

9-275-1	07/08/09	U.S. DEPARTMENT OF THE INTERIOR U.S. Geological Survey				Meas. No.	
Station Number						Processed by	
ADCP Discharge Measurement Notes						Checked by	
Station Name		Mud Ditch nr. New Madrid, MO					
Date		6/12, 20	12	Party		SMM JMH	
Width	Area / Rated Area	Velocity	Index	Gage Height	Discharge		
135	1,930	2.46			4,740		
Gage Height Change		Meas. plots	From rating	Indicated Shift	ADCP Sync'd to W		
in hrs.		% diff	No.:		Y at or N		
ADCP Mfr / Model / Frequency			Serial No.	Firmware	Software		
RDF 8426 600			8426	10.17	2.07		
Boat/Motors Used			GPS Used	ADCP Depth	Diag. Test / Errors?		
T-Boat 1731			NO	0.3	Y or (N)		
Compass Calib. & Total Error		Mag. Var	MagVar Method		Moving Bed?		
(Y) or N			On-site Model Previous		Y or (N)		
Meas. Water Temp		ADCP Water Temp	Weather / Air Temp		Wind Speed / Dir.		
°F / C at		°F / C at	°F / C				
Gage Readings					Site Conditions		
Time	Start End	Primary reference			Max Water Depth	24.0	
	083				Max Water Speed	4.58	
0836	5				Max Boat Speed		
					Water Mode	12	
					Bottom Mode	5	
					Streambed material		
08:41 E					Mud		
					Salinity		
					ppt at		
Weighted MGH					Checkbar found		
GH corrections					Checkbar changed to:		
Correct MGH					at		
Wading, cable, ice, boat, upstr. downstr., side bridge HWY WW ft., mi. upstr., downstr. of gage							
Measurement rated:		excellent (2%) good (5%) fair (8%), poor (>8%)				based on following conditions	
Flow	Even						
Cross section:							
Control:	Channel; Clear						
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,	Uncertainty	±		
Sheet No.				of	sheets		

Acoustic Profiler Discharge Measurement Notes							Filename Prefix:	
Left Bank:	<div>Sloping</div> <div>Vertical</div> <div>Other: _____</div>					Right Bank:	<div>Sloping</div> <div>Vertical</div> <div>Other: _____</div>	
Transect No.	Starting			Ending		Total Discharge	Notes	
	Bank	Time	Distance	Distance	Time			
001	<div>L</div> R	0836	31	29	0837	4,772		
002	L <div>R</div>	0837	28	31	0838	4,704		
003	<div>L</div> R	0838	31	28	0839	4,841		
004	L <div>R</div>	0840	28	31	0841	4,650		
	L R							
	L R							
	L R							
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	L R							
Notes								

Party: SMM JMH	Width: 135 ft	Processed by: SMM
Boat/Motor: 1731	Area: 1,930 ft ²	Mean Velocity: 2.46 ft/s
Gage Height: 0.00 ft	G.H.Change: 0.000 ft	Discharge: 4,740 ft ³ /s

Area Method: Avg. Course	ADCP Depth: 0.300 ft	Index Vel.: 0.00 ft/s	Rating No.: 1
Nav. Method: Bottom Track	Shore Ens.:10	Adj.Mean Vel: 0.00 ft/s	Qm Rating: G
MagVar Method: None (0.0°)	Bottom Est: Power (0.1667)	Rated Area: 0.000 ft ²	Diff.: 0.000%
Depth Sounder: Not Used	Top Est: Power (0.1667)	Control1: Unspecified	
		Control2: Unspecified	
		Control3: Unspecified	

Screening Thresholds:		ADCP:	
BT 3-Beam Solution: YES	Max. Vel.: 4.58 ft/s	Type/Freq.: Rio Grande/600 kHz	
WT 3-Beam Solution: NO	Max. Depth: 24.0 ft	Serial #: 8426	Firmware: 10.17
BT Error Vel.: 0.33 ft/s	Mean Depth: 14.3 ft	Bin Size: 50 cm	Blank: 25 cm
WT Error Vel.: 3.50 ft/s	% Meas.: 54.88	BT Mode: 5	BT Pings: 1
BT Up Vel.: 1.00 ft/s	Water Temp.: None	WT Mode: 12	WT Pings: 1
WT Up Vel.: 4.00 ft/s	ADCP Temp.: 27.4 °C	WV : 175	WO : 6, 5
Use Weighted Mean Depth: YES			

Performed Diag. Test: YES
 Performed Moving Bed Test: YES
 Performed Compass Test: YES
 Meas. Location: D.S.S.B.

Project Name: Station_0.mmt
 Software: 2.07

Tr.#		Edge Distance		#Ens.	Discharge						Width	Area	Time		Mean Vel.		% Bad	
		L	R		Top	Middle	Bottom	Left	Right	Total			Start	End	Boat	Water	Ens.	Bins
001	L	31	28	117	618	2585	868	406	295	4772	133	1908	08:36	08:37	1.17	2.50	2	0
002	R	31	28	106	620	2578	888	423	194	4704	138	1928	08:37	08:38	1.34	2.44	2	0
003	L	31	28	107	636	2698	876	387	244	4841	135	1955	08:38	08:39	1.25	2.48	0	0
004	R	31	28	104	593	2547	847	458	203	4650	134	1928	08:40	08:41	1.36	2.41	1	0
Mean		31	28	108	617	2602	870	419	234	4742	135	1930	Total	00:04	1.28	2.46	1	0
SDev		0	0	6	17.6	66.2	17.3	30.3	46.1	83.2	2.0	19.2			0.09	0.04		
SD/M		0.00	0.00	0.05	0.03	0.03	0.02	0.07	0.20	0.02	0.02	0.01			0.07	0.02		

Remarks: