



QRev Discharge Measurement Report

1 of 4

Station Name: 08052025_S3Diamond

Station Number:

Measurement Date: 2025.08.05

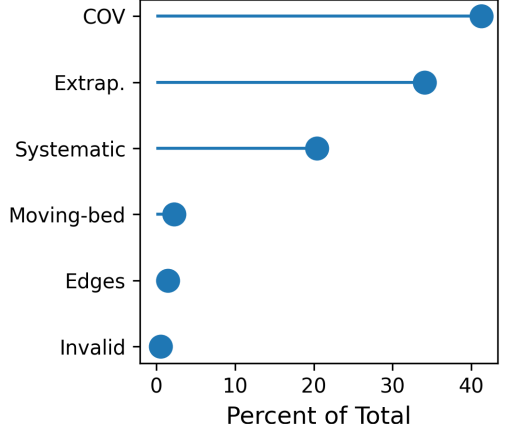
Measurement Number: 0

Discharge: 69.66

Stage: 0.00

User Rating: Not Rated

Processed: 2025.08.07 10:36:15

Field Crew:		Discharge Summary		Cross Section	
Processed By:	ADCPH	Discharge (ft3/s):	69.66	Mean Velocity (ft/s):	1.205
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.196
Version:	4.37	Total Duration (s):	801.3	Mean Depth (ft):	2.386
ADCP		Start Time:	13:02:47	Max. Depth (ft):	3.267
Manufacturer:	TRDI	End Time:	13:18:59	Width (ft):	24.265
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	3.69
Serial Number:	2673	Stage End:	0.00	Area (ft2):	57.896
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	3.59
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.140	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	20.372222	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.6 	
W. Temp. ADCP (C):		Extrap Exponent:	0.5396		
System Test:	Passed	Discharg COV (%):	2.68		
Compass Cal/Eval:	0.48	Top Q (%):	20.46		
Magnetic Variaton:	13.5	Measured Q (%):	65.16		
MovBed Test Type:	Loop	Left Q (%):	2.01		
MovBed Test Quality:	Good	Right Q (%):	-0.69		
MovBed Test Dur.(s):	225.4	Bottom Q (%):	13.06		
Max MovBed (%):	0.78	Invalid Cells Q (%):	0.12		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	2.35		

Automated QA Messages:

WARNINGS

Cautions

- 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, 2025-08-07 10:25:48, ADCPH]: No station number for this site. Right side of channel, about a third of total, still causing significant issues with boat movement due to slow and sometimes backflowing water. There's no way to avoid this section without significantly moving the transect and changing the method of ADCP deployment. This has caused to user to repeat multiple transects, however, the user has been able to achieve transects that are similar after a few tries. During one of the repeat transects, WinRiver switched the edge distances, which has been corrected in Qrev. The extrapolation was reviewed, and the software chosen extrapolation is the best fit. The end points are likely off due to the right side slow water. Measurement conditions were sunny and hot (mid 80s F), with some northerly wind. ADCP took around 30 minutes to equilibrate to an acceptable range with the independent, no WT average needed.
- [2025-08-07 10:36:10, ADCPH]: File Saved Q = 69.66 ft3/s (Uncertainty: 6.6%)

ID	File Name
0	08052025_S3Diamond_0_000_25-08-05.PD0
2	08052025_S3Diamond_0_002_25-08-05.PD0
3	08052025_S3Diamond_0_003_25-08-05.PD0
4	08052025_S3Diamond_0_005_25-08-05.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	13:02:47	13:05:51	183.8	13.71	44.0	8.73	1.39	-0.3	67.54
2	Right	13:07:48	13:11:26	217.8	14.08	45.68	8.55	1.33	-0.44	69.2
3	Left	13:11:35	13:14:51	195.2	14.15	45.12	9.75	1.53	-0.72	69.83
4	Right	13:18:59	13:22:24	204.5	15.08	46.74	9.36	1.36	-0.48	72.05
				801.3	14.25	45.38	9.1	1.4	-0.48	69.66

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	1.00	10	0.3535	Triangular	2.00	10	0.3535
2	Right	Triangular	1.00	10	0.3535	Triangular	2.00	10	0.3535
3	Left	Triangular	1.00	10	0.3535	Triangular	2.00	10	0.3535
4	Right	Triangular	1.00	10	0.3535	Triangular	2.00	10	0.3535



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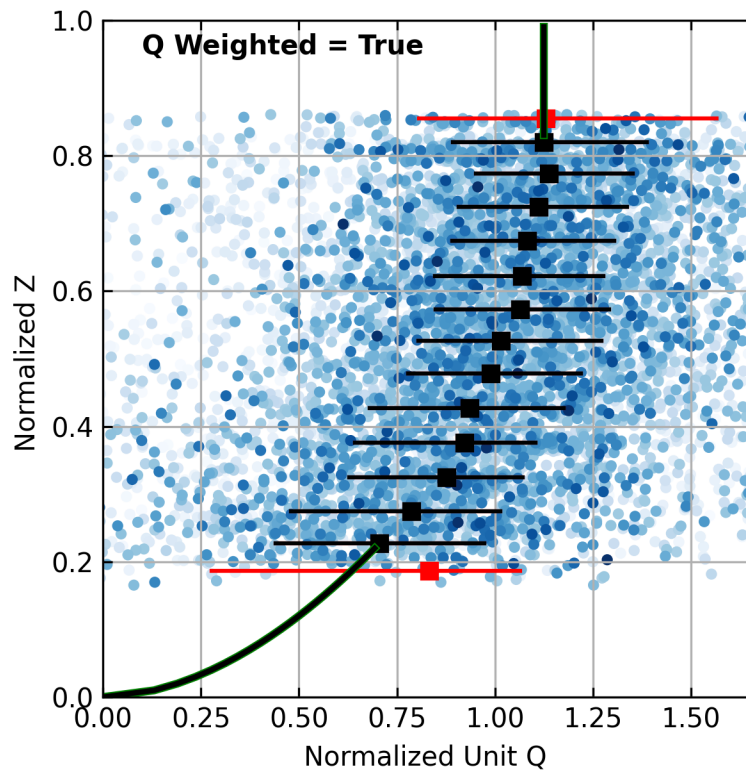
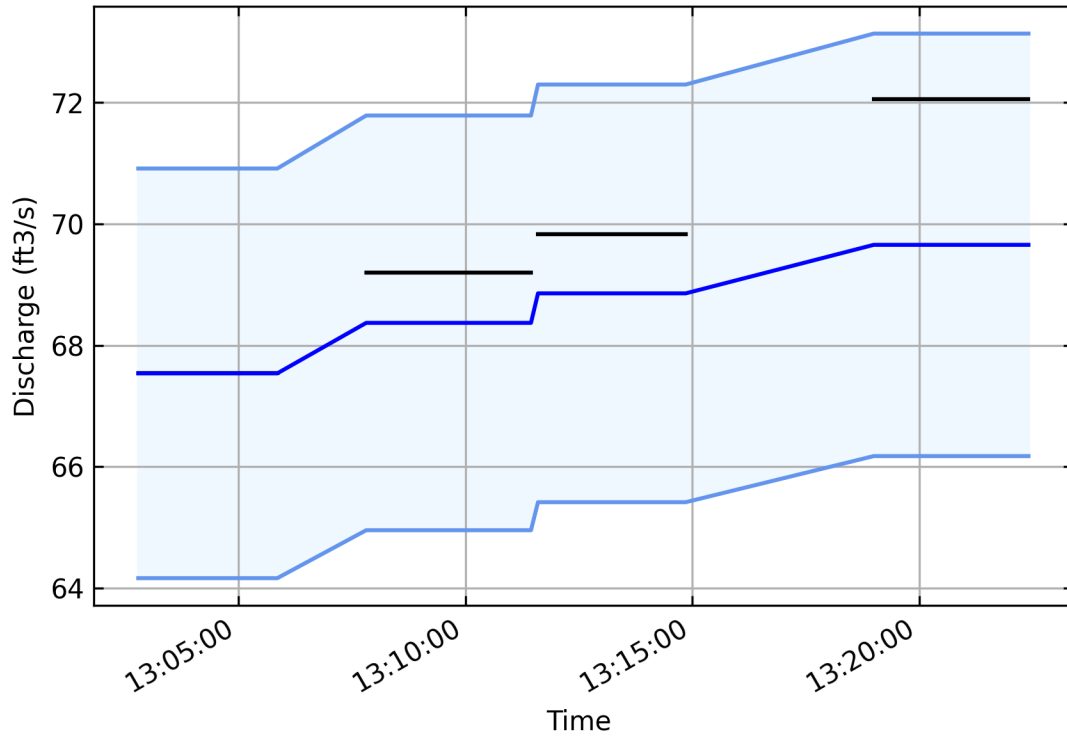
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