



QRev Discharge Measurement Report

1 of 4

Station Name: 05162024_PageSprings

Station Number: None

Measurement Date: 2024.05.16

Measurement Number: 0

Discharge: 428.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 09:41:56

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	428.0	Mean Velocity (ft/s):	3.318														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	5.632														
Version:	4.36	Total Duration (s):	1529.1	Mean Depth (ft):	2.467														
ADCP		Start Time:	11:29:25	Max. Depth (ft):	3.243														
Manufacturer:	TRDI	End Time:	11:59:33	Width (ft):	52.286														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.25														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	129.030														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	3.15														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.247	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	8.077778	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.0 <table><tr><th>Component</th><th>Value</th></tr><tr><td>COV</td><td>6.0</td></tr><tr><td>Systematic</td><td>2.25</td></tr><tr><td>Extrap.</td><td>0.25</td></tr><tr><td>Moving-bed</td><td>0.25</td></tr><tr><td>Edges</td><td>0.25</td></tr><tr><td>Invalid</td><td>0.25</td></tr></table>		Component	Value	COV	6.0	Systematic	2.25	Extrap.	0.25	Moving-bed	0.25	Edges	0.25	Invalid	0.25
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COV	6.0																		
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Extrap.	0.25																		
Moving-bed	0.25																		
Edges	0.25																		
Invalid	0.25																		
W. Temp. ADCP (C):		Extrap Exponent:	0.3265																
System Test:	Passed	Discharg COV (%):	3.01																
Compass Cal/Eval:	0.23	Top Q (%):	15.97																
Magnetic Variaton:	13.5	Measured Q (%):	69.88																
MovBed Test Type:	Loop	Left Q (%):	0.25																
MovBed Test Quality:	Good	Right Q (%):	2.27																
MovBed Test Dur.(s):	345.4	Bottom Q (%):	11.63																
Max MovBed (%):	0.33	Invalid Cells Q (%):	0.01																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.80																

Automated QA Messages:

WARNINGS

- TEMPERATURE: The difference between ADCP and reference is > 2: 2.7 C;

Cautions

- 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 number not entered;

Comments:

- MMT Remarks:
- [Temp/Sal, 2024-06-23 17:34:40, sarah]: Discharge measurement not taken from bridge, temperature measurement must be taken from edge rather than middle channel.
- [Main, 2024-06-23 17:44:05, sarah]: No site number for this site.
- [2024-06-23 17:44:40, sarah]: File Saved Q = 441.54 ft3/s (Uncertainty: 6.9%)



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Comments:

- [Main, 2024-07-14 09:39:12, sarah]: Transects 002 and 005 unchecked in reprocess after revisiting WinRiver file that showed 002 as red and then 005 as red once 002 unchecked
- [Main, 2024-07-14 09:40:29, sarah]: Temperature disparity cannot be rectified, ADCP allowed to sit in water for 15 minutes to equilibrate along with reference sonde (taking independent temperature read).
- [2024-07-14 09:41:52, sarah]: File Saved Q = 428.05 ft³/s (Uncertainty: 6.0%)

ID	File Name
0	0_000_24-05-16.PD0
1	0_001_24-05-16.PD0
3	0_003_24-05-16.PD0
4	0_004_24-05-16.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	11:29:25	11:35:26	361.7	66.8	294.0	46.9	0.592	10.4	419.0
1	Right	11:35:44	11:41:43	359.6	65.9	294.0	49.1	1.42	9.53	420.0
3	Right	11:52:49	11:57:32	282.5	67.8	299.0	50.3	0.846	8.76	427.0
4	Left	11:59:33	12:08:18	525.3	72.9	309.0	52.9	1.42	10.2	447.0
				1529.1	68.4	299.0	49.8	1.07	9.71	428.0

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	1.22	10	0.3535
1	Right	Triangular	1.22	10	0.3535	Triangular	1.22	10	0.3535
3	Right	Triangular	1.22	10	0.3535	Triangular	1.22	10	0.3535
4	Left	Triangular	1.22	10	0.3535	Triangular	1.22	10	0.3535



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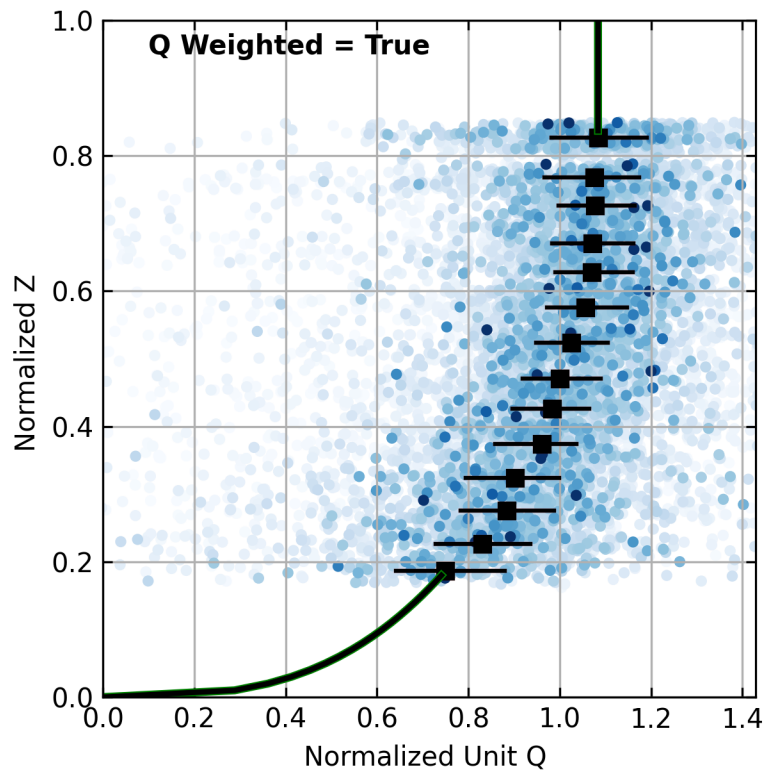
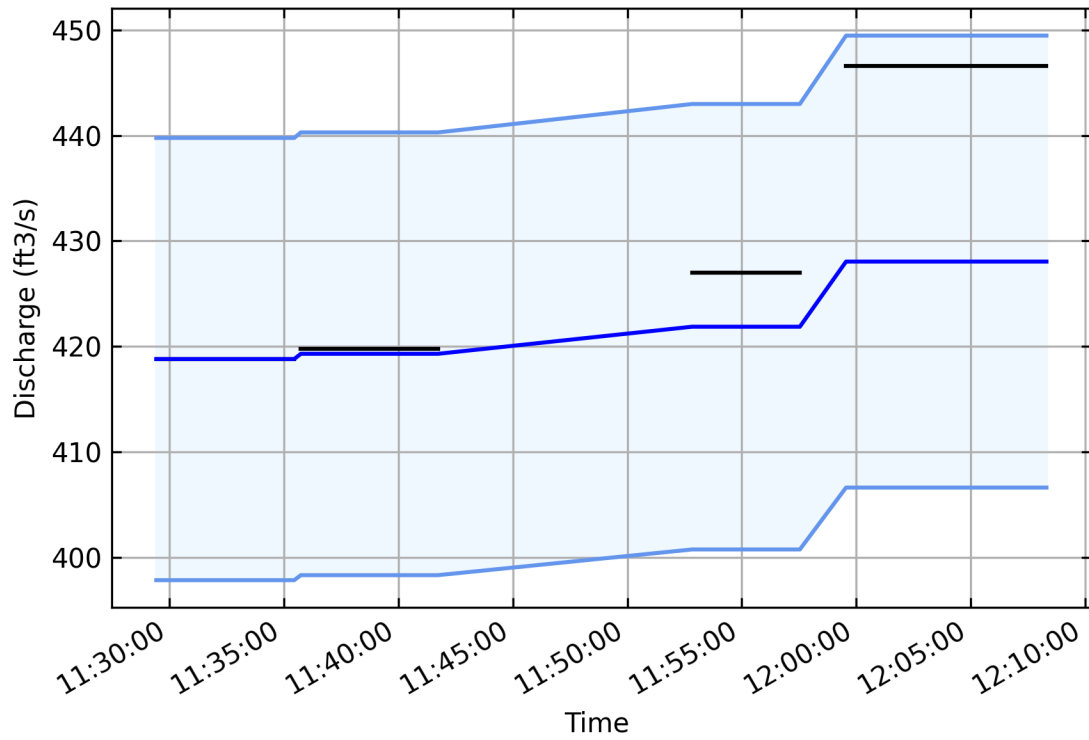
Measurement Number: 0

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User Rating: Not Rated

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