

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

50

Sta. No. _____

Aiken Creek

Meas. No. _____

Comp. by _____

Checked by CHW

Date 1/24/07, 1907 Party ESG

Width 11.8 Area 3.14 Vel. 0.47 G. H. _____ Disch 1.48

Method _____ No. secs. 11 G. H. change _____ in _____ hrs. Susp. _____

Method coef. _____ Hor. angle coef. _____ Susp. coef. _____ Meter No. _____

Type of meter pygmy Date rated _____ Tag checked _____

Meter _____ ft. above bottom of wt. Spin before meas. OK after OK

Meas. plots _____ % diff. from _____ rating. Levels obtained _____

GAGE READINGS

WATER QUALITY MEASUREMENTS

Time	Inside	Outside
<u>1735</u>	<u>1.551</u>	<u>1.60 ± .0</u>
<u>1755</u>	<u>1.589</u>	<u>1.61 ± .0</u>

No Yes _____ Time 1800
 WT = 18 Samples Collected ph=8.98
 No Yes _____ Time 1800
 Method Used _____
 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, operating fine, flow thru flume + weir

Gage operating yes Weather clear, up-v wind

Intake/Orifice cleaned no Air _____ °C@ _____ Water _____ °C@ _____

Record removed yes Extreme Indicator: Max. _____ Min. _____

Nitrogen Pressure Tank 1800 Feed 10 Bbl rate _____ per min.

CSG checked _____ Stick reading _____

Observer _____

HWM _____ outside, in well _____

Remarks switched SMS, closed gage

*0 @ 180.5 1) 1.605 2) 1.986 AT 3) 196.3 SC

4) 13.6 BU

G.H. of zero flow _____ ft. Sheet No. _____ of _____ sheets

ANGLE COEF-FICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVATION DEPTH	REVO-LUTIONS	TIME IN SEC-ONDS	VELOCITY		ADJUST-ED FOR HOR. ANGLE OR	AREA	DISCHARGE
							AT POINT	MEAN IN VER-TICAL			
	12.0		LEW		@ 17	35					
	13.0	1	.25		20	46	449			.25	0.112
	14.0	1	.28		25	49	521			.28	0.146
	15.0	1	.32		40	48	832			.32	0.266
	16.0	1	.40		40	50	800			.40	0.32
	17.0	1	.34		20	48	431			.34	0.147
	18.0	1	.38		10	51	220			.38	0.084
	19.0	1	.24		3	40	103			.24	0.025
	20.0	1	.24		40	47	849			.24	0.204
	21.0	1	.22		15	46	344			.22	0.076
	22.0	1	.24		15	47	338			.24	0.081
	23.0	.9	.25		0	40	0			.225	0
	23.8		REW		@ 17	50					
0	11.8						0.47			3.14	1.46