



QRev Discharge Measurement Report

1 of 4

Station Name: 03272024_Training_SodhouseBridge

Station Number:

Measurement Date: 2024.03.27

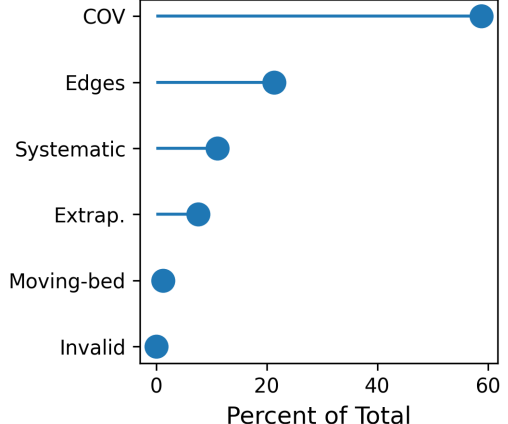
Measurement Number: 0

Discharge: 222.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.03.27 16:41:22

Field Crew:		Discharge Summary		Cross Section	
Processed By:	ADCPH	Discharge (ft3/s):	222.0	Mean Velocity (ft/s):	1.447
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.969
Version:	4.36	Total Duration (s):	1012.5	Mean Depth (ft):	4.754
ADCP		Start Time:	13:06:22	Max. Depth (ft):	6.985
Manufacturer:	TRDI	End Time:	13:21:19	Width (ft):	32.283
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	3.24
Serial Number:	885	Stage End:	0.00	Area (ft2):	153.430
Firmware:	31.16	Mean Stage:	0.00	Area COV (%):	2.35
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.114	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	6.2	Bottom Extrap:	No Slip	95% Total Uncertainty: 9.0 	
W. Temp. ADCP (C):		Extrap Exponent:	0.7074		
System Test:	Passed	Discharg COV (%):	4.35		
Compass Cal/Eval:	0.39	Top Q (%):	8.88		
Magnetic Variaton:	13.5	Measured Q (%):	71.43		
MovBed Test Type:	Loop	Left Q (%):	5.47		
MovBed Test Quality:	Good	Right Q (%):	8.42		
MovBed Test Dur.(s):	315.9	Bottom Q (%):	5.80		
Max MovBed (%):	0.32	Invalid Cells Q (%):	0.05		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	-0.23		

Automated QA Messages:

WARNINGS

- Edges: Edge Q is greater than 5%;

Cautions

- Edges: Excessive boat movement in edge ensembles;
- Edges: The percent of invalid ensembles exceeds 25% in one or more transects.
- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Site Info: Station number not entered;
- Edges: User modified left edge type.
- Edges: User modified left user discharge.
- Edges: User modified right edge type.
- Edges: User modified right user discharge.



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Automated QA Messages:

- Extrapolation: User modified default automatic setting.

Comments:

- MMT Remarks:
- [Main, 2024-03-27 16:31:10, ADCPH]: Adjusted the edge from rectangular to triangular, from looking at the cross section profile. The surface velocity did not appear to be 20%
- [Main, 2024-03-27 16:33:06, ADCPH]: No station number for site
- [2024-03-27 16:33:45, ADCPH]: File Saved Q = 222.05 ft3/s (Uncertainty: 9.0%)
- [2024-03-27 16:41:15, ADCPH]: File Saved Q = 222.05 ft3/s (Uncertainty: 9.0%)

ID	File Name
0	0_000_24-03-27.PD0
1	0_001_24-03-27.PD0
2	0_002_24-03-27.PD0
4	0_004_24-03-27.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	13:06:22	13:10:53	271.3	19.8	161.0	12.6	10.9	19.1	223.0
1	Right	13:11:10	13:15:01	231.8	20.8	164.0	15.3	10.4	18.6	230.0
2	Left	13:15:18	13:19:24	246.7	20.7	164.0	13.1	12.2	17.6	227.0
4	Right	13:21:19	13:25:42	262.6	17.6	145.0	10.4	15.1	19.4	208.0
				1012.5	19.7	159.0	12.9	12.2	18.7	222.0

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	1.83	10	0.3535	Triangular	1.83	10	0.3535
1	Right	Triangular	1.83	10	0.3535	Triangular	1.83	10	0.3535
2	Left	Triangular	1.83	10	0.3535	Triangular	1.83	10	0.3535
4	Right	Triangular	1.83	10	0.3535	Triangular	1.83	10	0.3535



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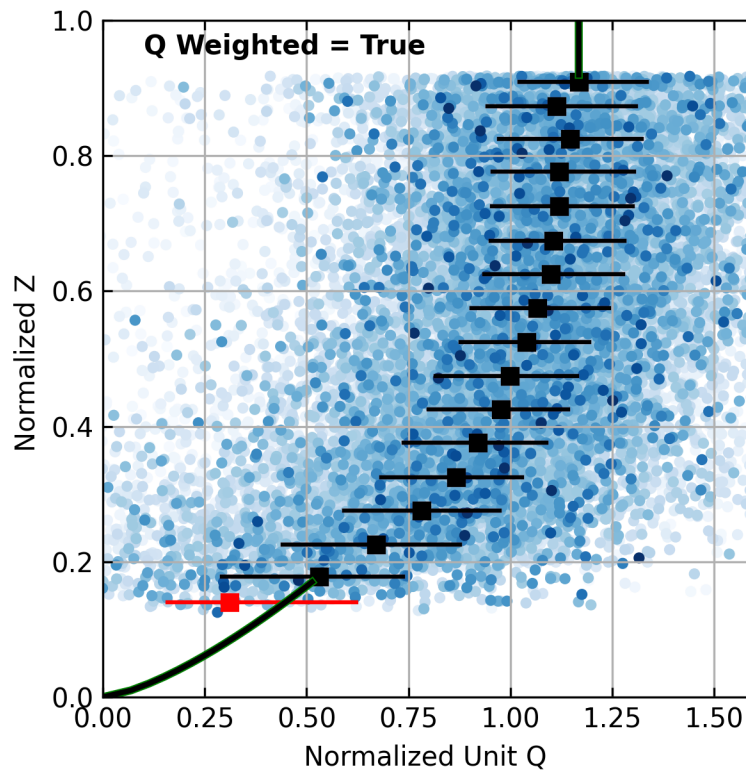
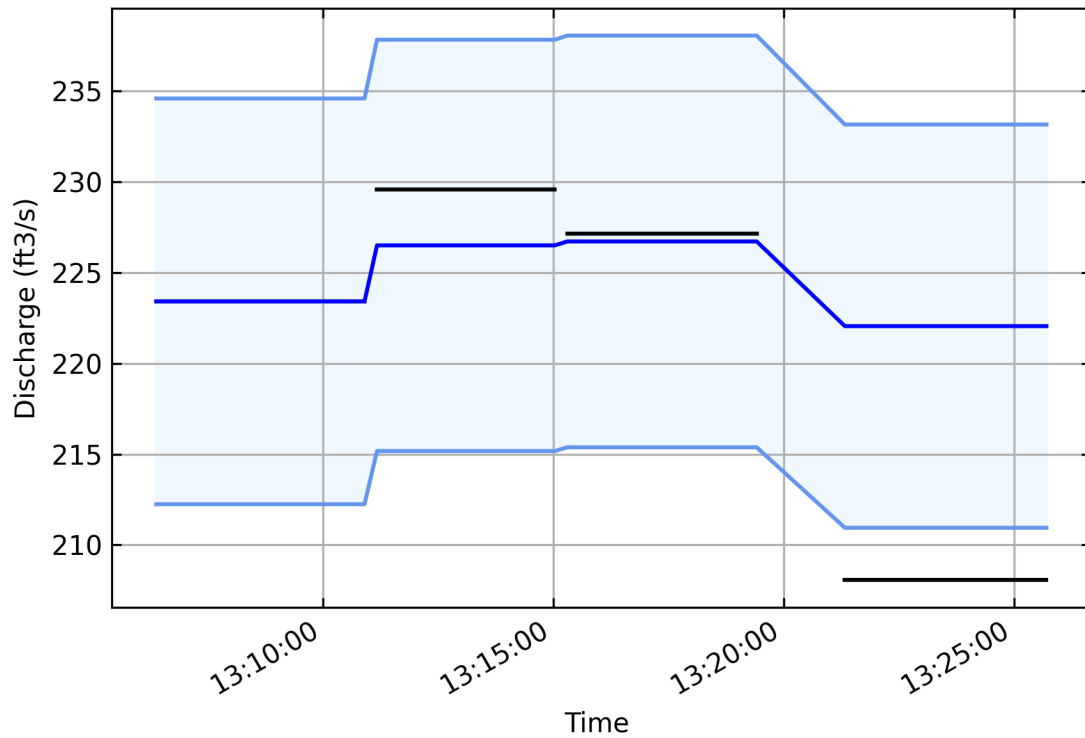
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