

U.S. DEPARTMENT OF THE INTERIOR

U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT AND
GAGE INSPECTION NOTES

Meas. No. _____

Comp. by JD

Checked by ANW

Sta. No. _____

Sta. Name Arken @ F5 OLD SITE

Date 18 Dec, 20 12 Party ANW + JD

Width 20.00 Area 3.402 Vel. 0.88 G. H. 0.72 Disch. 2.99

Method Flow Tracker No. secs. _____ G. H. change _____ in _____ hrs.

Method coef. _____ Horiz. angle coef. _____ Susp. _____ Tags checked _____

Meter Type _____ Meter No. _____ Meter _____ ft. above bottom of wt.

Rating used _____ Spin test before meas. _____ ; after _____

Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS					
Time				Inside	Outside
1315	LEW			1.74	0.72
1320	Start				
	REW				
1405	Finish			1.80	0.72
Weighted MGH					
GH correction					
Correct MGH					

Samples collected: water quality, sediment, biological, other _____

@ 1400

Measurements documented on separate sheets: water quality, aux./base gage, other _____

Rain gage serviced/calibrated _____

Weather: cloudy, cool

Air Temp. _____ °C at _____

Water Temp: _____ °C at _____

Check bar/chain found _____

Changed to _____ at _____

Correct _____

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: _____

Cross section: upstream of flume, shallow, wide sand bottom

Gage operating: _____ Record Removed _____

Battery voltage: _____ Intake/Orifice cleaned/purged: _____

Bubble-gage pressure, psi: Tank _____, Line _____; Bubble-rate _____ /min.

Extreme-GH indicators: max _____, min _____.

CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____

HWM inside/outside: _____

Control: _____

Remarks: _____

GH of zero flow = GH _____ - depth at control _____ = _____ ft., rated _____

U.S. DEPARTMENT OF THE ARMY
 SITE VISIT NOTES

Aiken @ FS (OLD)

18 December 2012

Arrive w/ JP @ 1312

- cloudy, cool, breezy
- FLOWING!

Fl @ 1315 OG @ 1315

st 1.74 0.72 ± 0.001' gage staff reading

wt 8.06 9.6

vnd 71.94 71.1

AT 5.05

BY 13.75

WQ @ 1400
 $SC_m = 71.1 \text{ m/s/cm}$
 $T_m = 9.6^\circ\text{C}$

JP computed flowTracker measurement

$Q = 2.99$ REW @ 1405

see DISCHARGE NOTES

Fl @ 1403 OG @ 1403

1.80 0.72 ± 0.001

by ANW