



QRev Discharge Measurement Report

1 of 4

Station Name: 05312024_Sodhouse

Station Number:

Measurement Date: 2024.05.31

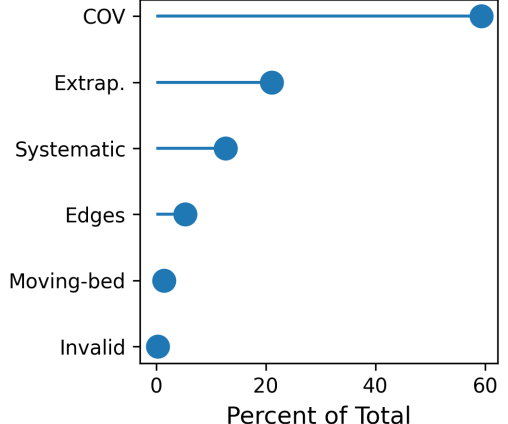
Measurement Number: 0

Discharge: 297.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 10:56:32

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	297.0	Mean Velocity (ft/s):	1.685
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.330
Version:	4.36	Total Duration (s):	933.5	Mean Depth (ft):	5.828
ADCP		Start Time:	15:48:06	Max. Depth (ft):	7.694
Manufacturer:	TRDI	End Time:	16:00:50	Width (ft):	30.223
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	4.20
Serial Number:	2673	Stage End:	0.00	Area (ft2):	176.151
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	4.17
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.146	Uncertainty	
Premeasurement		Top Extrap:	3-Point	Uncertainty Method: QRev	
W. Temp. (C):	15.327778	Bottom Extrap:	No Slip	95% Total Uncertainty: 8.4 	
W. Temp. ADCP (C):		Extrap Exponent:	0.9626		
System Test:	Passed	Discharg COV (%):	4.09		
Compass Cal/Eval:	0.92	Top Q (%):	6.44		
Magnetic Variaton:	13.5	Measured Q (%):	81.68		
MovBed Test Type:	Loop	Left Q (%):	1.86		
MovBed Test Quality:	Warnings	Right Q (%):	4.58		
MovBed Test Dur.(s):	296.6	Bottom Q (%):	5.44		
Max MovBed (%):	0.11	Invalid Cells Q (%):	0.05		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	2.17		

Automated QA Messages:

WARNINGS

- Edges: One or more transects have an edge edge Q greater than 5%;
- TEMPERATURE: The difference between ADCP and reference is > 2: 2.3 C;

Cautions

- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Moving-Bed Test: The moving-bed test(s) has warnings, please review tests to determine validity;
- Temperature: Temperature range is 1.1 degrees C which is greater than 1 degree;
- 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_000_24-05-31', '0_001_24-05-31', '0_002_24-05-31', '0_003_24-05-31'] have battery voltage less than 10.5
- Site Info: Station number not entered;



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Automated QA Messages:

- Extrapolation: User modified default automatic setting.

Comments:

- MMT Remarks:
- [Temp/Sal, 2024-07-14 10:54:12, sarah]: ADCP allowed to equilibrate with reference sonde (Independent) in river for 10 minutes, cannot rectify difference.
- [2024-07-14 10:56:28, sarah]: File Saved Q = 296.84 ft3/s (Uncertainty: 8.4%)

ID	File Name
0	0_000_24-05-31.PD0
1	0_001_24-05-31.PD0
2	0_002_24-05-31.PD0
3	0_003_24-05-31.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	15:48:06	15:52:17	250.5	19.5	237.0	15.5	4.64	13.6	290.0
1	Right	15:52:31	15:56:46	255.8	18.4	231.0	13.8	5.87	14.9	284.0
2	Left	15:56:54	16:00:42	227.8	18.6	245.0	17.9	6.66	13.8	302.0
3	Right	16:00:50	16:04:09	199.4	19.9	257.0	17.4	4.87	12.1	311.0
				933.5	19.1	242.0	16.1	5.51	13.6	297.0

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	0.76	10	0.3535	Triangular	1.22	10	0.3535
1	Right	Triangular	0.76	10	0.3535	Triangular	1.22	10	0.3535
2	Left	Triangular	0.76	10	0.3535	Triangular	1.22	10	0.3535
3	Right	Triangular	0.76	10	0.3535	Triangular	1.22	10	0.3535



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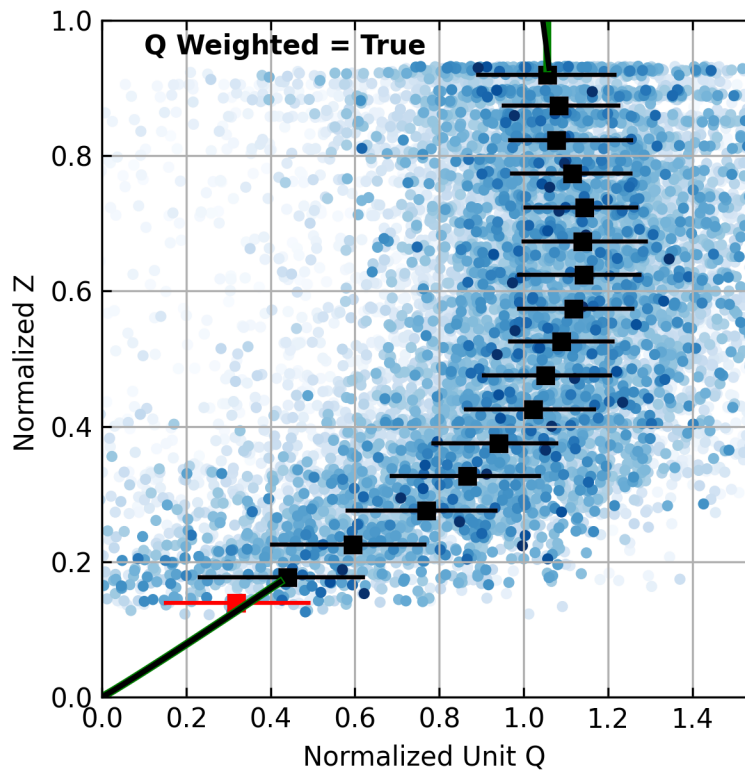
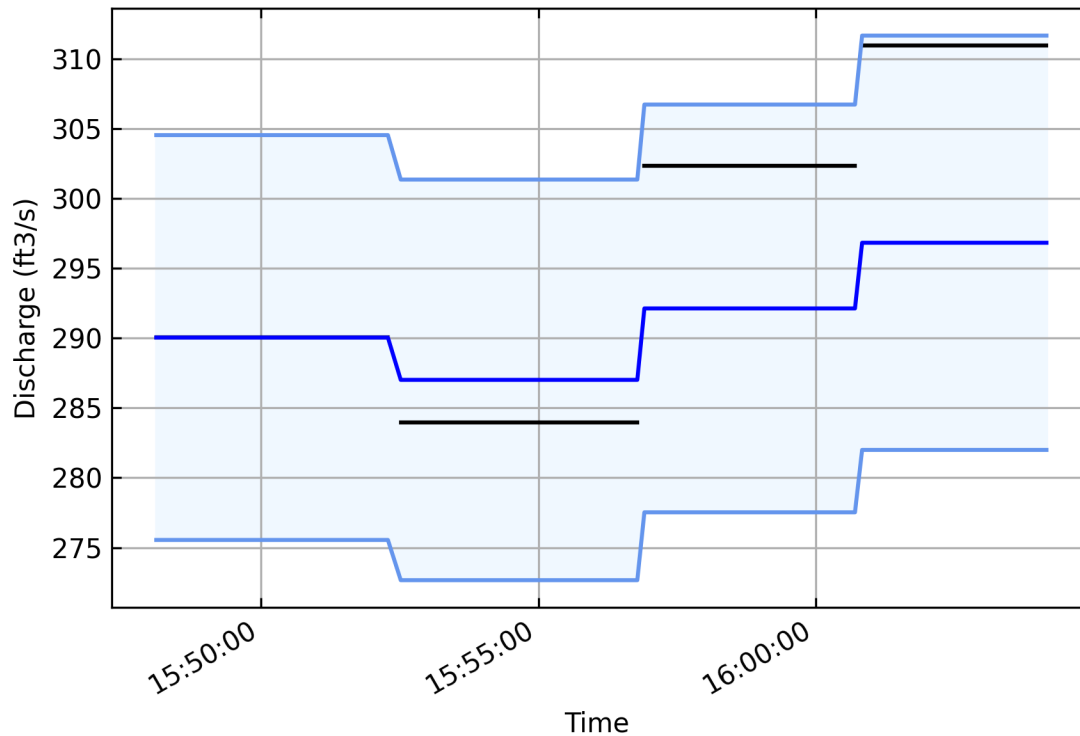
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