

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

Meas. No. (45)
Comp. by JOW
Checked by _____

Sta. No. _____
Sta. Name ANDERSEN CREEK @ H1
Date Dec 31, 2001 Party CJ, LT, JW, TN
Width 9.60 Area 3.02 Vel. 2.06 G.H. _____ Disch. 6.22
Method 16 No. secs. 18 G.H. change _____ in _____ hrs.
Method coef. 1.0 Horiz. angle coef. 1.0 Susp. 200 Tags checked _____
Meter Type pygmy Meter No. 8609223 Meter _____ ft. above bottom of wt.
Rating used 6/99 Spin test before meas. 1' 19"; after 6.557
Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS

Time					Inside	Outside
1830	Start					1.40
1845					2.53	1.40
1900	Finish				2.49	1.40
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 - warm - calm

Air Temp. _____ °C at _____

Water Temp. _____ °C at _____

Check bar/chain found _____

Changed to _____ at _____

Correct _____

Wading, cable, ice, boat, upstr., downstr., side bridge, 15 ft. mi. upstr., downstr. of gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following

conditions: Flow: irregular uneven flow due to poorly sorted channel

Cross section: poorly sorted med - coarse cobble, sand

Gage operating: yes 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: flume and weir / new overflow built.

Remarks: NEW RATING / NEW OVERFLOW. 1st Qm
made w/ new control!

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

Sheet No. _____ of _____ sheets

GAGE ID# 00000009
 DATE 12/31/2001
 TRANSECT 04
 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) 6.22
 METER ID# 80092
 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 18
 TOTAL STATIONS 18
 TOTAL WIDTH 9.60
 TOTAL AREA 3.02
 TOTAL DISCHARGE 6.220
 PCT DIFFERENCE 0.0
 MEAN VELOCITY 2.06
 WETTED PERIMETER 9.68
 HYDRAULIC RADIUS 0.31
 MANNING FACTOR 0.00

OB	DIST	DEPTH	ICE	REVS	TIME	COS:VF	LOC	COEF	CLOCK	VEL	AREA	FLOW(Q)	FLAGS
1	2.00	0.00	0.00	0	0.0	1.00	6	1.00	18:45	0.000	0.000	0.000	
2	3.00	0.20	0.00	62	40.2	1.00	6	1.00	18:45	1.512	0.150	0.227	3
3	3.50	0.10	0.00	18	20.2	1.00	6	1.00	18:47	0.887	0.050	0.044	3
4	4.00	0.20	0.00	49	19.9	1.00	6	1.00	18:48	2.396	0.100	0.240	3
5	4.50	0.40	0.00	99	40.1	1.00	6	1.00	18:49	2.402	0.200	0.480	1
6	5.00	0.38	0.00	93	40.0	1.00	6	1.00	18:50	2.264	0.190	0.430	1
7	5.50	0.38	0.00	89	40.2	1.00	6	1.00	18:51	2.157	0.190	0.410	1
8	6.00	0.38	0.00	29	41.8	1.00	6	1.00	18:52	0.697	0.190	0.132	
9	6.50	0.40	0.00	54	40.6	1.00	6	1.00	18:52	1.309	0.200	0.262	
10	7.00	0.40	0.00	127	40.1	1.00	6	1.00	18:53	3.073	0.200	0.615	1 4
11	7.50	0.50	0.00	156	40.1	1.00	6	1.00	18:54	3.767	0.225	0.848	1 4
12	7.90	0.54	0.00	69	20.4	1.00	6	1.00	18:56	3.280	0.216	0.708	1 4
13	8.30	0.50	0.00	118	40.2	1.00	6	1.00	18:57	2.850	0.225	0.641	1
14	8.80	0.40	0.00	46	40.7	1.00	6	1.00	18:58	1.117	0.200	0.223	
15	9.30	0.40	0.00	39	40.6	1.00	6	1.00	18:59	0.954	0.200	0.191	
16	9.80	0.36	0.00	42	20.1	1.00	6	1.00	19:00	2.038	0.216	0.440	1
17	10.50	0.30	0.00	49	40.2	1.00	6	1.00	19:01	1.202	0.270	0.325	1
18	11.60	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