



QRev Discharge Measurement Report

1 of 4

Station Name: 07172024_Sodhouse

Station Number:

Measurement Date: 2024.07.17

Measurement Number: 0

Discharge: 61.65

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.26 10:35:50

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	61.65	Mean Velocity (ft/s):	0.649														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.223														
Version:	4.37	Total Duration (s):	1036.6	Mean Depth (ft):	3.636														
ADCP		Start Time:	11:41:37	Max. Depth (ft):	4.907														
Manufacturer:	TRDI	End Time:	11:58:02	Width (ft):	26.150														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	1.46														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	95.089														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	1.91														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.113	Uncertainty															
Premeasurement		Top Extrap:	3-Point	Uncertainty Method: QRev															
W. Temp. (C):	21.877778	Bottom Extrap:	No Slip	95% Total Uncertainty: 8.6 <table><caption>Uncertainty Components</caption><tr><th>Component</th><th>Value (%)</th></tr><tr><td>COV</td><td>8.6</td></tr><tr><td>Systematic</td><td>~15</td></tr><tr><td>Extrap.</td><td>~10</td></tr><tr><td>Edges</td><td>~5</td></tr><tr><td>Invalid</td><td>~5</td></tr><tr><td>Moving-bed</td><td>~5</td></tr></table>		Component	Value (%)	COV	8.6	Systematic	~15	Extrap.	~10	Edges	~5	Invalid	~5	Moving-bed	~5
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Systematic	~15																		
Extrap.	~10																		
Edges	~5																		
Invalid	~5																		
Moving-bed	~5																		
W. Temp. ADCP (C):		Extrap Exponent:	0.1667																
System Test:	Passed	Discharg COV (%):	4.69																
Compass Cal/Eval:	0.62	Top Q (%):	12.36																
Magnetic Variaton:	13.5	Measured Q (%):	74.41																
MovBed Test Type:	Loop	Left Q (%):	2.01																
MovBed Test Quality:	Warnings	Right Q (%):	2.07																
MovBed Test Dur.(s):	381.8	Bottom Q (%):	9.14																
Max MovBed (%):	0.32	Invalid Cells Q (%):	0.32																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	4.75																

Automated QA Messages:

WARNINGS

- TEMPERATURE: The difference between ADCP and reference is > 2: 2.4 C;

Cautions

- bt-Int. Q for invalid ensembles in a transect exceeds 10.0%;
- 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;
- Site Info: Station number not entered;
- Extrapolation: User modified default automatic setting.

Comments:

- MMT Remarks:
- [Extrap, 2024-07-26 10:31:56, sarah]: Original extrapolation chosen best fit.



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Comments:

- [MovBedTst, 2024-07-26 10:33:58, sarah]: Seeking help to assess temperature disparity and moving bed test issues, will reprocess.
- [2024-07-26 10:35:46, sarah]: File Saved Q = 61.65 ft³/s (Uncertainty: 8.6%)

ID	File Name
0	07172024_Sodhouse_0_000_24-07-17.PD0
1	07172024_Sodhouse_0_001_24-07-17.PD0
2	07172024_Sodhouse_0_002_24-07-17.PD0
4	07172024_Sodhouse_0_004_24-07-17.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)			
0	Left	11:41:37	11:46:04	267.3	6.58	44.15	4.73	1.27	1.24	57.98
1	Right	11:46:17	11:50:26	248.7	8.46	47.25	5.08	1.24	1.6	63.65
2	Left	11:50:45	11:55:07	262.1	6.82	45.02	6.83	1.32	0.74	60.73
4	Right	11:58:02	12:02:21	258.6	8.62	47.08	5.9	1.13	1.52	64.25
				1036.6	7.62	45.88	5.64	1.24	1.28	61.65

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	2.50	10	0.3535	Triangular	3.00	10	0.3535
1	Right	Triangular	2.50	10	0.3535	Triangular	3.00	10	0.3535
2	Left	Triangular	2.50	10	0.3535	Triangular	3.00	10	0.3535
4	Right	Triangular	3.00	10	0.3535	Triangular	2.50	10	0.3535



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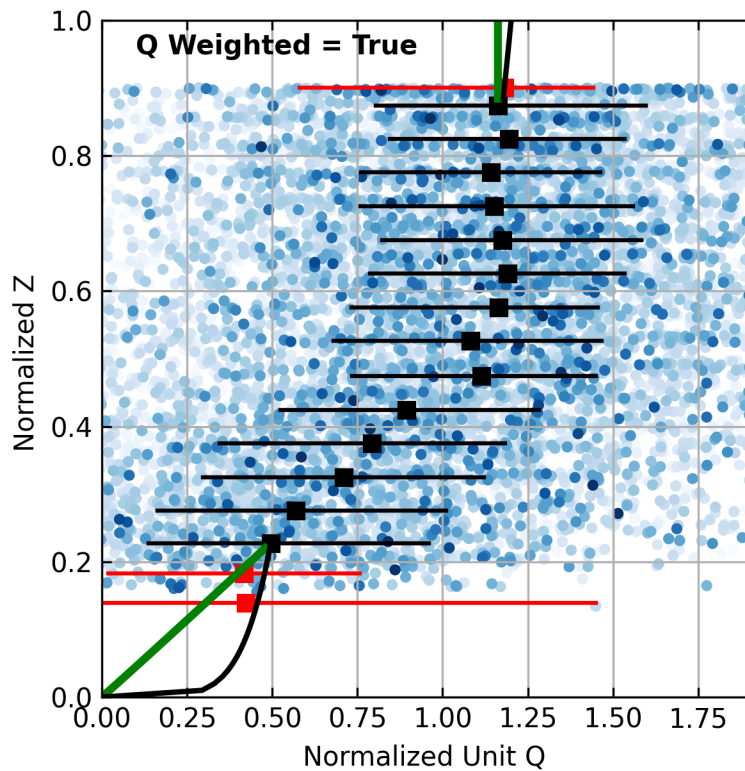
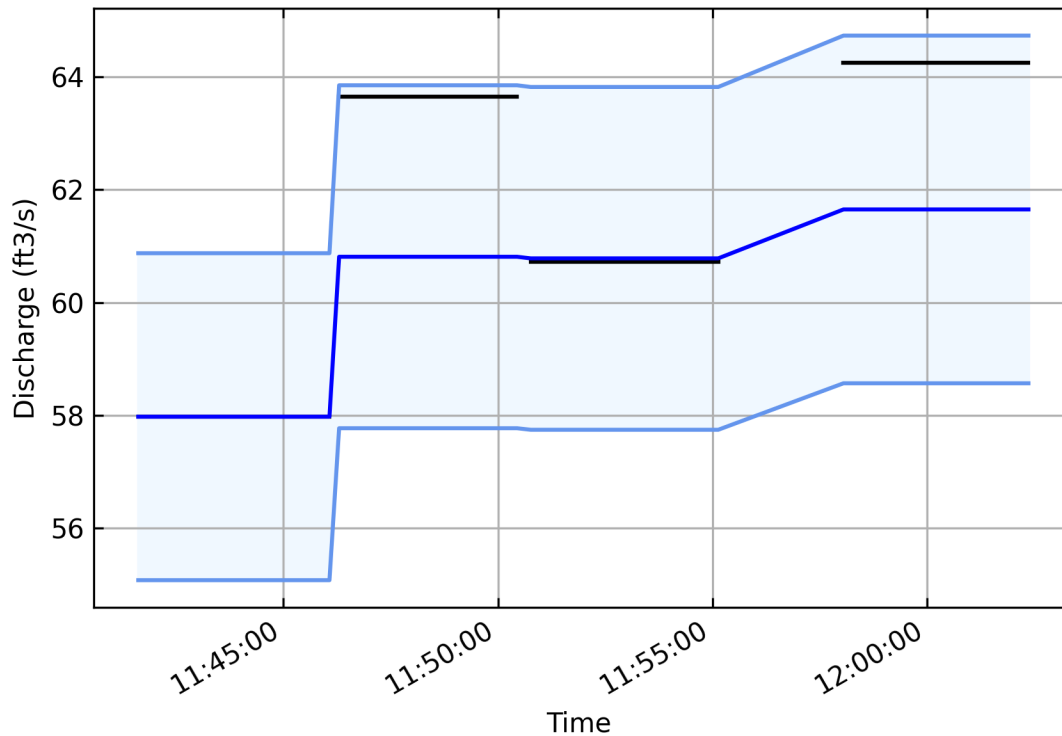
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