

9-275-I	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 2					
Date		05-30, 20 11		Party		BR/ZM	
Width	Area / Rated Area	Velocity	Index Vel.	Gage Height	Discharge		
47.86	200	3.53	—	—	706		
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 type="checkbox"/> N			
Compass Calib. & Total Error		Mag. Var	MagVar Method		Moving Bed?		
<input type="radio"/> Y or <input checked="" type="radio"/> N		m109	-1.3	On-site <input checked="" type="radio"/> Model <input type="radio"/> Previous	<input type="radio"/> Y or <input checked="" type="radio"/> N		
Meas. Water Temp		ADCP Water Temp	Weather / Air Temp		Wind Speed / Dir.		
75 °F / C at		75 °F / C at	°F / C				
Gage Readings						Site Conditions	
Time				Inside	Outside	Max Water Depth	
						Max Water Speed	
S 0947						Max Boat Speed	
						Water Mode	
F 0949						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			Refelev.		HWM elevation		
GH of zero flow = GH			- depth at control		=	ft.	Rated=
Sheet No.					of		sheets

Discharge Measurement Summary

Date Measured: Monday, May 30, 2011

Site Information		Measurement Information	
Site Name	inflow outflow 2	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)	-1.3	Area	ft2
Software Version	2.50			Discharge	cfs
				Temperature	degF

Discharge Calculation Settings				Discharge Results	
Track Reference	Bottom-Track with LC	Left Method	Sloped Bank	Width (ft)	47.86
Depth Reference	Vertical Beam	Right Method	Sloped Bank	Area (ft2)	199.8
Coordinate System	ENU	Top Fit Type	Power Fit	Total Q (cfs)	705.901
		Bottom Fit Type	Power Fit		

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
3 R	9:47:53 AM	0:00:29	75.4	41.12	35.82	48.94	198.3	1.418	3.437	1.08	-0.74	95.85	480.95	104.60	681.729	708.576	70.5
4 L	9:48:39 AM	0:00:21	75.0	36.14	33.65	46.77	201.3	1.721	3.403	32.42	11.63	90.64	444.65	105.53	684.873	703.227	64.9
		Mean	75.2	38.63	34.74	47.86	199.8	1.570	3.420	16.75	5.44	93.24	462.80	105.07	683.301	705.901	67.7
		Std Dev	0.2	2.49	1.08	1.08	1.5	0.152	0.017	15.67	6.19	2.60	18.15	0.47	1.572	2.674	2.8
		COV	0.0	0.064	0.031	0.023	0.007	0.097	0.005	0.936	1.136	0.028	0.039	0.004	0.002	0.004	0.042

Exposure Time: 0:00:50

Tr3=20110530094752.riv; Tr4=20110530094838.riv;

Comments																	
Tr3=20110530094752.riv - ; Tr4=20110530094838.riv - ;																	

Loop Method					
DMG	Loop Time	Moving Bed Velocity	Moving Bed Direction	Flow Direction	Estimated Percent Correction
5.35	48	0.11	92.60	237.59	3.93
File Name: Loop_20110530094647.riv					
Percent Bad Bottom Track: 0.0.					
Difference in flow direction between out and back sections: 1.2 deg.					
Loop Indicates a Moving Bed					

Compass Calibration																	
File Name: CompassCal20110530084601.txt																	
Results: PASS																	
Score is excellent.																	
Magnetic interference is very low.																	
Calibration score: M1.00Q9																	

System Test																	
Not Loaded																	

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

Report generated using SonTek RiverSurveyor Live v2.50