

Station Name: 05012025_S3Diamond

Station Number:

Measurement Date: 2025.05.01

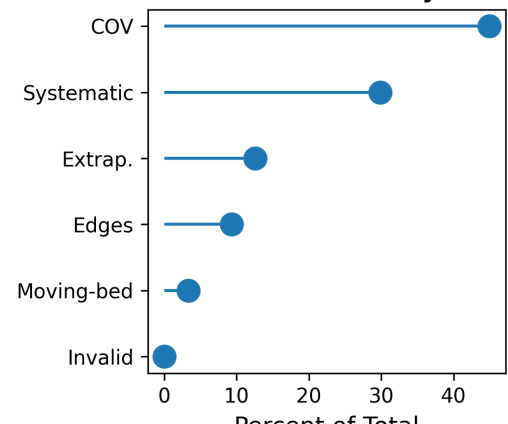
Measurement Number: 0

Discharge: 418.04

Stage: 0.00

User Rating: Not Rated

Processed: 2025.05.04 16:20:30

Field Crew:		Discharge Summary		Cross Section	
Processed By:	ADCPH	Discharge (ft ³ /s):	418.04	Mean Velocity (ft/s):	1.539
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.064
Version:	4.37	Total Duration (s):	922.1	Mean Depth (ft):	6.468
ADCP		Start Time:	14:06:34	Max. Depth (ft):	8.856
Manufacturer:	TRDI	End Time:	14:19:38	Width (ft):	41.999
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	1.43
Serial Number:	2673	Stage End:	0.00	Area (ft ²):	271.630
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	0.54
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.183	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	10.57	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.5 	
W. Temp. ADCP (C):	11.08	Extrap Exponent:	0.3293		
System Test:	Passed	Discharg COV (%):	2.31		
Compass Cal/Eval:	0.38	Top Q (%):	5.21		
Magnetic Variaton:	13.5	Measured Q (%):	77.98		
MovBed Test Type:	Loop	Left Q (%):	2.99		
MovBed Test Quality:	Good	Right Q (%):	2.60		
MovBed Test Dur.(s):	270.7	Bottom Q (%):	11.22		
Max MovBed (%):	0.41	Invalid Cells Q (%):	0.01		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.28		

Automated QA Messages:

WARNINGS

Cautions

- Site Info: Station number not entered;
- Temperature: User modified ADCP temperature.

Comments:

- MMT Remarks:
- [Main, 2025-05-04 16:15:29, ADCPH]: Due to high water and excess vegetation on edges that could not be safely reached, left edge was larger than would be ideal for measurement. Both edges were cleaned, however, on left side about 6 feet from edge multiple BT losses and thus left edge was started at 6 feet from the edge. ADCP was direct sun for entire measurement, and likely elevated the temperature. This caused a >2 degree C difference between the ADCP and the independent. The initial independent temperature measurement (10.57C) and a final temperature measurement (11.55 C) made were averaged and replaced the ADCP temperature reading. There is no site number for this location.
- [2025-05-04 16:20:23, ADCPH]: File Saved Q = 418.04 ft³/s (Uncertainty: 5.5%)



QRev Discharge Measurement Report

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ID	File Name
0	05012025_S3Diamond_0_000_25-05-01.PD0
1	05012025_S3Diamond_0_001_25-05-01.PD0
2	05012025_S3Diamond_0_002_25-05-01.PD0
3	05012025_S3Diamond_0_003_25-05-01.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	14:06:34	14:09:45	191.4	21.41	333.93	49.44	13.98	9.72	428.47
1	Right	14:10:18	14:14:35	257.5	21.38	327.95	47.7	13.25	11.91	422.18
2	Left	14:15:50	14:19:24	213.3	21.51	324.83	44.43	13.31	11.61	415.69
3	Right	14:19:38	14:23:58	259.9	22.77	317.28	46.07	9.49	10.22	405.83
				922.1	21.77	326.0	46.91	12.51	10.86	418.04

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	6.00	10	0.3535	Triangular	6.00	10	0.3535
1	Right	Triangular	6.00	10	0.3535	Triangular	6.00	10	0.3535
2	Left	Triangular	6.00	10	0.3535	Triangular	6.00	10	0.3535
3	Right	Triangular	6.00	10	0.3535	Triangular	6.00	10	0.3535



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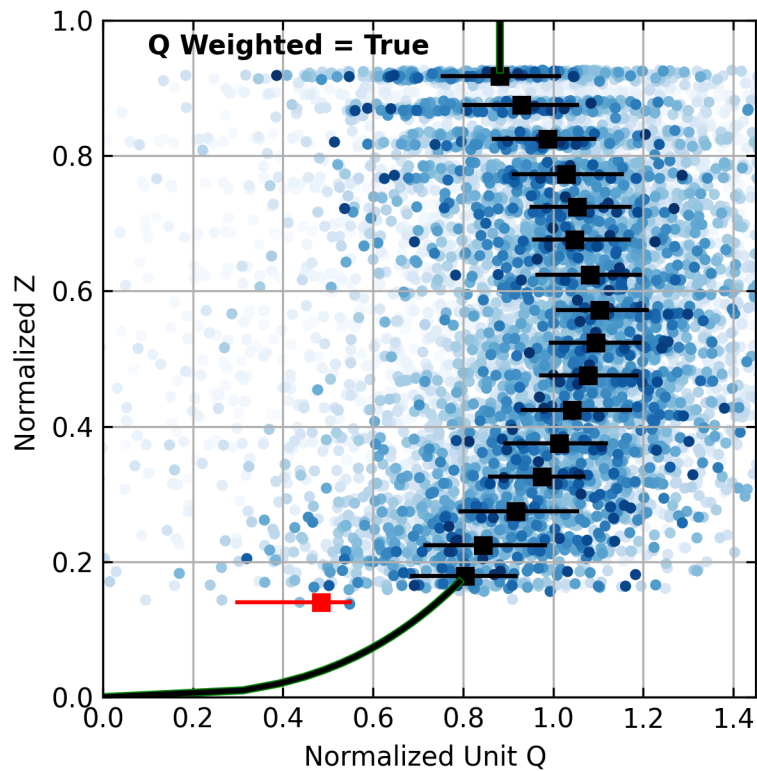
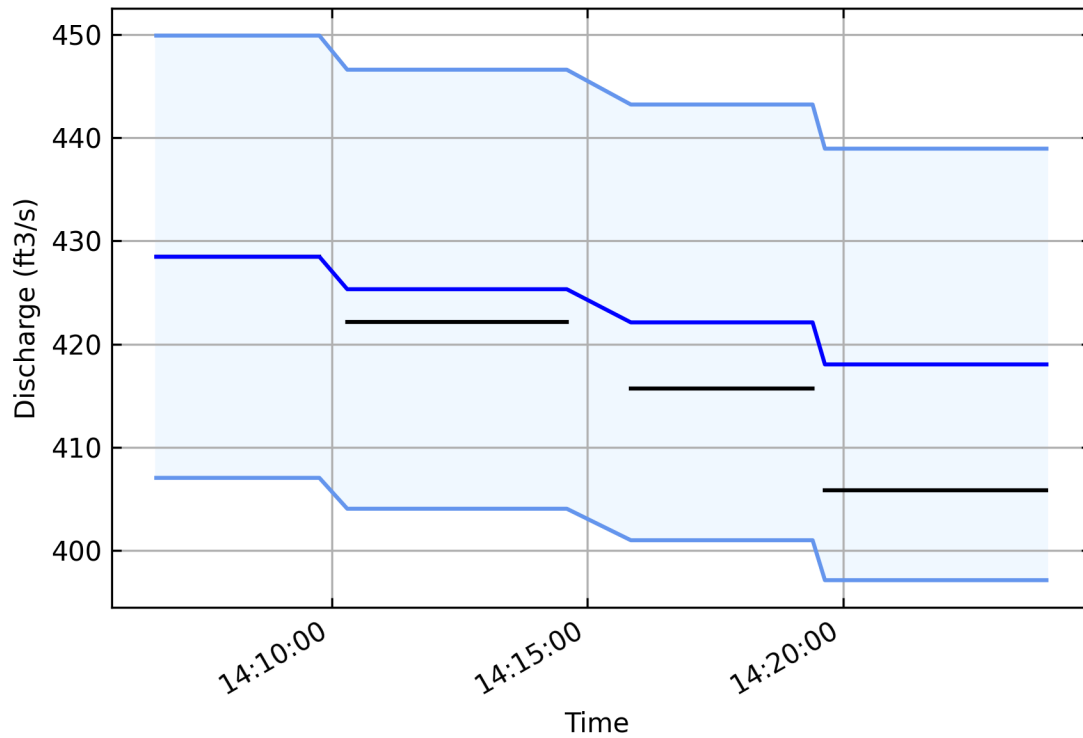
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