



QRev Discharge Measurement Report

1 of 4

Station Name: 04182024_Sodhouse

Station Number:

Measurement Date: 2024.04.18

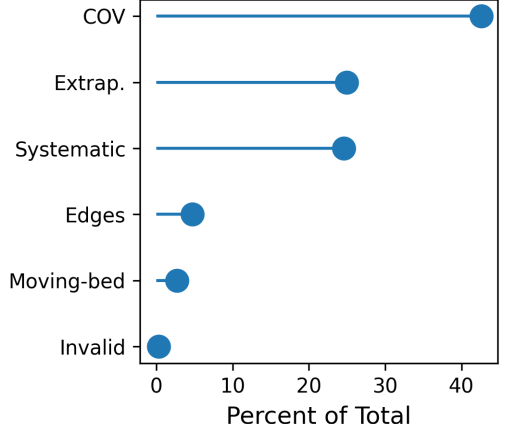
Measurement Number: 0

Discharge: 216.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.05.04 16:18:15

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	216.0	Mean Velocity (ft/s):	1.523
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.659
Version:	4.36	Total Duration (s):	1029.7	Mean Depth (ft):	4.906
ADCP		Start Time:	17:03:55	Max. Depth (ft):	6.592
Manufacturer:	TRDI	End Time:	17:18:37	Width (ft):	28.938
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	4.93
Serial Number:	2404	Stage End:	0.00	Area (ft2):	141.749
Firmware:	31.17	Mean Stage:	0.00	Area COV (%):	1.83
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.230	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	9.84	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.0 	
W. Temp. ADCP (C):		Extrap Exponent:	0.5740		
System Test:	Passed	Discharg COV (%):	2.48		
Compass Cal/Eval:	1.05	Top Q (%):	11.05		
Magnetic Variaton:	13.5	Measured Q (%):	75.51		
MovBed Test Type:	Loop	Left Q (%):	1.29		
MovBed Test Quality:	Good	Right Q (%):	3.11		
MovBed Test Dur.(s):	227.8	Bottom Q (%):	9.04		
Max MovBed (%):	1.05	Invalid Cells Q (%):	0.02		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.73		

Automated QA Messages:

WARNINGS

Cautions

- Compass: Evaluation result > 1 deg;
- 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;
- Moving-Bed Test: Loop test used but compass calibration is caution
- 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;
- Transects: ['0_001_24-04-18', '0_002_24-04-18', '0_003_24-04-18', '0_004_24-04-18'] have battery voltage less than 10.5
- Site Info: Station number not entered;



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User Rating: Not Rated

Processed: 2024.05.04 16:18:16

Comments:

- MMT Remarks:
- [Main, 2024-05-04 16:14:02, sarah]: Compass calibration metric used <2 degrees. Excessive movement and invalid ensembles due to small loaner ADCP boat.
- [Main, 2024-05-04 16:16:07, sarah]: No station number for this site.
- [2024-05-04 16:18:11, sarah]: File Saved Q = 215.86 ft3/s (Uncertainty: 6.0%)

ID	File Name
1	0_001_24-04-18.PD0
2	0_002_24-04-18.PD0
3	0_003_24-04-18.PD0
4	0_004_24-04-18.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)			
1	Left	17:03:55	17:08:22	267.0	24.8	164.0	20.2	1.35	7.47	217.0
2	Right	17:08:44	17:13:06	262.0	24.2	164.0	19.9	1.57	6.94	217.0
3	Left	17:13:45	17:18:25	279.1	21.7	157.0	17.5	6.19	6.15	208.0
4	Right	17:18:37	17:22:18	221.6	24.8	167.0	20.5	2.05	6.28	221.0
				1029.7	23.9	163.0	19.5	2.79	6.71	216.0

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.
1	Left	Triangular	0.61	10	0.3535	Triangular	0.91	10	0.3535
2	Right	Triangular	0.61	10	0.3535	Triangular	0.91	10	0.3535
3	Left	Triangular	0.61	10	0.3535	Triangular	0.91	10	0.3535
4	Right	Triangular	0.61	10	0.3535	Triangular	0.91	10	0.3535



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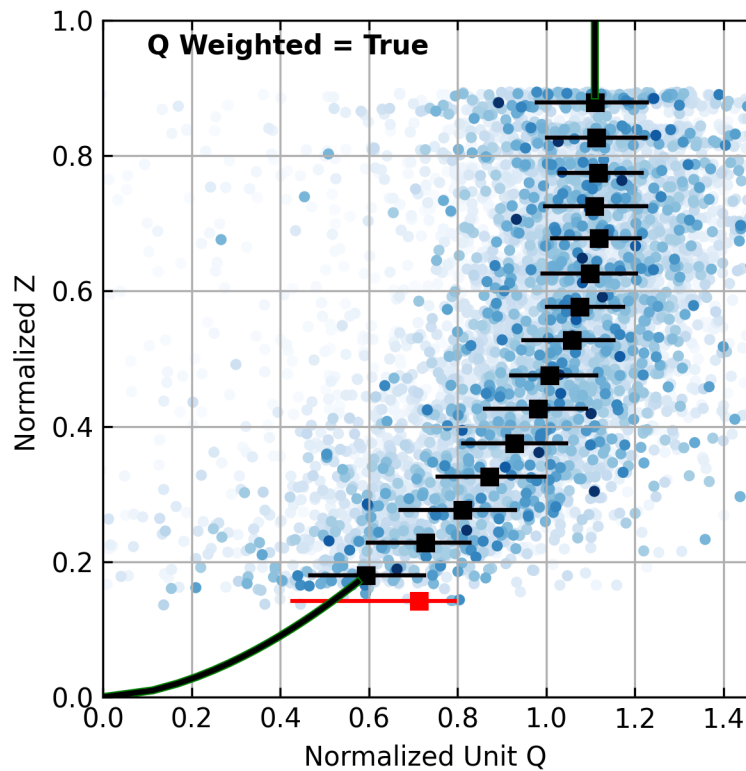
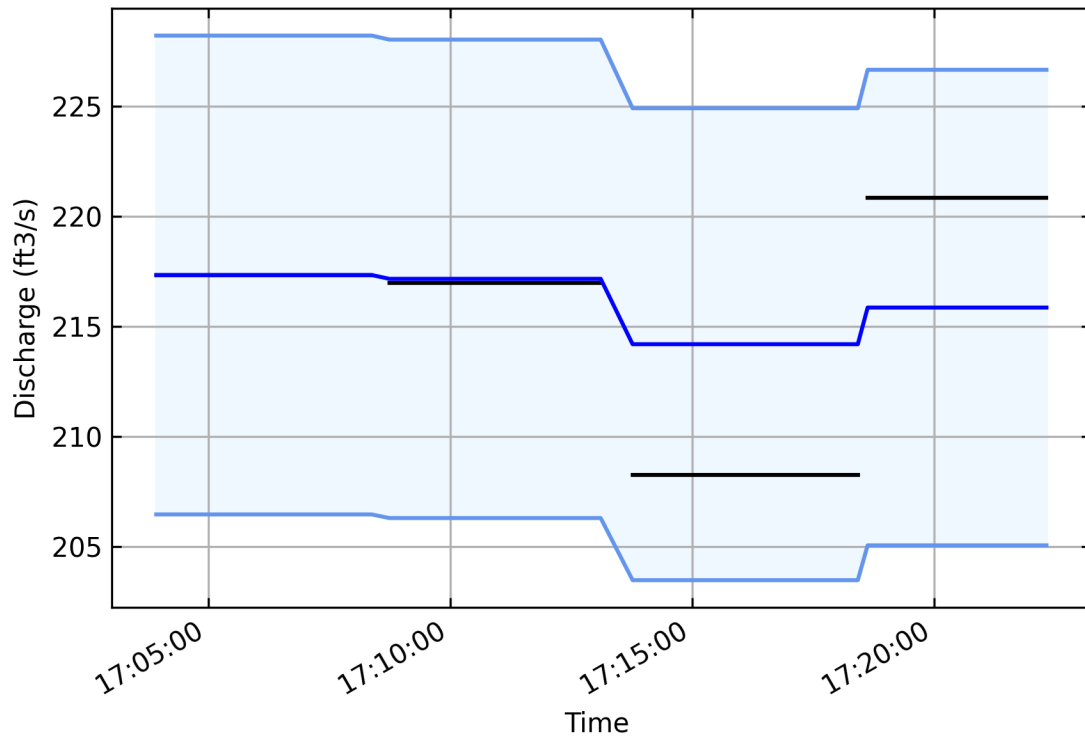
Measurement Number: 0

Discharge: 216.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.05.04 16:18:16





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