



QRev Discharge Measurement Report

1 of 4

Station Name:

Station Number:

Discharge: 478.0

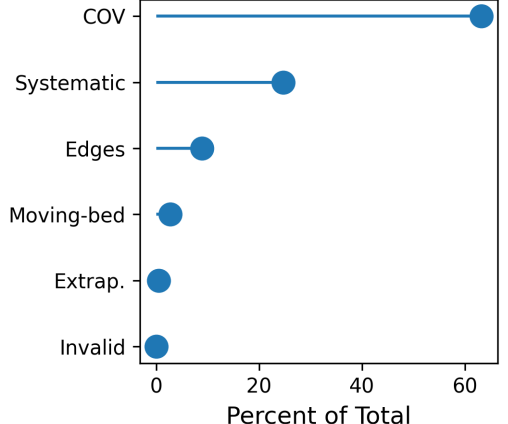
Measurement Date: 2024.05.16

Stage: 0.00

User Rating: Not Rated

Measurement Number: 0

Processed: 2024.06.23 18:15:33

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	478.0	Mean Velocity (ft/s):	2.364
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.891
Version:	4.36	Total Duration (s):	788.4	Mean Depth (ft):	6.636
ADCP		Start Time:	17:09:47	Max. Depth (ft):	9.018
Manufacturer:	TRDI	End Time:	17:19:49	Width (ft):	30.520
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	5.62
Serial Number:	2673	Stage End:	0.00	Area (ft2):	202.508
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	5.27
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.199	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	15.5	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.0 	
W. Temp. ADCP (C):		Extrap Exponent:	0.2035		
System Test:	Passed	Discharg COV (%):	3.02		
Compass Cal/Eval:	0.43	Top Q (%):	3.64		
Magnetic Variaton:	13.5	Measured Q (%):	77.12		
MovBed Test Type:	Loop	Left Q (%):	3.39		
MovBed Test Quality:	Good	Right Q (%):	2.62		
MovBed Test Dur.(s):	171.8	Bottom Q (%):	13.23		
Max MovBed (%):	0.57	Invalid Cells Q (%):	0.03		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.12		

Automated QA Messages:

WARNINGS

- TEMPERATURE: Temperature range is 2.1 degrees C which is greater than 2 degrees;
- TEMPERATURE: The difference between ADCP and reference is > 2: 3.1 C;

Cautions

- Edges: Excessive boat movement in edge ensembles;
- Transects: The number of invalid ensembles at the left edge exceeds 5 percent;
- Transects: The number of invalid ensembles at the right edge exceeds 5 percent;
- Site Info: Station name not entered;
- Site Info: Station number not entered;

Comments:

- MMT Remarks:



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Comments:

- [Main, 2024-06-23 18:13:24, sarah]: Cannot rectify difference between ADCP and reference temperature, measurement taken from bridge mid-channel.
- [Main, 2024-06-23 18:15:01, sarah]: No site or station number.
- [2024-06-23 18:15:27, sarah]: File Saved Q = 478.20 ft³/s (Uncertainty: 6.0%)

ID	File Name
0	0_000_24-05-16.PD0
1	0_001_24-05-16.PD0
2	0_002_24-05-16.PD0
3	0_003_24-05-16.PD0

Transect ID	Start Edge	Start Time	End Time	Duration (sec)	Top Q (ft ³ /s)	Middle Q (ft ³ /s)	Bottom Q (ft ³ /s)	Left Q (ft ³ /s)	Right Q (ft ³ /s)	Total Q (ft ³ /s)
0	Left	17:09:47	17:12:57	189.9	18.3	392.0	67.4	10.6	9.48	498.0
1	Right	17:13:09	17:16:05	175.4	16.8	363.0	63.5	17.0	13.7	474.0
2	Left	17:16:13	17:19:41	207.9	17.3	360.0	59.4	17.9	8.8	464.0
3	Right	17:19:49	17:23:24	215.3	17.3	359.0	62.8	19.3	18.2	477.0
				788.4	17.4	369.0	63.3	16.2	12.5	478.0

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	1.22	10	0.3535	Triangular	1.37	10	0.3535
1	Right	Triangular	1.22	10	0.3535	Triangular	1.37	10	0.3535
2	Left	Triangular	1.22	10	0.3535	Triangular	1.37	10	0.3535
3	Right	Triangular	1.22	10	0.3535	Triangular	1.37	10	0.3535



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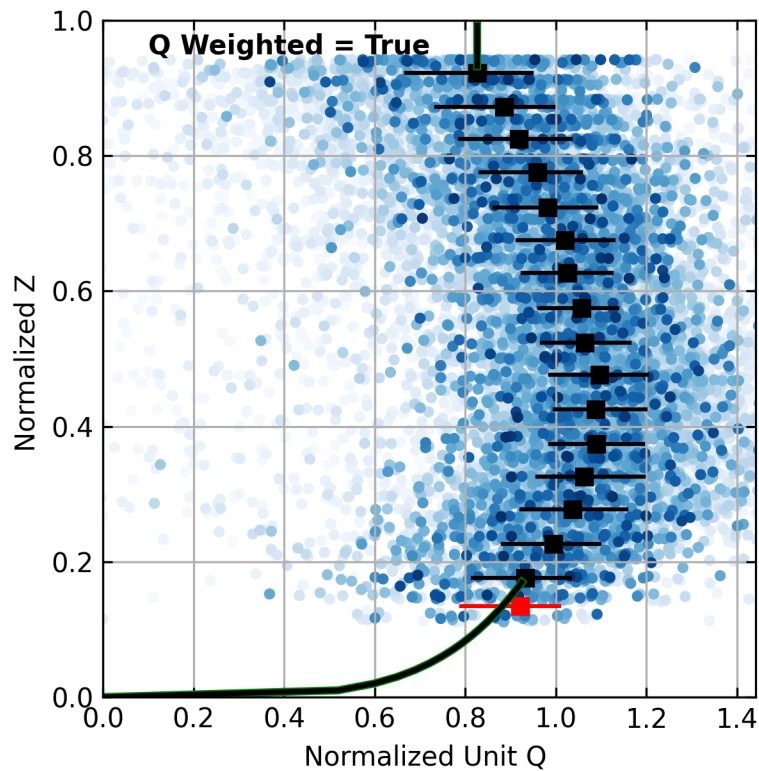
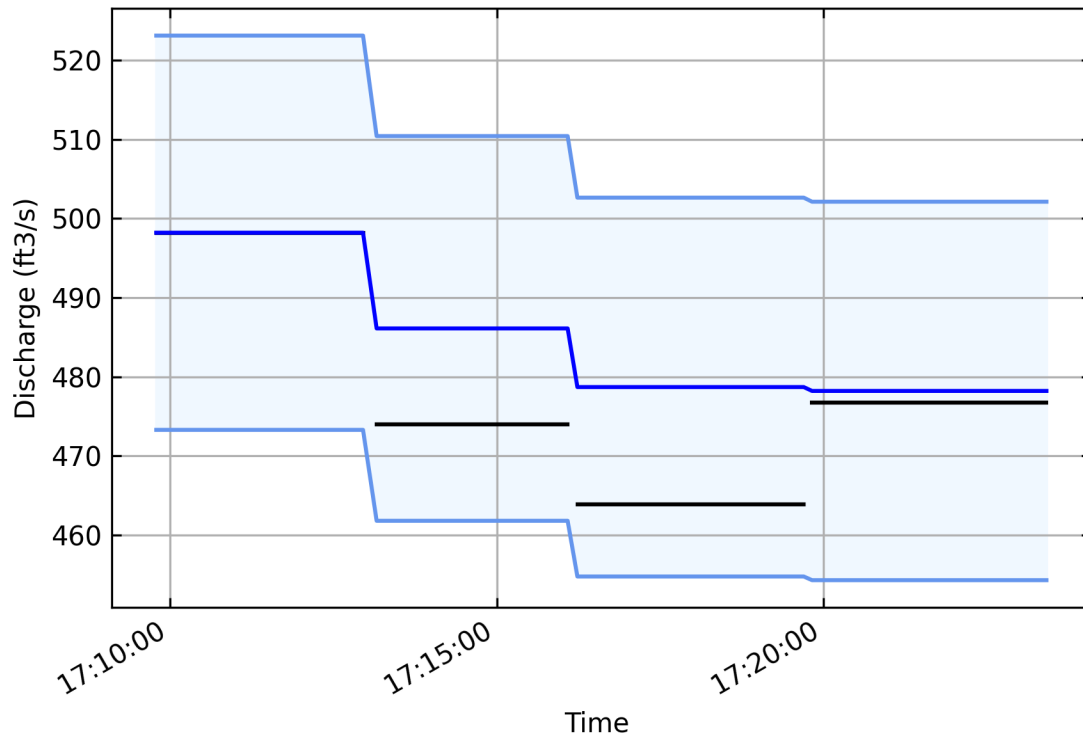
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