

9-275-1	07/08/09	U.S. DEPARTMENT OF THE INTERIOR <i>U.S. Geological Survey</i>			Meas. No.	57
Station Number		ADCP Discharge Measurement Notes			Processed by	BLL
05551540					Checked by	KAO
Station Name		Fox River at Montgomery, IL				
Date	July 6, 2004	Party	B.L. Loving, S.E. Anderson			
Width	Area / Rated Area	Velocity	Index	Gage Height	Discharge	
235	707	1.90		11.74	1,340	
Gage Height Change		Meas. plots	From rating	Indicated Shift	ADCP Sync'd to WT	
0.00 in 0.4 hrs.		4.4% diff	No.: 11	0.0	<input checked="" type="radio"/> at 1207 or N	
ADCP Mfr / Model / Frequency			Serial No.	Firmware	Software	
RDI Rio Grande 1200			1636	10.16	WinRiver II v. 2.07	
Boat/Motors Used		GPS Used	ADCP Depth	Diag. Test / Errors?		
OceanScience Tethered		Trimble AgGPS	0.27 ft	<input checked="" type="checkbox"/> Y or <input type="checkbox"/> N		
Compass Calib. & Total Error		Mag. Var	MagVar Method		Moving Bed?	
<input checked="" type="radio"/> or N		0.8	-2.4	On-site <input checked="" type="radio"/> Model Previous	Y or <input type="checkbox"/> N	
Meas. Water Temp	ADCP Water Temp	Weather / Air Temp		Wind Speed / Dir.		
26.5 °F <input checked="" type="radio"/> at 1210	26.5°F <input checked="" type="radio"/> at 1210	Sunny/clear 85 <input checked="" type="radio"/> F / C		Southerly @ 5-10 mph		
Gage Readings				Site Conditions		
Time	Start End	Primary reference	CR10	Staff	Max Water Depth	
1100		11.74	11.70	11.70	10 ft	
1230			11.70	±0.05	Max Water Speed	
1249	(S)		11.70		2.5 ft/s	
1300			11.70		Max Boat Speed	
1315	(F)		11.70		1 ft/s	
					Water Mode	
					12	
					Bottom Mode	
					5	
					Streambed material	
					Gravel	
					Salinity	
				±0.05	--- ppt at	
Weighted MGH	11.74				Checkbar found	22.41
GH corrections	Checkbar changed to:					
Correct MGH	11.74				--- at ---	
Wading, cable, ice, boat, upstr., downstr., side bridge		1500	<input checked="" type="radio"/> ft, mi. upstr. <input checked="" type="radio"/> downstr. of gage			
Measurement rated:	excellent (2%) <input checked="" type="radio"/> good (5%) fair (8%), poor (>8%)			based on following conditions		
Flow	Steady & uniform. Flow at edges appears to be moving in DS direction					
Cross section:	Sand and Gravel with some mud					
Control:	Dam is clear of debris					
Gage operating:	<input checked="" type="radio"/> or N	Record removed:	<input type="radio"/> or <input checked="" type="radio"/> N	Filename:	Telephone telemetry	
Battery voltage	12.5 V		Intakes/Orifice cleaned/purged:	No		
Bubble-gage psi:	Tank	---	Line	---	Bubble rate	
					--- / min	
Extreme-GH indicators:	Max	---	Min	---	CSG Checked	
					<input checked="" type="radio"/> or N	
HWM on stick	None		Ref elev.	12.65	HWM elevation	
					None	
GH of zero flow = GH	---	- depth at control	---	=	---	
					ft, Uncertainty ± ---	
Sheet No.		1	of	1	sheets	