

Sheet No. 1 of 1 sheets

Discharge Measurement Summary

Date Measured: Thursday, June 09, 2011

Site Information		Measurement Information	
Site Name	Outflow	Party	JTL/ZWM
Station Number		Boat/Motor	Hydroboard
Location	DS side of Hwy WW bridge	Meas. Number	

System Information		System Setup		Units	
System Type	RS-M9	Transducer Depth (ft)	0.30	Distance	ft
Serial Number	1411	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 with LC	Left Method	Sloped Bank	Width (ft)	153.45
Depth Reference	Vertical Beam	Right Method	Sloped Bank	Area (ft2)	2,234.9
Coordinate System	ENU	Top Fit Type	Power Fit	Total Q (cfs)	6,884.196
		Bottom Fit Type	Power Fit		

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
2	L	10:10:49 AM	0:01:48	85.4	142.35	132.42	152.42	2,206.9	1.318	3.049	17.25	20.61	498.00	4,791.92	1,401.02	6,728.795	6,924.580	71.2
3	R	10:12:53 AM	0:01:45	85.2	143.38	136.36	156.36	2,241.2	1.366	3.025	6.12	13.82	512.74	4,851.68	1,394.70	6,779.068	6,963.013	71.6
4	L	10:14:57 AM	0:02:08	85.4	143.69	133.47	153.47	2,236.0	1.123	2.957	22.23	16.15	484.89	4,717.22	1,370.98	6,611.477	6,802.909	71.3
5	R	10:17:24 AM	0:01:59	85.1	145.34	131.56	151.56	2,255.6	1.221	2.958	29.06	16.05	503.21	4,715.09	1,409.14	6,672.542	6,846.284	70.7
			Mean	85.3	143.69	133.45	153.45	2,234.9	1.257	2.997	18.67	16.66	499.71	4,768.98	1,393.96	6,697.970	6,884.196	71.2
			Std Dev	0.1	1.07	1.81	1.81	17.7	0.093	0.041	8.37	2.46	10.06	56.90	14.22	62.560	63.024	0.3
			COV	0.0	0.007	0.014	0.012	0.008	0.074	0.014	0.448	0.148	0.020	0.012	0.010	0.009	0.009	0.005

Exposure Time: 0:07:40

Tr2=20110609101047.riv; Tr3=20110609101252.riv; Tr4=20110609101456.riv; Tr5=20110609101722.riv;

Comments
Tr2=20110609101047.riv - ; Tr3=20110609101252.riv - ; Tr4=20110609101456.riv - ; Tr5=20110609101722.riv - ;

Loop Method					
DMG	Loop Time	Moving Bed Velocity	Moving Bed Direction	Flow Direction	Estimated Percent Correction
11.84	167	0.07	61.96	252.96	2.28

File Name: Loop_20110609100736.riv

Percent Bad Bottom Track: 0.6.

Difference in flow direction between out and back sections: 3.4 deg.

Loop Indicates a Moving Bed

Compass Calibration

File Name: CompassCal20110609100504.txt

Results: PASS

Score is excellent.

Magnetic interference is very low.

Calibration score: M5.00Q9

System Test

File Name: SystemTest20110609100426.txt

System Test: PASS

Parameters and settings marked with a * are not constant for all files.

Report generated using SonTek RiverSurveyor Live v2.50

