

## U.S. DEPARTMENT OF THE INTERIOR

9-275-1

REV (10-01)

Geological Survey  
Water Resources DivisionMeas. No. 5Processed by RACk'd by RASta. No. 2659390990461 Acoustic Profiler Discharge Measurement NotesSta. Name OHIO RV OVERFLOW ONLYDate 5/3 2011 Party RA/TLWidth 50.000 Area 664.000 Vel. 509 GH. 339.000 Disch. 339.000Profiler Water Temp 16.3 °C at Rated area Index VelocityProfiler S/N 6223 Mfr. RD1 Freq 1200 Firmware 10.17 Software Ver. 2.04Depth Cell Size 25 cm Other commands: MANVEDNo. of Cells 50Blanking Distance 25 cmWater Mode 12Ambiguity Vel. 175Water pings 1Bottom pings 1Boat/Motor Used 1 HUNDOIS KANADCP Time to WT 1 @ GPSMag. Var. 1) 2 2) 3 3) 4 mode 1 Avg. 1.6 Comp. Cal. ✓Samples collected: water quality, sediment, biological, other: ✓Measurements documented on other sheets: water quality, acoustic gage, other: ✓Rain gage serviced/calibrated ✓Weather RAINWind Spd DirAir Temp °C at °CWater Temp 16.3 °C at °CSpecific Cond: ✓Check bar/chain found ✓Changed to atCorrect ✓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 SLOW, UNEVENCross section: UNEVEN, TRAPS, BRUSHControl: CHANNELGage operating: Record removed: Y or N Filename RA/TLBattery voltage: Intakes/Orifice cleaned/purged:Bubble-gage psi: Tank Line, Bubble rate /min.Extreme-GH indicators: max minCSG checked: HWM height on stick Reflev HWM elev.Remarks: N.D. MEASUREMENT SET TEST DUE TO TIMEGH of zero flow = GH - depth at control = ft., rated ft.Sheet No. 1 of 1 sheets

Performed Moving Bed Test: NO

Performed Compass Test: NO

Map Location:

Software: 2.04

imt

Number:

Meas. No:

on Name: Ohio river overflow

Date: 05/03/2011

ty: RA/TL

Width: 30,000 ft

Processed by: RA

at/Motor: Illinois boat

Area: 668,000 ft<sup>2</sup>

Mean Velocity: 0.509 ft/s

age Height: 0.00 ft

G.H.Change: 0.000 ft

Discharge: 339,000 ft<sup>3</sup>/s

Area Method: Avg. Course

ADCP Depth: 1.350 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: U

MagVar Method: None (-1.6°)

Bottom Est: Power (0.1667)

Rated Area: 0.000 ft<sup>2</sup>

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.: 8.30 ft/s

Type/Freq.: Rio Grande/1200 kHz

WT 3-Beam Solution: NO

Max. Depth: 34.6 ft

Serial #: 6223

Firmware: 10.17

BT Error Vel.: 0.33 ft/s

Mean Depth: 22.2 ft

Bin Size: 25 cm

Blank: 25 cm

WT Error Vel.: 3.50 ft/s

% Meas.: 68.78

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.: 6.00 ft/s

ADCP Temp.: 16.8 °C

WV : 175

WO : 1, 6

Use Weighted Mean Depth: YES

Performed Diag. Test: YES

Project Name: Ohio river overflow\_0.mmt

Performed Moving Bed Test: NO

Software: 2.04

Performed Compass Test: NO

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
001	L	2500	132	14341	50852	233131	41173	10188	3613	338957	30036	668286	12:36	14:28	6.91	0.51	4	8
Mean		2500	132	14341	50852	233131	41173	10188	3613	338957	30036	668286	Total	01:52	6.91	0.51	4	8
SDev																slow		
SD/M																		

Remarks: