

~~363524089285900~~
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9-275-1	10/24/08	U.S. DEPARTMENT OF THE INTERIOR U.S. Geological Survey		Meas. No.	1
Station Number		ADCP Discharge Measurement Notes		Processed by	SS
363524089285900				Checked by	TK
Station Name NEW MADRID F.W. OUT FLOW					
Date	5-3-2011	Party	ESS/CSB	113,000	
Width	Area / Rated Area	Velocity	Index Vel.	Gage Height	Discharge
7380	108,000	1.22	-	-	132,000
Gage Height Change	Meas. plots	From rating	Shift	ADCP Sync'd to WT	
in hrs.	% diff	No.		0 at or N	
ADCP Mfr / Model / Frequency		Serial No.	Firmware	Software	
RD1 / R10 / 600		11170	10.16	2.07	
Boat/Motors Used		GPS Used	ADCP Depth	Diag. Test / Errors?	
NO WSC WORKS KIFF TIZIMP. AG.		1.4 / 1.8		Y or N	
Compass Calib. & Total Error		Mag. Var	MagVar Method	Moving Bed?	
Y or N		1.1	-1.6	On-site (Model) Previous	Y or N
Meas. Water Temp		ADCP Water Temp	Weather / Air Temp	Wind Speed / Dir.	
14.8 °F at		15.1 °F at	PC warm °F/C	10-20 NNW	
Gage Readings			Site Conditions		
Time			Inside	Outside	Max Water Depth
					44
					Max Water Speed
1711	(S)				Max Boat Speed
					Water Mode
1844	(F)				12
					Bottom Mode
					5
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	EVEN				
Cross section:	FAMILY EVEN				
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	

Measurements made at two different locations (363454 089285900 and 363524 089285900) and combined on this front sheet.

Station Number:

Meas. No:

Station Name: Lower Outflow at New Madrid

Date: 05/03/2011

Party: ESS/CSB

Width: 3,190 ft

Processed by: ESS

Boat/Motor: MO WSC Workskiff

Area: 57,800 ft²

Mean Velocity: 1.96 ft/s

Gage Height: 0.00 ft

G.H.Change: 0.000 ft

Discharge: 113,000 ft³/s

Area Method: Avg. Course

ADCP Depth: 1.400 ft

Index Vel.: 0.00 ft/s

Rating No.: 1

Nav. Method: DGPS

Shore Ens.: 10

Adj. Mean Vel: 0.00 ft/s

Qm Rating: F

MagVar Method: Model (-1.6°)

Bottom Est: Power (0.1667)

Rated Area: 0.000 ft²

Diff.: 0.000%

Depth Sounder: Not Used

Top Est: Power (0.1667)

Control1: Unspecified

Control2: Unspecified

Control3: Unspecified

Screening Thresholds:

BT 3-Beam Solution: YES

Max. Vel.: 8.39 ft/s

ADCP: Type/Freq.: Rio Grande/600 kHz

WT 3-Beam Solution: NO

Max. Depth: 44.2 ft

Serial #: 11170

Firmware: 10.16

BT Error Vel.: 0.33 ft/s

Mean Depth: 18.1 ft

Bin Size: 50 cm

Blank: 25 cm

WT Error Vel.: 3.50 ft/s

% Meas.: 59.92

BT Mode: 5

BT Pings: 1

BT Up Vel.: 1.00 ft/s

Water Temp.: 14.8 °C

WT Mode: 12

WT Pings: 1

WT Up Vel.: 7.00 ft/s

ADCP Temp.: 15.1 °C

WV: 175

WO: 1, 8'

Use Weighted Mean Depth: YES

Performed Diag. Test: NO

Project Name: LowerOutflow_0.mmt

Performed Moving Bed Test: NO

Software: 2.07

Performed Compass Test: YES

Meas. Location:

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
000 L	75	46	2365	23695	65901	19776	127	137	109537	3217	60363	17:11	17:28	3.62	1.81	0	1
001 R	46	43	3150	25664	69478	20907	196	139	116384	3164	55192	17:29	17:53	2.92	2.11	0	1
Mean	61	44	2757	24630	67689	20341	162	138	112961	3191	57777	Total	00:41	3.27	1.96	0	1
SDev	21	1	555	1463	2529	799	48.6	1.02	4042	38.1	3656.9			0.49	0.21		
SD/M	0.34	0.03	0.20	0.06	0.04	0.04	0.30	0.01	0.04	0.01	0.06			0.15	0.11		

Remarks: Section 1 of total outflow.

2 HSETS FOR
TRAFFIC
impossible: within flashing
- TK 1/3/12