

Station Name: 07082025_S3Diamond

Station Number:

Measurement Date: 2025.07.08

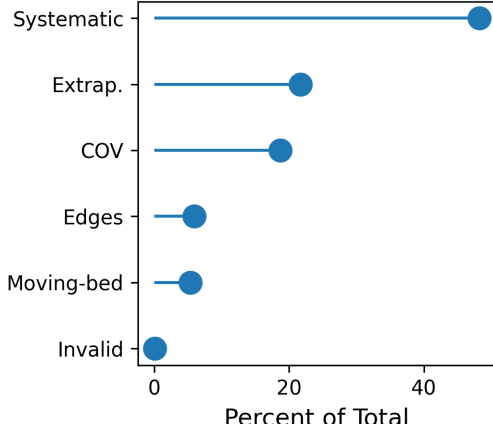
Measurement Number: 0

Discharge: 70.02

Stage: 0.00

User Rating: Not Rated

Processed: 2025.07.17 16:16:35

Field Crew:		Discharge Summary		Cross Section															
Processed By:	ADCPH	Discharge (ft3/s):	70.02	Mean Velocity (ft/s):	1.104														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.773														
Version:	4.37	Total Duration (s):	787.9	Mean Depth (ft):	2.215														
ADCP		Start Time:	14:50:53	Max. Depth (ft):	3.218														
Manufacturer:	TRDI	End Time:	15:01:08	Width (ft):	28.664														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.31														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	63.498														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	3.50														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.137	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	21.322222	Bottom Extrap:	No Slip	95% Total Uncertainty: 4.3  <table><caption>Uncertainty Breakdown Data</caption><thead><tr><th>Source</th><th>Percent of Total</th></tr></thead><tbody><tr><td>Systematic</td><td>~45%</td></tr><tr><td>Extrap.</td><td>~22%</td></tr><tr><td>COV</td><td>~20%</td></tr><tr><td>Edges</td><td>~5%</td></tr><tr><td>Moving-bed</td><td>~5%</td></tr><tr><td>Invalid</td><td>~1%</td></tr></tbody></table>		Source	Percent of Total	Systematic	~45%	Extrap.	~22%	COV	~20%	Edges	~5%	Moving-bed	~5%	Invalid	~1%
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W. Temp. ADCP (C):		Extrap Exponent:	0.3625																
System Test:	Passed	Discharg COV (%):	1.17																
Compass Cal/Eval:	0.86	Top Q (%):	18.67																
Magnetic Variaton:	13.5	Measured Q (%):	64.43																
MovBed Test Type:	Loop	Left Q (%):	2.40																
MovBed Test Quality:	Good	Right Q (%):	1.11																
MovBed Test Dur.(s):	221.9	Bottom Q (%):	13.38																
Max MovBed (%):	0.39	Invalid Cells Q (%):	0.06																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.69																

Automated QA Messages:

WARNINGS

Cautions

- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Site Info: Station number not entered;

Comments:

- MMT Remarks:
- [Main, 2025-07-17 16:11:48, ADCPH]: This site has no station number. Measurement conditions were sunny and hot, high 80s and low 90s F. The ADCP WT was equilibrated in the shade of the bridge. Equilibration took 45 minutes but did come within range of the independent WT. Extremely slow water still present on the right side of the transect. Causing some unwanted boat movement and likely the cause of the non-ideal extrapolation. The Qrev chosen extrapolation is the best fit for this measurement.
- [2025-07-17 16:16:30, ADCPH]: File Saved Q = 70.02 ft3/s (Uncertainty: 4.3%)



QRev Discharge Measurement Report

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ID	File Name
0	07082025_S3Diamond_0_000_25-07-08.PD0
1	07082025_S3Diamond_0_001_25-07-08.PD0
2	07082025_S3Diamond_0_002_25-07-08.PD0
3	07082025_S3Diamond_0_003_25-07-08.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	14:50:53	14:54:04	190.9	13.63	45.04	9.63	1.56	0.87	70.73
1	Right	14:54:19	14:57:37	197.5	12.91	44.78	9.6	1.61	0.38	69.28
2	Left	14:57:48	15:00:59	191.2	12.9	45.87	9.47	1.75	0.73	70.72
3	Right	15:01:08	15:04:37	208.4	12.86	44.75	8.79	1.8	1.13	69.33
				787.9	13.07	45.11	9.37	1.68	0.78	70.02

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	2.00	10	0.3535	Triangular	4.00	10	0.3535
1	Right	Triangular	2.00	10	0.3535	Triangular	4.00	10	0.3535
2	Left	Triangular	2.00	10	0.3535	Triangular	4.00	10	0.3535
3	Right	Triangular	2.00	10	0.3535	Triangular	4.00	10	0.3535



QRev Discharge Measurement Report

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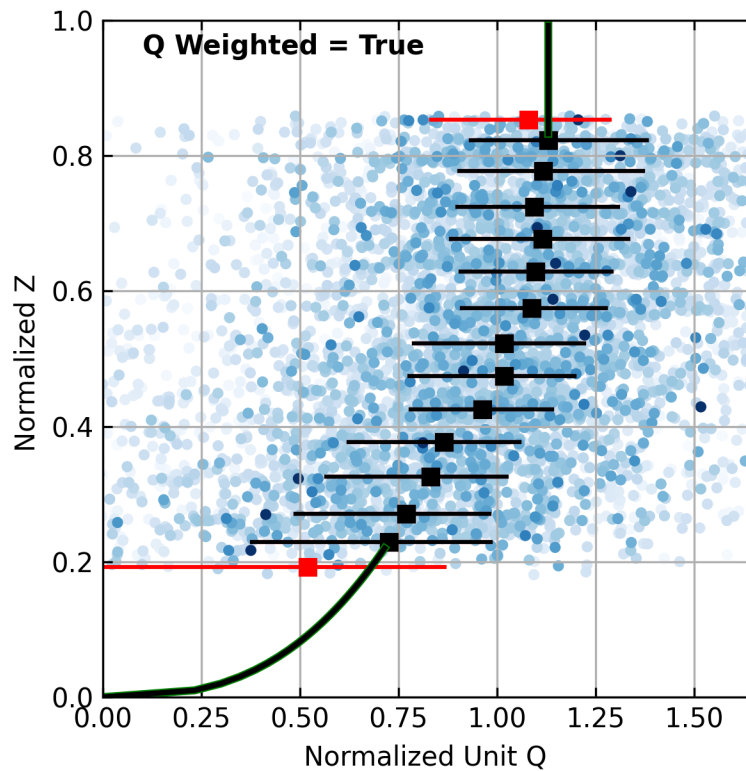
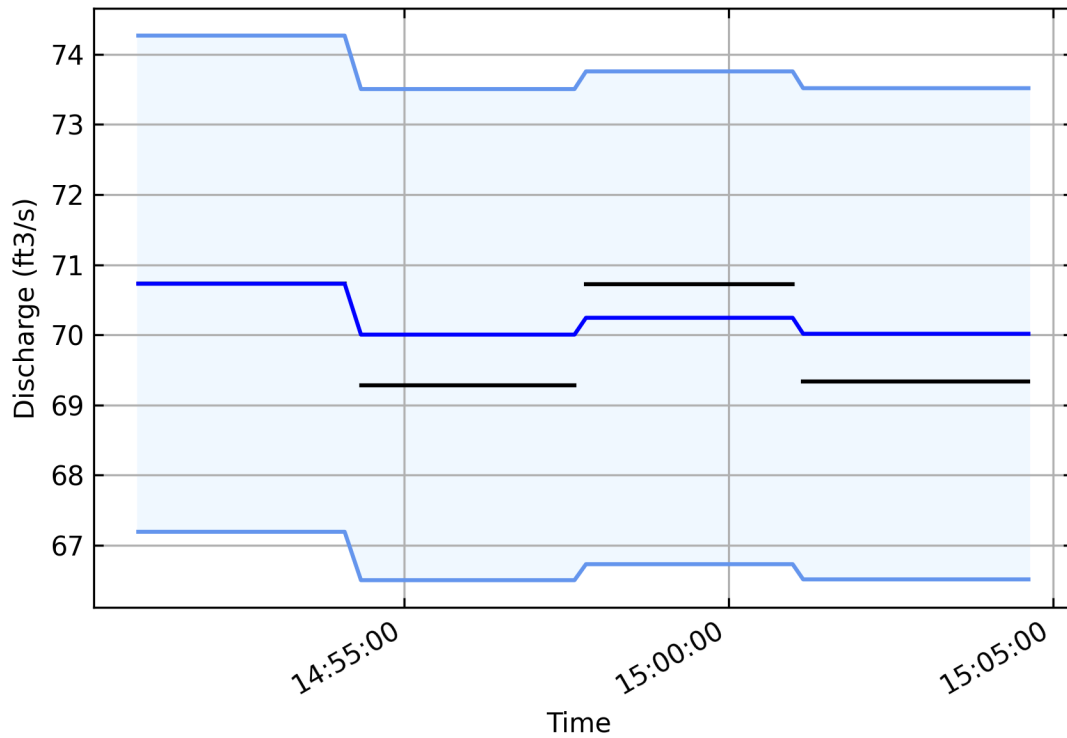
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QRev Discharge Measurement Report

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