Discharge Measurement Summary

File Information

File name	ABRAMSD5_20190828-113550.ft
Start date and time	8/28/2019 11:24 AM
Calculations engine	FlowTracker2
Data collection mode	Discharge

Discharge Summary

Start time	8/28/2019 11:25:50 AM		End time	8/28/2019 11:33:12 AM
# Stations	8		Avg interval	40
Mean depth	0.370	ft		
Mean velocity	1.1217	ft/s	Total width	2.100 ft
Mean SNR	48	dB	Total area	0.7770 ft²
Mean temp	43.819	°F	Total discharge	0.8716 ft³/s

System Information

Sensor type	Top Setting
Handheld serial number	FT2H1747037
Probe serial number	FT2P1747048
Probe firmware	1.23
Handheld software	1.4

Site Details

Site name	ABRAMSD5
Site number	003
Operator(s)	Jack Landers
Comment	Abrams Creek Gage

Discharge Uncertainty

Category	ISO	IVE
Accuracy	1.0%	1.0%
Depth	0.7%	9.8%
Velocity	1.5%	18.1%
Width	0.2%	0.2%
Method	3.6%	
# Stations	6.6%	
Overall	7.8%	20.6%

Discharge Settings

Discharge equation	Mid Section
Discharge uncertainty	IVE
Discharge reference	Rated

Station Warning Settings

Station discharge caution	5.00	%
Station discharge warning	10.00	%
Maximum depth change	50.00	%
Maximum spacing change	100.00	%

Summary overview

No changes were made to this file
Quality control warnings

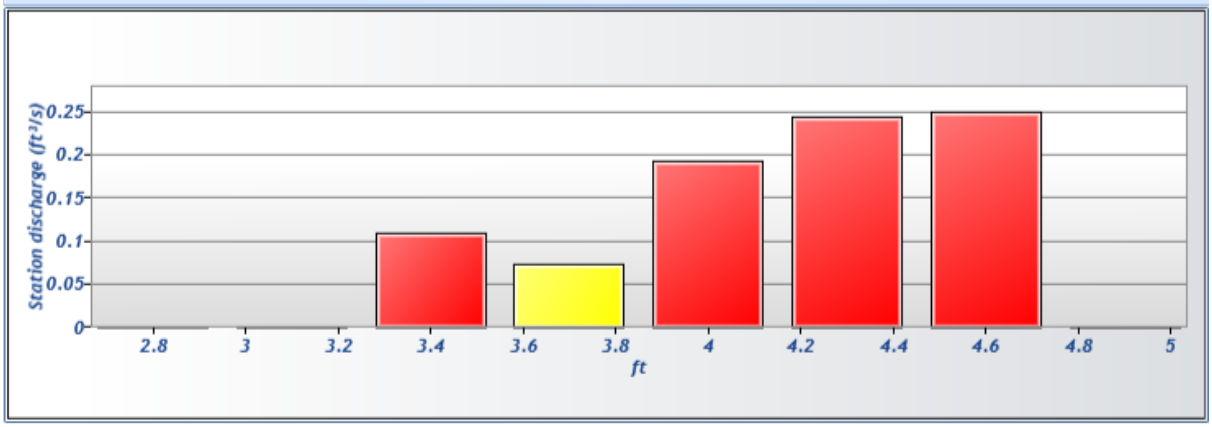
Data Collection Settings

Salinity	0.000	PSS-78
Temperature		°F
Sound speed		ft/s
Mounting correction	0.00	%

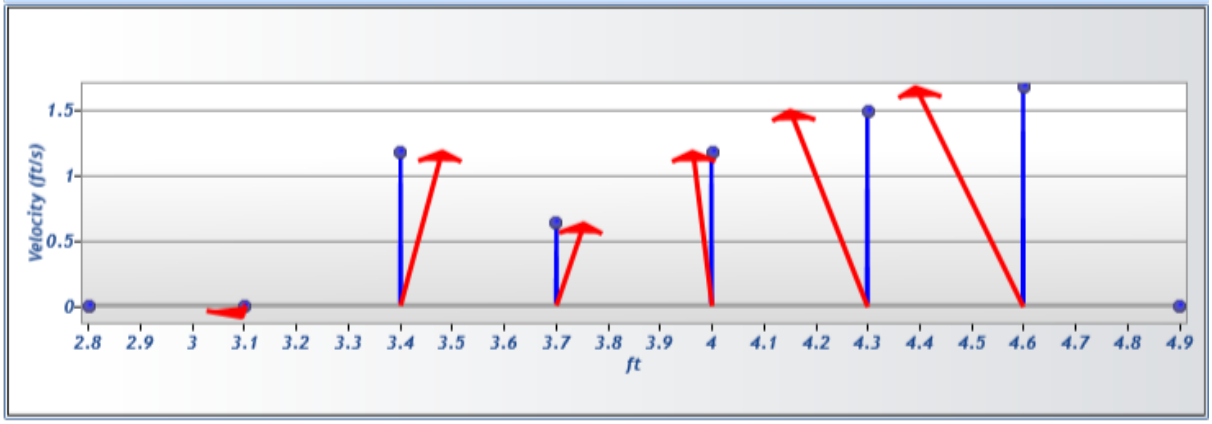
Quality Control Settings

SNR threshold	10	dB
Standard error threshold	0.0328	ft/s
Spike threshold	10.00	%
Maximum velocity angle	20.0	deg
Maximum tilt angle	5.0	deg

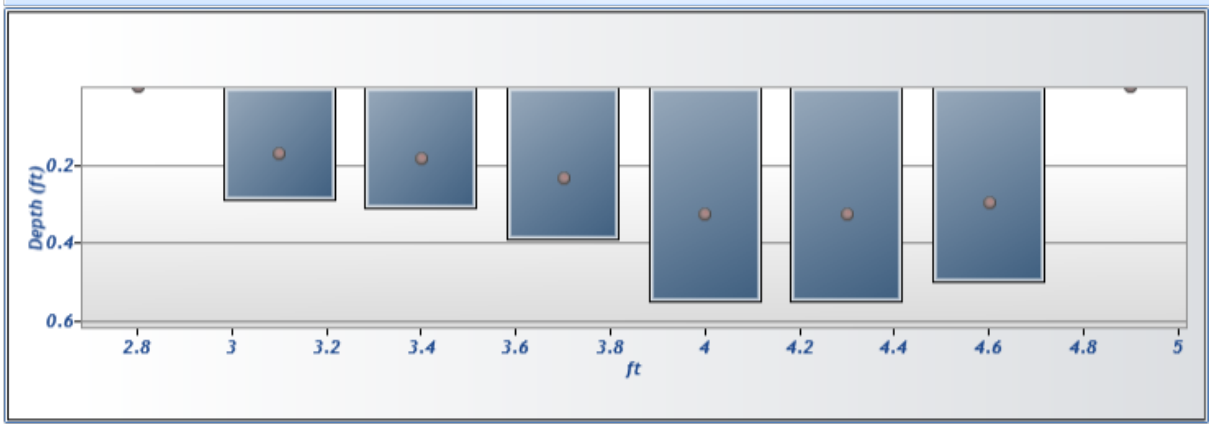
Discharge chart



Velocity chart



Depth chart



Measurement results

St#	Time	Location (ft)	Method	Depth (ft)	%Depth	Measured Depth (ft)	Samples	Velocity (ft/s)	Correction	Mean Velocity (ft/s)	Area (ft^2)	Flow (ft^3/s)	%Q		
0	11:25 AM	2.800	None	0.000	0.0000	0.000	0	0.0000	1.0000	0.0055	0.0000	0.0000	0.00	✓	
1	11:26 AM	3.100	0.6	0.290	0.6000	0.174	80	0.0055	1.0000	0.0055	0.0870	0.0005	0.05	✓	
2	11:27 AM	3.400	0.6	0.310	0.6000	0.186	80	1.1749	1.0000	1.1749	0.0930	0.1093	12.54	✓	
3	11:28 AM	3.700	0.6	0.390	0.6000	0.234	80	0.6302	1.0000	0.6302	0.1170	0.0737	8.46	✓	
4	11:29 AM	4.000	0.6	0.550	0.6000	0.330	80	1.1688	1.0000	1.1688	0.1650	0.1929	22.13	✓	
5	11:31 AM	4.300	0.6	0.550	0.6000	0.330	80	1.4878	1.0000	1.4878	0.1650	0.2455	28.16	✓	
6	11:32 AM	4.600	0.6	0.500	0.6000	0.300	80	1.6652	1.0000	1.6652	0.1500	0.2498	28.66	✓	
7	11:33 AM	4.900	None	0.000	0.0000	0.000	0	0.0000	1.0000	1.6652	0.0000	0.0000	0.00	✓	

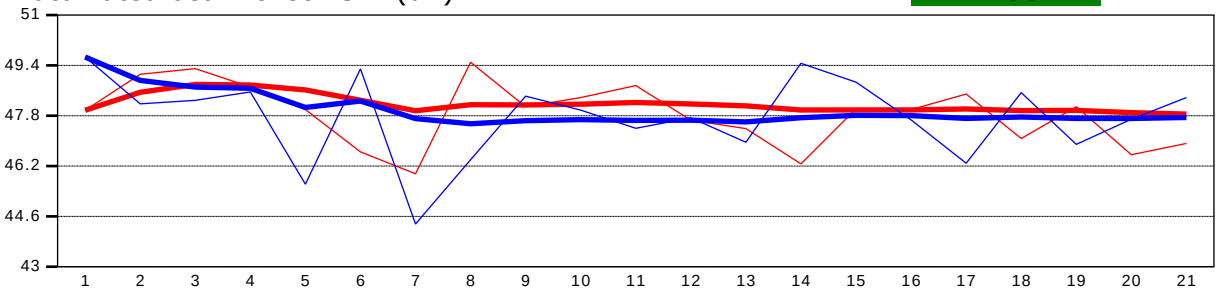
Quality control warnings

St#	Time	Location (ft)	Method	Depth (ft)	%Depth	Measured Depth (ft)	Warnings	
1	11:26 AM	3.100	0.6	0.290	0.6000	0.174	Boundary Interference,High % Spikes	
2	11:27 AM	3.400	0.6	0.310	0.6000	0.186	Standard Error > QC,High Stn % Discharge	
3	11:28 AM	3.700	0.6	0.390	0.6000	0.234	Standard Error > QC	
4	11:29 AM	4.000	0.6	0.550	0.6000	0.330	Standard Error > QC,High Stn % Discharge	
5	11:31 AM	4.300	0.6	0.550	0.6000	0.330	Standard Error > QC,High Stn % Discharge	
6	11:32 AM	4.600	0.6	0.500	0.6000	0.300	Standard Error > QC,High Stn % Discharge	

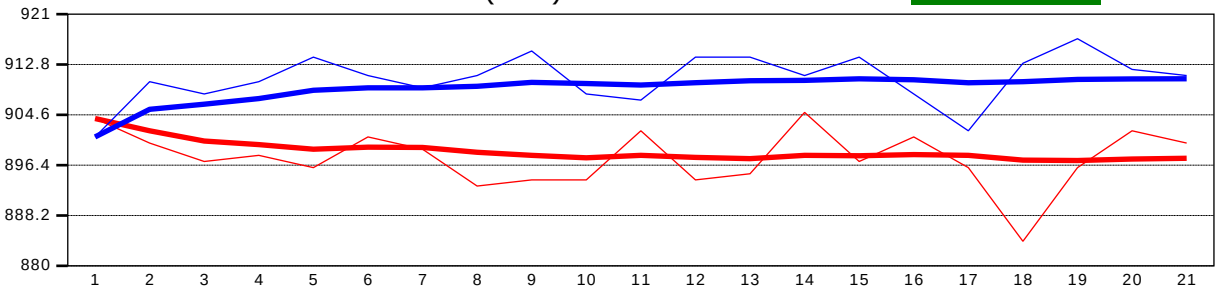
8/29/2019 10:56:48 AM

Automated beam check Start time 8/28/2019 11:25:28 AM

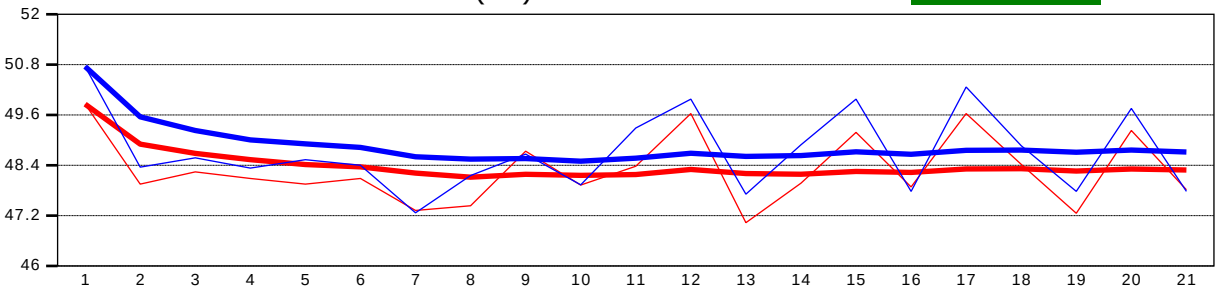
Automated beam check SNR(dB) PASS



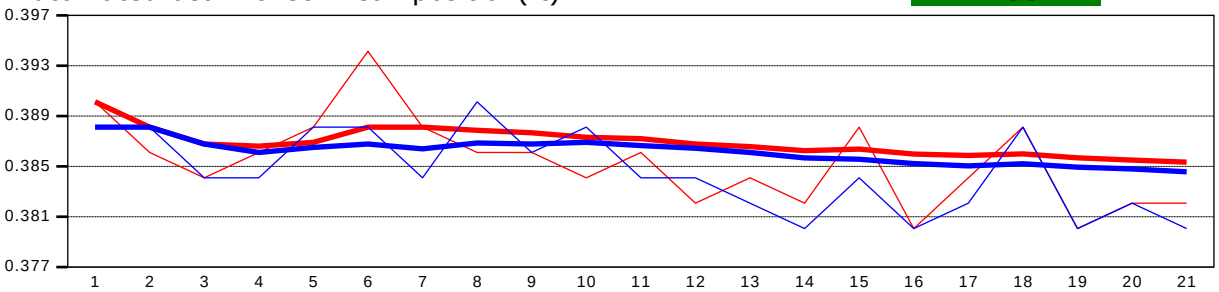
Automated beam check Noise level(cnts) PASS



Automated beam check Peak level(dB) PASS



Automated beam check Peak position(ft) PASS



Automated beam check Quality control warnings

No quality control warnings