

ADCP Discharge Measurement Notes

Mid Ditch nr. New Madrid, r
6/13, 2011 SMM JMH

135	1,950	2.15			4.19
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in	hrs.	% diff	No.:	At

RS-m9 1031A	1036	1.50	2.50
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Y-Boat 1115020	Hemisphert	0.3	<input checked="" type="checkbox"/> Y
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(Y) or N	-13	On-site Model Previous	Y or
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°F / C at	79.6	°F / C at		°F / C
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Time	Start End	Primary reference	
			Tapedown
			21.66
0739	<u>3</u>		<u>Q Time</u>
0749	<u>E</u>		0744 CST
			Mud
			ppt at
			at

Wading, cable, ice, boat, upstr. downstr., side bridge	ft., mi. upstr., downstr. o
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excellent (2%), good (5%), fair (8%), poor (>8%)

Five

Channel' Head

Y or N

Y or N

v

il

Discharge Measurement Summary

Date Measured: Monday, June 13, 2011

Site Information				Measurement Information				
Site Name		INFLOW OUTFLOW 2		Party		SMM JMH		
Station Number				Boat/Motor		1115020		
Location		D.S.S.B. HWY WW		Meas. Number				
System Information		System Setup				Units		
System Type	RS-M9	Transducer Depth (ft)		0.30		Distance	ft	
Serial Number	1036	Salinity (ppt)		0.0		Velocity	ft/s	
Firmware Version	1.50	Magnetic Declination (deg)		-1.3		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)	135.31	
Depth Reference	Bottom-Track	Right Method	Sloped Bank			Area (ft2)	1,949.7	
Coordinate System	ENU	Top Fit Type	Power Fit			Mean Speed (ft/s)	2.149	
		Bottom Fit Type	Power Fit			Total Q (cfs)	4,190.405	

Measurement Results																		
Tr		Time			Distance				Mean Vel		Discharge							%
#		Time	Duration	Temp.	Track	DMG	Width	Area	Boat	Water	Left	Right	Top	Middle	Bottom	Total	LCTotal	Measured
1	L	07:39:54 AM	0:03:44	79.3	132.80	122.37	132.37	1,980.0	0.593	2.195	10.88	3.67	322.88	2,993.81	1,014.35	4,345.581	--	68.9
2	R	07:43:55 AM	0:01:47	79.5	135.44	126.89	136.89	1,942.9	1.266	2.161	7.13	3.39	336.42	2,909.94	941.16	4,198.040	--	69.3
3	L	07:46:06 AM	0:01:48	79.7	134.41	127.70	137.70	1,943.4	1.245	2.073	6.65	3.40	301.36	2,792.59	925.29	4,029.279	--	69.3
4	R	07:48:10 AM	0:01:44	79.8	133.89	124.30	134.30	1,932.5	1.287	2.168	7.77	3.27	328.28	2,888.72	960.69	4,188.722	--	69.0
			Mean	79.6	134.13	125.31	135.31	1,949.7	1.098	2.149	8.10	3.43	322.23	2,896.27	960.37	4,190.405	0.000	69.1
			Std Dev	0.2	0.95	2.11	2.11	18.0	0.292	0.046	1.65	0.15	12.98	71.60	33.59	111.918	0.000	0.2
			COV	0.0	0.007	0.017	0.016	0.009	0.266	0.021	0.203	0.043	0.040	0.025	0.035	0.027	0.000	0.003

Exposure Time: 0:09:03

Tr1=20110613073954.riv; Tr2=20110613074356.riv; Tr3=20110613074605.riv; Tr4=20110613074810.riv;

Comments
Tr1=20110613073954.riv - ; Tr2=20110613074356.riv - ; Tr3=20110613074605.riv - ; Tr4=20110613074810.riv - ;

Compass Calibration
File Name: CompassCal20110613072857.txt
Results: PASS Score is excellent. Magnetic interference is very low.
Calibration score: M1.00Q9

System Test
File Name: SystemTest20110613073239.txt
System Test: PASS