

9-275-1	10/24/08	U.S. DEPARTMENT OF THE INTERIOR U.S. Geological Survey				Meas. No.	
Station Number						Processed by	
		ADCP Discharge Measurement Notes				Checked by	
Station Name		Inflow/ Outflow 1					
Date		05-28, 20 11		Party		BR/2M	
Width	Area / Rated Area	Velocity	Index Vel.	Gage Height	Discharge		
439	15,000	0.864	—	—	12,933		
Gage Height Change		Meas. plots	From rating	Shift	ADCP Sync'd to WT		
in hrs.		% diff	No.:		Y at _____ or N		
ADCP Mfr / Model / Frequency			Serial No.	Firmware	Software		
RS m9			2010	1.50	2.50		
Boat/Motors Used		GPS Used	ADCP Depth	Diag. Test / Errors?			
		no	0.3	<input checked="" type="checkbox"/> Y or <input checked="" type="checkbox"/> N			
Compass Calib. & Total Error		Mag. Var	MagVar Method		Moving Bed?		
(Y or N) m009		-1.4	On-site Model Previous		Y or (N)		
Meas. Water Temp		ADCP Water Temp	Weather / Air Temp		Wind Speed / Dir.		
71 °F / C at		72 °F / C at	°F / C				
Gage Readings				Site Conditions			
Time				Inside	Outside	Max Water Depth	
						Max Water Speed	
1328						Max Boat Speed	
						Water Mode	
1345						Bottom Mode	
				Streambed material			
				Salinity			
				ppt at			
Weighted MGH						Checkbar found	
GH corrections						Checkbar changed to:	
Correct MGH						at	
Wading, cable, ice, boat, upstr., downstr., side bridge				ft., mi. upstr., downstr. of gage			
Measurement rated:		excellent (2%), good (5%), fair (8%), poor (>8%)		based on following conditions			
Flow							
Cross section:							
Control:							
Gage operating:	Y or N	Record removed:	Y or N	Filename:			
Battery voltage	V	Intakes/Orifice cleaned/purged:					
Bubble-gage psi:	Tank	Line		Bubble rate	/ min		
Extreme-GH indicators:		Max		Min		CSG Checked	Y or N
HWM on stick		Ref elev.		HWM elevation			
GH of zero flow = GH		- depth at control		=	ft.	Rated=	
Sheet No.				of	sheets		

# Discharge Measurement Summary

Date Measured: Saturday, May 28, 2011

Site Information		Measurement Information	
Site Name	inflow/outflow1	Party	bcr/zwm
Station Number		Boat/Motor	
Location		Meas. Number	

System Information		System Setup		Units	
System Type	RS-M9	Transducer Depth (ft)	0.30	Distance	ft
Serial Number	2010	Salinity (ppt)	0.0	Velocity	ft/s
Firmware Version	1.50	Magnetic Declination (deg)	-1.4	Area	ft2
Software Version	2.50			Discharge	cfs
				Temperature	degF

Discharge Calculation Settings				Discharge Results	
Track Reference	Bottom-Track	Left Method	Sloped Bank	Width (ft)	439.20
Depth Reference	Vertical Beam	Right Method	Sloped Bank	Area (ft2)	14,999.5
Coordinate System	ENU	Top Fit Type	Power Fit	Mean Speed (ft/s)	0.864
		Bottom Fit Type	Power Fit	Total Q (cfs)	12,933.273

Measurement Results																	
Tr	Time		Distance				Mean Vel		Discharge								%
#	Time	Duration	Temp.	Track	DMG	Width	Area	Boat	Water	Left	Right	Top	Middle	Bottom	Total	LCTotal	Measured
1 R	1:28:35 PM	0:02:43	72.2	431.13	407.39	452.39	15,783.1	2.645	0.794	-6.67	118.37	735.30	9,637.48	2,291.08	12,538.819	--	76.9
2 L	1:31:42 PM	0:03:48	71.9	462.88	416.47	446.47	15,364.6	2.030	0.853	-7.51	-48.21	753.03	10,166.72	2,243.80	13,107.819	--	77.6
4 L	1:39:32 PM	0:03:30	71.2	457.27	398.10	428.10	14,237.5	2.177	0.929	2.20	-57.20	763.55	10,320.30	2,191.45	13,220.298	--	78.1
5 R	1:43:35 PM	0:02:59	70.8	440.93	399.82	429.82	14,612.9	2.463	0.880	-9.35	-59.08	746.74	9,966.56	2,221.28	12,866.159	--	77.5
		Mean	71.5	448.05	405.45	439.20	14,999.5	2.329	0.864	-5.33	-70.72	749.65	10,022.76	2,236.90	12,933.273	0.000	77.5
		Std Dev	0.6	12.67	7.26	10.46	607.8	0.240	0.048	4.46	27.82	10.23	255.37	36.38	261.222	0.000	0.4
		COV	0.0	0.028	0.018	0.024	0.041	0.103	0.056	0.836	-0.393	0.014	0.025	0.016	0.020	0.000	0.006

Exposure Time: 0:13:00

Tr1=20110528132834.riv; Tr2=20110528133141.riv; Tr4=20110528133931.riv; Tr5=20110528134335.riv;

Comments
Tr1=20110528132834.riv - ; Tr2=20110528133141.riv - ; Tr4=20110528133931.riv - ; Tr5=20110528134335.riv - ;

Compass Calibration
File Name: CompassCal20110528131645.txt
Results: PASS Score is excellent. Magnetic interference is very low.
Calibration score: M0.00Q9

System Test
Not Loaded

Parameters and settings marked with a \* are not constant for all files.

Report generated using SonTek RiverSurveyor Live v2.50