

9-275-I	10/24/08	U.S. DEPARTMENT OF THE INTERIOR U.S. Geological Survey				Meas. No.	
Station Number		ADCP Discharge Measurement Notes				Processed by	
						Checked by	
Station Name <u>Birds Point Inflow/Outflow</u>							
Date <u>06-03</u> , 20 <u>11</u>		Party <u>BR/2M</u>					
Width	Area / Rated Area	Velocity	Index Vel.	Gage Height	Discharge		
<u>455</u>	<u>6,820</u>	<u>0.001</u>	<u>—</u>	<u>—</u>	<u>Ø</u>		
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		
<u>RS M9</u>			<u>2010</u>	<u>1.50</u>	<u>2.50</u>		
Boat/Motors Used			GPS Used	ADCP Depth	Diag. Test / Errors?		
			<u>NO</u>	<u>0.3</u>	<input checked="" type="checkbox"/> Y or <input checked="" type="checkbox"/> N		
Compass Calib. & Total Error		Mag. Var	MagVar Method		Moving Bed?		
<input checked="" type="radio"/> Y or <input checked="" type="radio"/> N		<u>M209</u>	<u>-1.6</u>		On-site <input checked="" type="radio"/> Model <input checked="" type="radio"/> Previous		Y or <input checked="" type="radio"/> N
Meas. Water Temp		ADCP Water Temp	Weather / Air Temp		Wind Speed / Dir.		
<u>86</u> °F / C at		<u>87</u> °F / C at			°F / C		
Gage Readings					Site Conditions		
Time			Inside	Outside	Max Water Depth		
					Max Water Speed		
<u>1410</u>					Max Boat Speed		
					Water Mode		
<u>1424</u>					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%), <u>poor (&gt;8%)</u>			based on following conditions		
Flow	<u>Northern hole est. 10 cfs outflow</u>						
Cross section:	<u>Southern hole 6 cfs inflow</u> <u>&gt;</u> <u>NET 4 cfs outflow</u>						
Control:	<u>Very Poor - Calling</u>						
Gage operating:	Y or N	Record removed:	Y or N	Filename:	<u>Zero flow</u>		
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: Friday, June 03, 2011

Site Information		Measurement Information	
Site Name	Birds Point	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)	454.80
Depth Reference	Vertical Beam	Right Method	Sloped Bank	Area (ft2)	6,820.0
Coordinate System	ENU	Top Fit Type	Power Fit	Mean Speed (ft/s)	0.001
		Bottom Fit Type	Power Fit	Total Q (cfs)	5.805

Measurement Results																	
Tr	Time		Temp.	Distance				Mean Vel		Discharge							%
#	Time	Duration		Track	DMG	Width	Area	Boat	Water	Left	Right	Top	Middle	Bottom	Total	LCTotal	
2 R	2:10:56 PM	0:02:58	86.4	450.67	441.85	454.97	6,713.1	2.532	0.015	-0.03	0.23	6.50	79.23	16.47	102.409	--	77.4
3 L	2:15:16 PM	0:02:50	87.3	448.50	440.02	453.14	6,773.3	2.638	-0.022	-0.03	1.70	-9.03	102.98	-38.40	148.738	--	69.2
4 R	2:18:25 PM	0:02:51	86.6	453.38	445.45	458.57	6,996.5	2.651	0.006	0.10	0.25	3.25	23.32	15.55	42.471	--	54.9
5 L	2:21:38 PM	0:02:55	87.5	447.54	439.37	452.49	6,797.1	2.557	0.004	0.37	0.47	4.64	25.46	-3.86	27.078	--	94.0
	Mean		86.9	450.02	441.68	454.80	6,820.0	2.595	0.001	0.10	0.66	1.34	6.26	-2.56	5.805	0.000	73.9
	Std Dev		0.5	2.25	2.36	2.36	106.4	0.051	0.014	0.16	0.61	6.10	66.93	22.23	93.559	0.000	14.1
	COV		0.0	0.005	0.005	0.005	0.016	0.020	16.513	1.620	0.913	4.551	10.693	-8.688	16.116	0.000	0.191

Exposure Time: 0:11:34

Tr2=20110603141055.riv; Tr3=20110603141515.riv; Tr4=20110603141824.riv; Tr5=20110603142137.riv;

Comments
Tr2=20110603141055.riv - ; Tr3=20110603141515.riv - ; Tr4=20110603141824.riv - ; Tr5=20110603142137.riv - ;

Compass Calibration
File Name: CompassCal20110603140549.txt
Results: PASS
Score is excellent.
Magnetic interference is very low.
Calibration score: M2.00Q9

System Test
Not Loaded

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

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