

U.S. DEPARTMENT OF THE INTERIOR

9-275-1

REV (10-01)

Geological Survey

Water Resources Division

Sta No 365630089066 Acoustic Profiler Discharge Measurement NotesCk'd by REMeas. No. 2Processed by RASta Name MISSISSIPPI RIVER BELOW BREACHDate 5/4 2011 Party RA/CRWidth 6290 Area 291,333 Vel 5.74 GH 11,101,000Profiler Water Temp 15.2 °C at Rate areaProfiler S/N 1127 Mfr RD Freq 400 Firmware 10.11 Software Ver. 2.04Depth Cell Size 50 cm Other commands:No. of Cells 87Blanking Distance 25 cmWater Mode 1Ambiguity Vel. 234Water pings 1Bottom pings 1

Config. file

Deployment MANNED

Moving Bed

Moving Bed Present: Y N

Diag. Test

Diag. Test Errors: Y NGPS: ✓Boat/Motor Used QW WORKS KLEF ADCP Time to WT 3 @ 4 nodes Avg. 1.9 Comp. Cal: ✓Mag. Var. 1) 2 2) 3 3) 4 4) nodesSamples collected: water quality, sediment, biological, other: ✓Measurements documented on other sheets: water quality, aux/base gage, other: ✓

Rain gage serviced/calibrated

Weather RAINWind Spd. Dir.Air Temp °C at °C at °C at °C atWater Temp 15.2 °C at

Specific Cond:

Checkbar/chain found

Changed to at

Correct

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: UNUSUAL, SOME TURB.Cross section: UNUSUAL, SAND CHANNEL, TRUCKS, BENCH LEV.Control: UNUSUALGage operating: Record removed: Y or N Filename:Battery voltage: Intakes/Orifice cleaned/purged:Bubble-gage psi: Tank Line Bubble rate /minExtreme-GH indicators: max minCSG checked: HWM height on stick Refelev HWM elevRemarks: NO M.B. TEST DUE TO TIME CONSTRAINTSGH of zero flow = GH ft. - depth at control ft. rated ft.Sheet No. of sheets

Performed Moving Bed Test: NO

Performed Compass Test: YES

Meas. Location: below breach

Software: 2.04

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	R	340	60	1795	151299	1177573	256054	-2422	-858	1581646	6267	280632	13:47	14:05	5.89	5.64	4	9
001	L	340	95	975	100659	1444096	152138	-4552	-1354	1690987	6292	287357	14:05	14:15	10.56	5.89	0	2
002	R	339	95	1550	84088	1316985	136653	-4597	-1602	1531528	6295	263584	14:15	14:30	6.87	5.81	0	1
003	L	339	123	1126	97626	1415023	136433	-4467	-2031	1642585	6286	292224	14:30	14:41	9.39	5.62	0	2
Mean		339	93	1361	108418	1338419	170320	-4009	-1461	1611686	6285	280949	Total	00:53	8.18	5.74	1	3
SDev		1	26	378	29481	120231	57627	1060	490	69692	12.6	12514.8			2.17	0.13		
SD/M		0.00	0.28	0.28	0.27	0.09	0.34	0.26	0.34	0.04	0.00	0.04			0.26	0.02		

Remarks:

* - value not consistent for all transects