

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT NOTES

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Sta. No. _____ Aiken Creek _____ Meas. No. _____
 Date 1/16/07, 1907 Party ESG _____
 Width 11.7 Area 2.9 Vel. .228 G. H. _____ Disch. .662
 Method _____ No. secs. _____ G. H. change _____ in _____ hrs. Susp. _____
 Method coef. _____ Hor. angle coef. _____ Susp. coef. _____ Meter No. _____
 Type of meter _____ Date rated _____ Tag checked _____
 Meter _____ ft. above bottom of wt. Spin before meas. _____ after _____
 Meas. plots _____ % diff. from _____ rating. Levels obtained _____

GAGE READINGS					WATER QUALITY MEASUREMENTS		
Time	Inside		Outside	No	Yes	Time	
1850	1.444		460	T=28	<input checked="" type="checkbox"/>	21-8.6	
1905	1.460		460	SL=157.1	<input checked="" type="checkbox"/>	1855	
1920	1.501		460	EDI _____	EWI _____	Other _____	
				SEDIMENT SAMPLES			
				No _____	Yes _____	Time _____	
				Method Used _____			
				EDI _____	EWI _____	Other _____	
				BIOLOGICAL SAMPLES			
				Yes _____	Time _____		
				No _____	Type _____		

Weighted M.G.H. _____
 G.H. correction _____
 Correct M.G.H. _____
 Check bar. chain found _____ changed to _____ at _____
 Wading, cable, ice, boat, upstr., downstr., side bridge _____ feet, mile, above, below gage.
 Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:
 Flow uniform
 Cross section sand & gravel
 Control clear, most flows thru flume - trickle over weir
 Gage operating yes Weather cloudy, flurries
 Intake/Orifice cleaned no Air _____ °C@ _____ Water _____ °C@ _____
 Record removed _____ Extreme Indicator: Max. _____ Min. _____
 Nitrogen Pressure Tank 1700 Feed 10 Bbl rate _____ per min.
 CSG checked _____ Stick reading _____
 Observer _____
 HWM _____ outside, in well _____
 Remarks _____

ANGLE COEF- FICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVA- TION DEPTH	REVO- LUTIONS	TIME IN SEC- ONDS	VELOCITY		ADJUST- ED FOR HOR. ANGLE OR -----	AREA	DISCHARGE .80
							AT POINT	MEAN IN VER- TICAL			
	12.8	LEW @			1905						
	13.8	1	.22		3	40	.103			.22	.023 .85
	14.8	1	.25		10	43	.255			.25	.064
	15.8	.75	.31		10	44	.249			.2325	.058
	16.3	.5	.38		25	41	.617			.19	.117 .90
	16.8	.5	.38		25	43	.590			.19	.112 .92
	17.3	.75	.33		15	48	.331			.2475	.082 .94
	18.3	1	.37		7	40	.199			.37	.074 .96
	19.3	1	.31		5	40	0			.31	0 .97
	20.3	.75	.26		5	40	.151			.15	.023 .98
	20.8	.75	.22		25	47	.542			.165	.089 .99
	21.8	1	.19		3	40	.103			.19	.020 .99
	22.8	1	.20		0	40	0			.20	0
	23.8	.85	.22		0	40	0			.187	0
○	24.5	REW @			1920						1.00
	11.7						.228			2.9	.662
	* 6 @ 1920						equipment:				.99
	1) 1.501 ST						- new SC probe				.98
	2) 3.0 AT						- no T probe				.97
	3) 165.4 SC						- onfile, N, conoflow				.96
	4) 13.6 BV						- acubar PT				.94
							- CR10X				.92
							- CR10X wing panel				.90
											.85
											.80