

FSA, in

Form 9-275-G
(July 1994)

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

Sta. No. _____ AIKEN CREEK
@ FS
Date 12/19, 19 96 Party OK, NB
Width 14.2 Area 2.4 Vel. 0.890 G. H. 1.64 Disch 2.14
Method .6 No. secs. 33 G. H. change .02 ~~ft~~ 1/2 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. after
Meas. plots _____ % diff. from _____ rating. Levels obtained _____

| GAGE READINGS | | | | |
|-----------------|-------------|--|---------------|--------------|
| Time | Inside | | | Outside |
| | | | <u>g</u> | |
| | | | <u>Tap up</u> | |
| | <u>CR10</u> | | <u>from</u> | <u>stage</u> |
| <u>1030</u> | <u>1.65</u> | | <u>.59</u> | <u>.63</u> |
| <u>11:08</u> | <u>1.67</u> | | <u>.64</u> | <u>.65</u> |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Weighted M.G.H. | | | | |
| G.H. correction | | | | |
| Correct M.G.H. | | | | |

WATER QUALITY MEASUREMENTS

No _____ Yes _____ Time _____
Samples Collected _____
No _____ Yes _____ Time _____
Method Used _____
EDI _____ EWI _____ Other _____

SEDIMENT SAMPLES

No _____ Yes _____ Time _____
Method Used _____
EDI _____ EWI _____ Other _____

BIOLOGICAL SAMPLES

Yes _____ Time _____
No _____ Type _____

Check bar. chain found _____ changed to _____ at _____
Wading, cable, ice, boat, upstr. downstr., side bridge 300 feet, mile, above, below gage.
Measurement rated excellent (2%), good (5%), fair (8%) poor (over 8%); based on the following cond:
Flow Steady
Cross section soft sand, gravel, cobbles
Control clear, flow over low point in weir
Gage operating Weather _____
Intake/Orifice cleaned _____ Air _____ °C@ _____ Water _____ °C@ _____
Record removed _____ Extreme Indicator: Max. _____ Min. _____
Nitrogen Pressure Tank _____ Feed _____ Bbl rate _____ per min.
CSG checked _____ Stick reading _____
Observer _____
HWM _____ outside, in well _____
Remarks _____

River at-

| 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 |
|--------------------|--------------------------|-------|-------|--------------------|--------------|------------------|----------|-------------------|-----------------------------|------|-----------|
| | | | | | | | AT POINT | MEAN IN VER-TICAL | | | |
| 1.0 | LEW @ | | 1035 | .6 | | | | | | | |
| | 2.8 | | 0 | | 0 | 40 | | | | | .85 |
| | 3.0 | | 0.05 | | 0 | 40 | | | | | |
| | 3.4 | | 0.10 | | 18 | 40.6 | | | | | |
| | 3.8 | | 0.1 | | 18 | 40.8 | | | | | .90 |
| | 4.0 | | .2 | | 31 | 48 | | | | | .92 |
| | 4.3 | | .2 | | 29 | 47 | | | | | .94 |
| | 4.8 | | .15 | | 52 | 47 | | | | | .96 |
| | 5.0 | | .15 | | 29 | 40.9 | | | | | .97 |
| | 5.3 | | .15 | | 47 | 40.0 | | | | | .98 |
| | 5.6 | | .15 | | 39 | 42.5 | | | | | .99 |
| | 6.0 | | .30 | | 52 | 40.3 | | | | | |
| | 6.3 | | .30 | | 50 | 40.0 | | | | | |
| | 6.6 | | .20 | | 44 | 40.2 | | | | | |
| 0 | 7.0 | | .3 | | 56 | 40.4 | | | | | 1.00 |
| | 7.3 | | .3 | | 56 | 40.0 | | | | | |
| | 8.0 | | .2 | | 38 | 40.4 | | | | | |
| | 8.3 | | .25 | | 46 | 40.0 | | | | | .99 |
| | 8.6 | | .3 | | 40 | 40.5 | | | | | .98 |
| | 9.0 | | .3 | | 39 | 40.7 | | | | | .97 |
| | 9.3 | | .3 | | 40 | 40.4 | | | | | .96 |
| | 9.6 | | .25 | | 38 | 40.8 | | | | | |
| | 10.0 | | .2 | | 42 | 40.5 | | | | | .94 |
| | 10.5 | | .2 | | 13 | 40.6 | | | | | .92 |
| | 11.0 | | .2 | | 28 | 40.5 | | | | | .90 |
| | 11.5 | | .2 | | 30 | 40.8 | | | | | |
| | 12 | | .2 | | 30 | 40 | | | | | .85 |
| | 12.5 | | .2 | | 30 | 39.6 | | | | | |
| | 13 | | .1 | | 32 | 40.6 | | | | | |
| | 13.5 | | .2 | | 20 | 41.3 | | | | | .80 |
| | 14 | | .15 | | 19 | 40.3 | | | | | |
| | 14.5 | | .10 | | 19 | 40.2 | | | | | |

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey

Form 9-275-D
(Jan. 1988)

WATER RESOURCES DIVISION

Date Dec 19, 1996

MISCELLANEOUS FIELD NOTES

Aiken Cr @ F5

ALL CLEAR

① 1005

| | <u>CR10</u> | <u>Field</u> |
|--------------|-------------|--------------------------|
| <u>STAGE</u> | <u>1.65</u> | <u>1.04 + .62 = 1.66</u> |
| <u>WT</u> | <u>2.3</u> | <u>1.6</u> |
| <u>SC</u> | <u>209</u> | <u>197</u> |
| <u>PH</u> | | <u>7.9</u> |

Took chemistry

Discharge measurement

0.28' OVER 1st ROW PZF WEIR

0.15' " 2nd ROW PZF WEIR