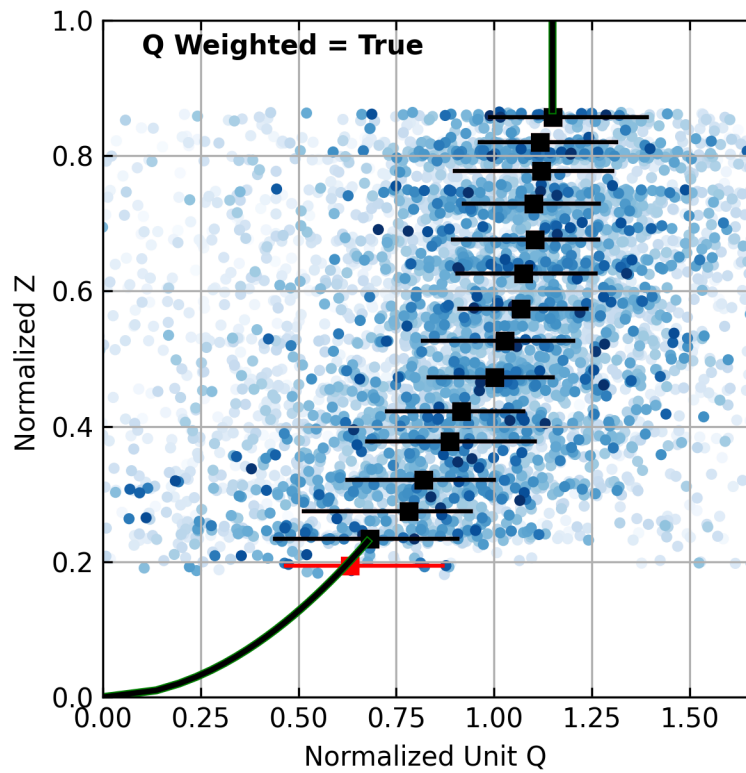
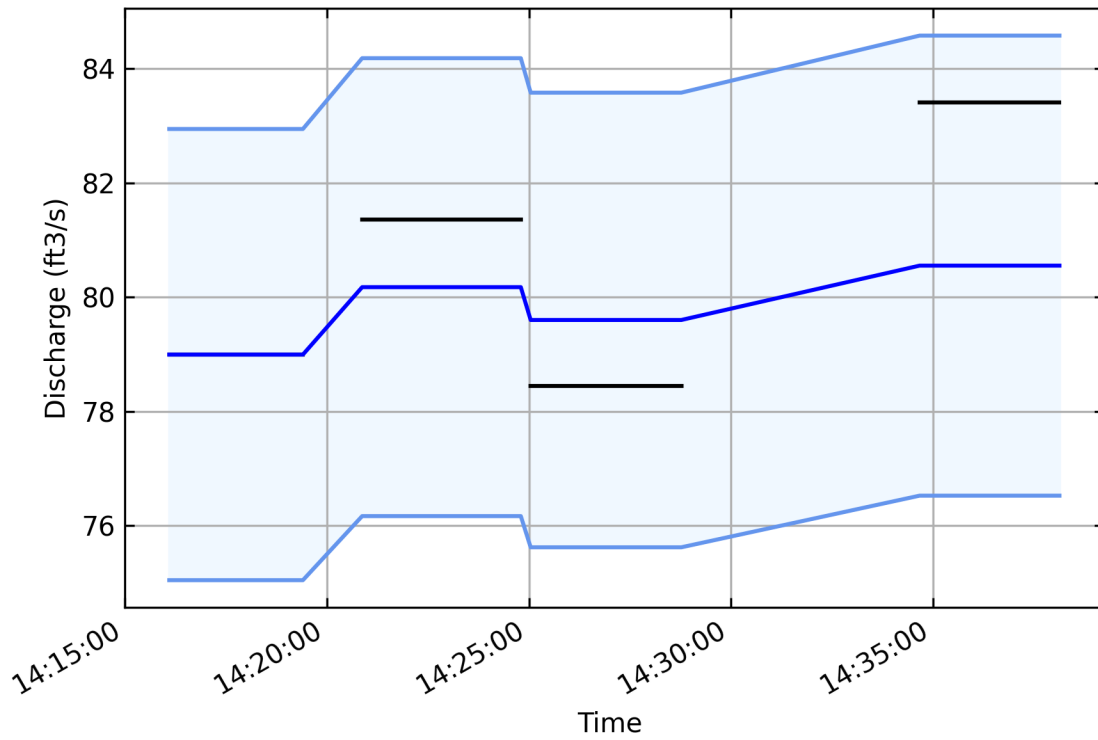
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