



QRev Discharge Measurement Report

1 of 4

Station Name: 06262025_S3Diamond

Station Number:

Measurement Date: 2025.06.26

Measurement Number: 0

Discharge: 98.54

Stage: 0.00

User Rating: Not Rated

Processed: 2025.07.02 06:44:23

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	98.54	Mean Velocity (ft/s):	1.307														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.090														
Version:	4.37	Total Duration (s):	775.9	Mean Depth (ft):	2.535														
ADCP		Start Time:	11:44:46	Max. Depth (ft):	3.628														
Manufacturer:	TRDI	End Time:	11:56:32	Width (ft):	29.744														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.22														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	75.413														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	3.30														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.141	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	17.177778	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.4 <table><thead><tr><th>Component</th><th>Percent of Total</th></tr></thead><tbody><tr><td>COV</td><td>45</td></tr><tr><td>Systematic</td><td>22</td></tr><tr><td>Extrap.</td><td>22</td></tr><tr><td>Edges</td><td>10</td></tr><tr><td>Moving-bed</td><td>5</td></tr><tr><td>Invalid</td><td>2</td></tr></tbody></table>		Component	Percent of Total	COV	45	Systematic	22	Extrap.	22	Edges	10	Moving-bed	5	Invalid	2
Component	Percent of Total																		
COV	45																		
Systematic	22																		
Extrap.	22																		
Edges	10																		
Moving-bed	5																		
Invalid	2																		
W. Temp. ADCP (C):		Extrap Exponent:	0.5402																
System Test:	Passed	Discharg COV (%):	2.70																
Compass Cal/Eval:	0.75	Top Q (%):	14.86																
Magnetic Variaton:	13.5	Measured Q (%):	68.69																
MovBed Test Type:	Loop	Left Q (%):	3.82																
MovBed Test Quality:	Good	Right Q (%):	2.91																
MovBed Test Dur.(s):	242.5	Bottom Q (%):	9.72																
Max MovBed (%):	0.70	Invalid Cells Q (%):	0.03																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.61																

Automated QA Messages:

WARNINGS

Cautions

- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Site Info: Station number not entered;

Comments:

- MMT Remarks:
- [Main, 2025-07-02 06:42:38, sarah]: There is no Station Number for this site. Extrapolation chosen by system is best fit. Extremely slow moving water on right side caused some unwanted excessive boat movement. Positioned boat as close to the right edge as possible without boat being pulled by backflowing water going under bridge. Measurement conditions were sunny and hot (70s/80s F), was able to calibrate WT in the shade of the bridge. No water temperature issues between independent and ADCP.
- [2025-07-02 06:44:18, sarah]: File Saved Q = 98.54 ft³/s (Uncertainty: 6.4%)



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ID	File Name
0	06262025_S3Diamond_0_000_25-06-26.PD0
1	06262025_S3Diamond_0_001_25-06-26.PD0
2	06262025_S3Diamond_0_002_25-06-26.PD0
3	06262025_S3Diamond_0_003_25-06-26.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	11:44:46	11:47:47	180.1	15.03	67.91	9.9	3.67	3.51	100.02
1	Right	11:48:51	11:52:07	196.1	14.7	65.59	9.88	4.48	1.85	96.5
2	Left	11:52:22	11:55:27	185.2	14.11	66.31	8.46	3.44	3.79	96.11
3	Right	11:56:32	12:00:06	214.5	14.74	70.94	10.06	3.49	2.3	101.53
				775.9	14.65	67.69	9.58	3.77	2.86	98.54

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	3.00	10	0.3535	Triangular	5.00	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



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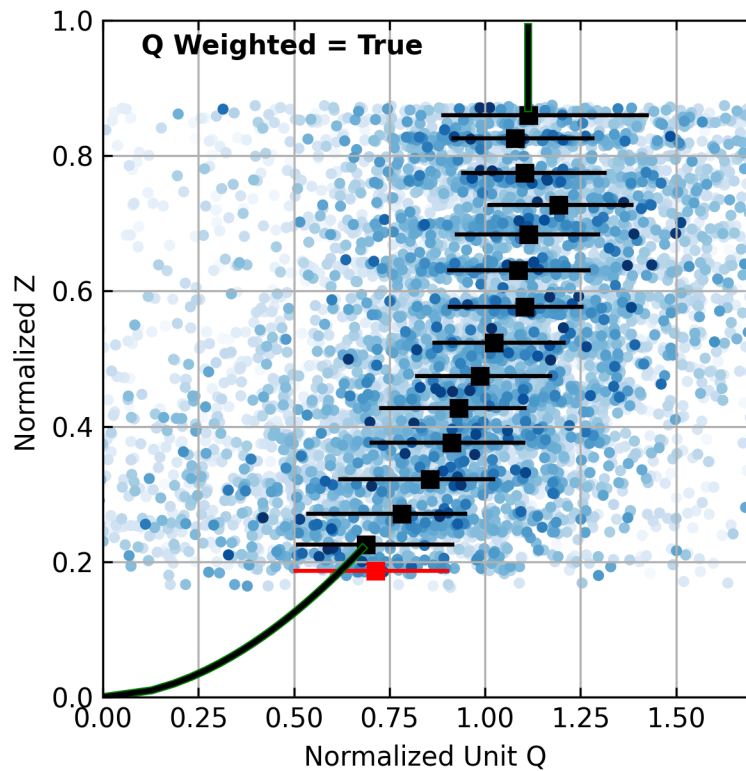
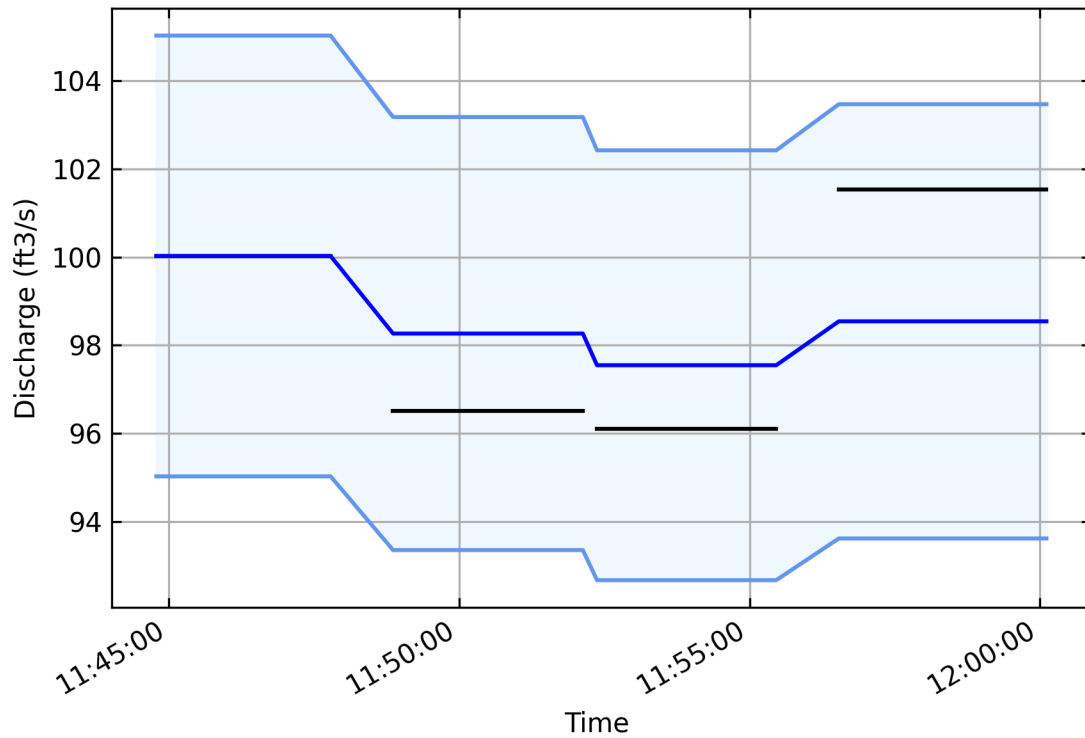
Measurement Number: 0

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