

9-275-I	10/24/08	U.S. DEPARTMENT OF THE INTERIOR				Meas. No.	
Station Number		U.S. Geological Survey				Processed by	
		ADCP Discharge Measurement Notes				Checked by	
Station Name		Birds Point Outflow					
Date	06-04	20	11	Party	BR/ZM		
Width	Area / Rated Area	Velocity		Index Vel.	Gage Height	Discharge	
456	7,216	0.016		—	—	116	
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="checkbox"/> Y or <input type="checkbox"/> N		M4 Q9	-1.6		On-site <input type="checkbox"/> Model <input type="checkbox"/> Previous		<input type="checkbox"/> Y or <input type="checkbox"/> N
Meas. Water Temp		ADCP Water Temp	Weather / Air Temp		Wind Speed / Dir.		
87 °F / C at		94 °F / C at			°F / C		
Gage Readings					Site Conditions		
Time				Inside	Outside	Max Water Depth	
						Max Water Speed	
1607						Max Boat Speed	
						Water Mode	
						Bottom Mode	
1617						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%), <u>poor (&gt;8%)</u>				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, June 04, 2011

Site Information		Measurement Information	
Site Name	birdspoint	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)	-1.6	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)	455.70
Depth Reference	Vertical Beam	Right Method	Sloped Bank	Area (ft2)	7,216.1
Coordinate System	ENU	Top Fit Type	Power Fit	Mean Speed (ft/s)	-0.016
		Bottom Fit Type	Power Fit	Total Q (cfs)	-115.776

Measurement Results																	
Tr	Time			Distance				Mean Vel		Discharge						% Measured	
#	Time	Duration	Temp.	Track	DMG	Width	Area	Boat	Water	Left	Right	Top	Middle	Bottom	Total	LCTotal	Measured
1 L	4:07:29 PM	0:02:59	94.4	438.66	430.53	457.09	7,766.0	2.451	-0.014	-2.29	-0.47	-2.42	-84.76	-20.21	110.146	--	77.0
3 R	4:13:30 PM	0:04:05	94.2	475.93	427.75	454.31	6,666.2	1.943	-0.018	-0.72	-3.01	-1.37	-94.30	-22.00	121.405	--	77.7
		<b>Mean</b>	94.3	457.30	429.14	455.70	7,216.1	2.197	-0.016	-1.51	-1.74	-1.89	-89.53	-21.10	115.776	0.000	77.3
		<b>Std Dev</b>	0.1	18.63	1.39	1.39	549.9	0.254	0.002	0.78	1.27	0.52	4.77	0.90	5.630	0.000	0.4
		<b>COV</b>	0.0	0.041	0.003	0.003	0.076	0.116	-0.124	0.521	0.729	0.277	-0.053	-0.042	-0.049	0.000	0.005

Exposure Time: 0:07:04

Tr1=20110604160729.riv; Tr3=20110604161329.riv;

Comments
Tr1=20110604160729.riv - ; Tr3=20110604161329.riv - ;

Compass Calibration
File Name: CompassCal20110604160539.txt
Results: PASS
Score is excellent.
Magnetic interference is very low.
Calibration score: M4.00Q9

System Test
Not Loaded

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

Report generated using SonTek RiverSurveyor Live v2.50