

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

Meas. No. 46  
Comp. by JDW  
Checked by \_\_\_\_\_  
File: anderson 010102

Sta. No. \_\_\_\_\_  
Sta. Name Anderson  
Date JAN 01, 2002 Party LT JW  
Width 10.0 Area 2.78 Vel. 1.94 G.H. \_\_\_\_\_ Disch. 5.38  
Method .6 No. secs. 13 G.H. change \_\_\_\_\_ in \_\_\_\_\_ hrs.  
Method coef. 1.0 Horiz. angle coef. 1.0 Susp. ROD Tags checked \_\_\_\_\_  
Meter Type pygmy Meter No. 800923 Meter \_\_\_\_\_ ft. above bottom of wt.  
Rating used 6/99 Spin test before meas. 1'19"; after O.K.  
Meas. plots \_\_\_\_\_ % diff. from rating no. \_\_\_\_\_ Indicated shift \_\_\_\_\_

GAGE READINGS						
Time	WT	SC			Inside	Outside
16:40	0.96	27.19			2.47	1.36
17:00					2.44	1.36
16:45	Start					
16:51	Finish					
Weighted MGH						
GH correction						
Correct MGH						

Samples collected: water quality, sediment, biological, other \_\_\_\_\_  
Measurements documented on separate sheets: water quality, aux./base gage, other \_\_\_\_\_  
Rain gage serviced/calibrated \_\_\_\_\_  
Weather: Clear, sunny, warm  
Air Temp. \_\_\_\_\_ °C at \_\_\_\_\_  
Water Temp. \_\_\_\_\_ °C at \_\_\_\_\_  
Check bar/chain found \_\_\_\_\_  
Changed to \_\_\_\_\_ at \_\_\_\_\_  
Correct \_\_\_\_\_

Wading cable, ice, boat, upstr., downstr., side bridge, 20 ft. mi. upstr., downstr. of gage.  
Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following conditions: Flow: irregular, uneven  
Cross section: med. to coarse cobble, poorly sorted

Gage operating: \_\_\_\_\_ Record Removed \_\_\_\_\_  
Battery voltage: 13.38 Intake/Orifice cleaned/purged: \_\_\_\_\_  
Bubble-gage pressure, psi: Tank 1700, Line 15; Bubble-rate 65 /min.  
Extreme-GH indicators: max \_\_\_\_\_, min \_\_\_\_\_  
CSG checked: \_\_\_\_\_ HWM height on stick \_\_\_\_\_ Ref. elev. \_\_\_\_\_ HWM elev. \_\_\_\_\_  
HWM inside/outside: \_\_\_\_\_  
Control: flume + weir - clear

Remarks: New overflow working

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

Date JAN 1, 2002

## MISCELLANEOUS FIELD NOTES

ANDERSEN CREEK @ 411

CJ

• Clear, Down-valley wind, warm

• Flowing

#6 @ 1505

OG

stage 2.41

1.29

AT 11.0

WT 1.1

WT<sub>m</sub> 1.1°C

SC 27.1

C<sub>m</sub> 5.3

volts 13.4

$$\boxed{SC_m = 9.6}$$

Stream Chem @ 1515

• Purged line (feed was @ 35 psi)

#6 @ 1515

OG

stage 2.37

1.29

GAGE ID# 00000009  
 DATE 01/01/2002  
 TRANSECT 05  
 USER ID# 7237  
 SH BEGIN 0.00  
 SH END 0.00  
 GH BEGIN 0.00  
 GH END 0.00  
 EST. DISCHARGE 0.00  
 EST. Q (ADJ) 5.38  
 METER ID# 000000  
 AQUACALC ID# 671  
 SOUNDING WT. 0  
 START MEAS. AT LEW  
 METER TYPE Pygmy ST2  
 METER CONST. C1 0.9604  
 METER CONST. C2 0.0312  
 METER CONST. C3 0.9604  
 METER CONST. C4 0.0312  
 METER CONST. C5 0.0  
 MEASUREMENT TIME 40  
 MEAS. SYSTEM SAE  
 PERCENT SLOPE 0.00  
 TOTAL VERTICALS 13  
 TOTAL STATIONS 13  
 TOTAL WIDTH 10.00  
 TOTAL AREA 2.78  
 TOTAL DISCHARGE 5.380  
 PCT DIFFERENCE 0.0  
 MEAN VELOCITY 1.94  
 WETTED PERIMETER 10.08  
 HYDRAULIC RADIUS 0.28  
 MANNING FACTOR 0.00

OB	DIST	DEPTH	ICE	REVS	TIME	COS:VF	LOC	COEF	CLOCK	VEL	AREA	FLOW(Q)	FLAGS
1	4.00	0.00	0.00	0	0.0	1.00	6	1.00	16:45	0.000	0.000	0.000	
2	5.00	0.30	0.00	47	19.7	1.00	6	1.00	16:45	2.322	0.300	0.697	1
3	6.00	0.40	0.00	28	22.5	1.00	6	1.00	16:46	1.226	0.400	0.490	1
4	7.00	0.36	0.00	41	21.1	1.00	6	1.00	16:47	1.897	0.360	0.683	1
5	8.00	0.20	0.00	37	19.9	1.00	6	1.00	16:47	1.817	0.200	0.363	1 3
6	9.00	0.30	0.00	55	22.4	1.00	6	1.00	16:48	2.389	0.225	0.538	1
7	9.50	0.36	0.00	53	20.5	1.00	6	1.00	16:48	2.514	0.180	0.453	1
8	10.00	0.40	0.00	46	20.6	1.00	6	1.00	16:49	2.176	0.200	0.435	1
9	10.50	0.40	0.00	48	21.9	1.00	6	1.00	16:50	2.136	0.200	0.427	1
10	11.00	0.42	0.00	36	19.8	1.00	6	1.00	16:50	1.777	0.315	0.560	1
11	12.00	0.20	0.00	42	20.0	1.00	6	1.00	16:51	2.048	0.200	0.410	1 3
12	13.00	0.20	0.00	33	20.1	1.00	6	1.00	16:51	1.608	0.200	0.322	1 3
13	14.00	0.00	0.00	0	0.0	1.00	6	1.00	0:00	0.000	0.000	0.000	

1. USER EXCEEDED SINGLE SUBSECTION 05% EST. Q.
2. THE PRODUCT OF VELOCITY AND DEPTH EXCEEDED THE SELECTED SOUNDING WEIGHT.
3. INCORRECT METER USED FOR DEPTH OF STREAM.
4. INCORRECT METER USED FOR VELOCITY OF STREAM.
5. ABNORMAL VELOCITY PROFILE CALCULATED.
6. DEPTH ESTIMATED BY USER.
7. VELOCITY ESTIMATED BY USER.
8. TURBULENT VELOCITY MEASURED