



QRev Discharge Measurement Report

1 of 4

Station Name: 05312024_DiamondBridge

Station Number:

Measurement Date: 2024.05.31

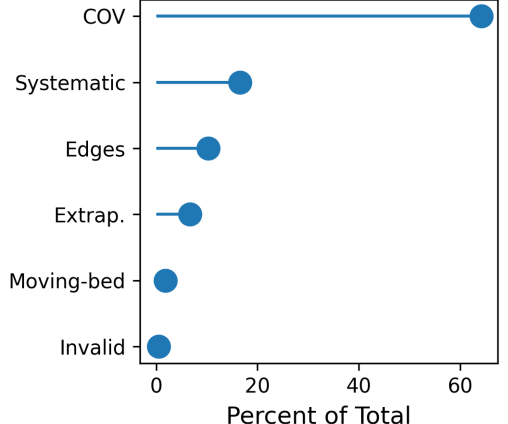
Measurement Number: 0

Discharge: 322.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 10:47:03

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	322.0	Mean Velocity (ft/s):	1.707
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.491
Version:	4.36	Total Duration (s):	931.2	Mean Depth (ft):	5.366
ADCP		Start Time:	12:58:46	Max. Depth (ft):	6.803
Manufacturer:	TRDI	End Time:	13:09:53	Width (ft):	35.237
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	4.33
Serial Number:	2673	Stage End:	0.00	Area (ft2):	189.019
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	3.46
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.195	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	12.111111	Bottom Extrap:	No Slip	95% Total Uncertainty: 7.4 	
W. Temp. ADCP (C):		Extrap Exponent:	0.3669		
System Test:	Passed	Discharg COV (%):	3.72		
Compass Cal/Eval:	0.24	Top Q (%):	5.82		
Magnetic Variaton:	0.0	Measured Q (%):	77.56		
MovBed Test Type:	Loop	Left Q (%):	4.39		
MovBed Test Quality:	Warnings	Right Q (%):	3.51		
MovBed Test Dur.(s):	265.9	Bottom Q (%):	8.71		
Max MovBed (%):	1.58	Invalid Cells Q (%):	0.03		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	2.48		

Automated QA Messages:

WARNINGS

- TEMPERATURE: The difference between ADCP and reference is > 2: 2.9 C;

Cautions

- bt-Int. Q for consecutive invalid ensembles exceeds 3.0%;
- Moving-Bed Test: The moving-bed test(s) has warnings, please review tests to determine validity;
- Temperature: Temperature range is 1.6 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;
- Site Info: Station number not entered;

Comments:

- MMT Remarks:



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Comments:

- [Temp/Sal, 2024-07-14 10:45:14, sarah]: ADCP allowed to equilibrate with reference sonde (Independent) for 10 minutes in river, cannot rectify difference.
- [2024-07-14 10:47:00, sarah]: File Saved Q = 322.48 ft3/s (Uncertainty: 7.4%)

ID	File Name
0	05312025_DiamondBridge_0_000.PD0
1	05312025_DiamondBridge_0_001.PD0
2	05312025_DiamondBridge_0_002.PD0
3	05312025_DiamondBridge_0_003.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	12:58:46	13:02:35	228.2	17.3	241.0	25.6	13.1	12.4	310.0
1	Right	13:02:48	13:06:23	214.9	19.1	254.0	30.1	14.3	9.23	327.0
2	Left	13:06:33	13:09:45	191.8	20.9	260.0	27.5	15.1	13.5	337.0
3	Right	13:09:53	13:14:50	296.2	17.8	245.0	29.1	14.1	10.2	316.0
				931.2	18.8	250.0	28.1	14.2	11.3	322.0

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	1.37	10	0.3535	Triangular	1.37	10	0.3535
1	Right	Triangular	1.37	10	0.3535	Triangular	1.37	10	0.3535
2	Left	Triangular	1.37	10	0.3535	Triangular	1.37	10	0.3535
3	Right	Triangular	1.37	10	0.3535	Triangular	1.37	10	0.3535



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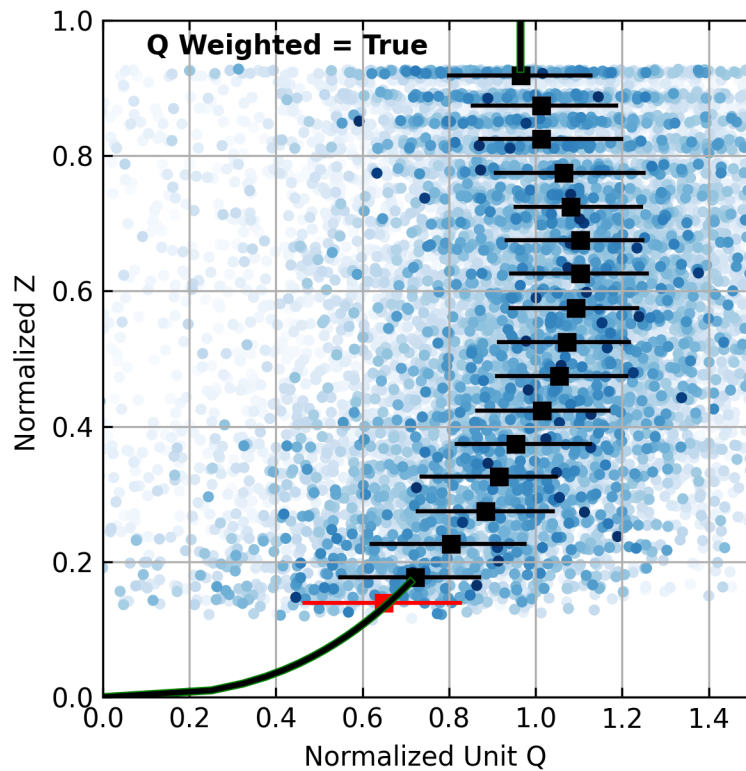
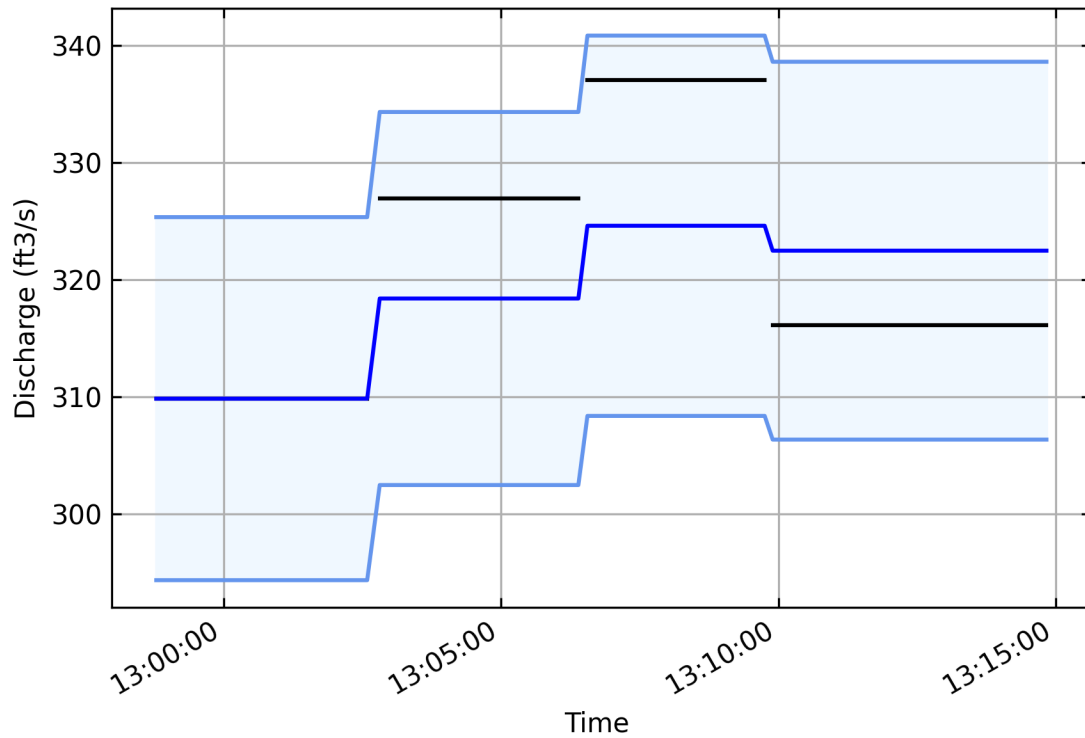
Measurement Number: 0

Discharge: 322.0

Stage: 0.00

User Rating: Not Rated

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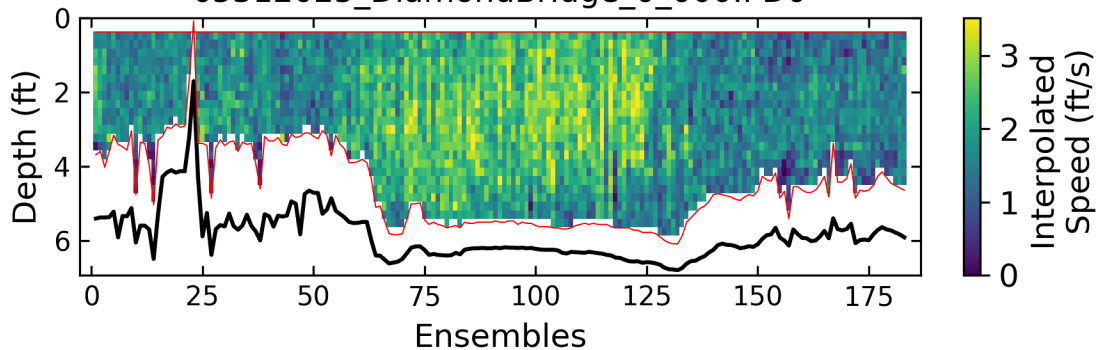
Discharge: 322.0

Stage: 0.00

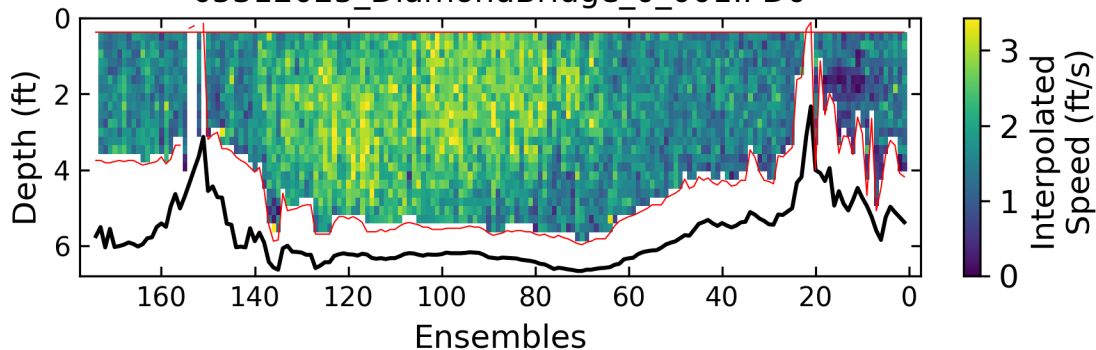
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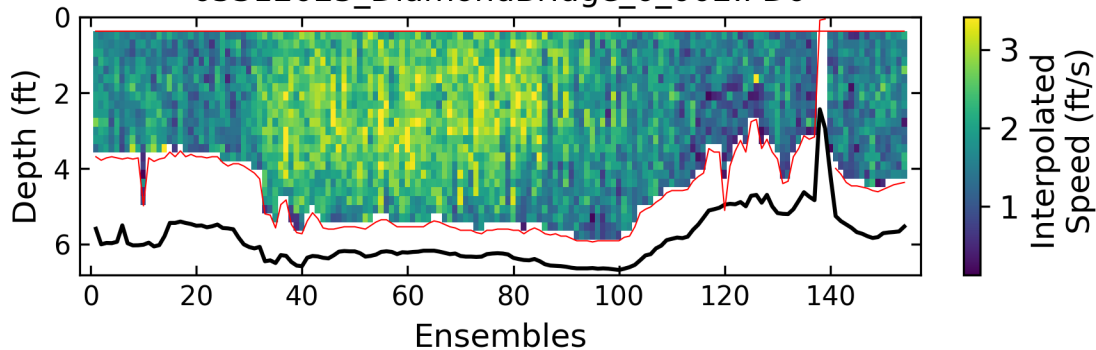
05312025_DiamondBridge_0_000.PD0



05312025_DiamondBridge_0_001.PD0



05312025_DiamondBridge_0_002.PD0



05312025_DiamondBridge_0_003.PD0

