Form 9-275F
(Apr. 2001)

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

Meas. No. 48
Comp. by ______
Checked by ______

J-Day 363

Sta. No. ______
Sta. Name HI- Andersen
Date Dec 29, 2002 Party JG, PS, LH, JB, FC
Width ______ Area ______ Vel. ______ G.H. ______ Disch. ______
Method ______ 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 ft Staff plate

Time			Pygmy cfs	OG corxn	Inside	Outside
17:07				1.51		0.51
	Start					
17:18				1.53		0.53
18:20				1.52		0.52±.01
18:23					5.826 ✓	
	Finish					
19:17				1.49		0.49
Weighted MGH						
GH correction						
Correct MGH						

Samples collected: water quality, @ 19:05 sediment, biological, other ______
Measurements documented on separate sheets: water quality, aux./base gage, other ______
Rain gage serviced/calibrated ______
Weather: ______
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: ______

Gage operating: ______ Record Removed ______
Battery voltage: ______ Intake/Orifice cleaned/purged: ______
Bubble-gage pressure, psi: Tank 1550, Line 14; Bubble-rate 60 /min.
Extreme-GH indicators: max ______, min ______.
CSG checked: ______ HWM height on stick ______ Ref. elev. ______ HWM elev. ______
HWM inside/outside: ______
Control: ______

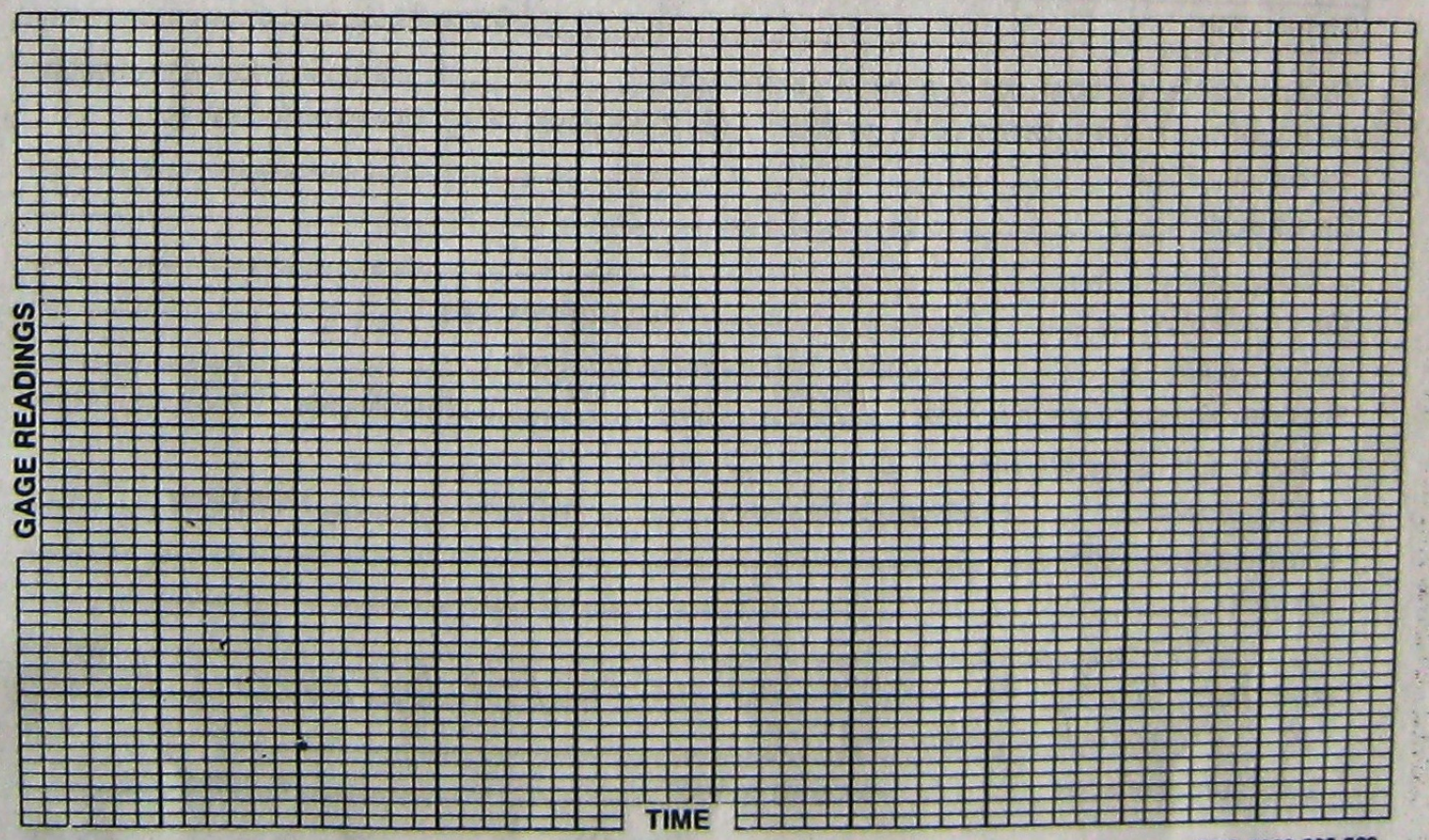
Remarks: Tried to unfreeze orifice line by pouring boiling hot glacial water on it
GH of zero flow = GH ______ - depth at control ______ = ______ ft., rated ______
Sheet No. ______ of ______ sheets

INFLC 576 RDGS → Orifice line frozen

WT

	IG	OG
18:20	—	0.3/0.1 °C
18:23	0.55	—
18:28	—	0.2/0.1 °C

ANGLE COEFFICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVATION DEPTH	REVOLUTIONS	TIME IN SECONDS	VELOCITY: AT POINT	VELOCITY: MEAN IN VERTICAL	ADJUSTED FOR HOR. ANGLE OR	AREA	DISCHARGE
	.0										
	.10										.90
	.20										.92
	.30										.94
	.40										.96
	.50										.97
	.60										.98
	.70										.99
	.80										
	.85										
⊙											1.00
	.80										
	.70										.99
	.60										.98
	.50										.97
	.40										.96
	.30										.94
	.20										.92
	.10										.90
	.0										



GPO 2003-568-560

H1 - Andersen 12/29/02

Flow present

14 → Trying to unfreeze orifice ice by pouring boiling hot glacial water on it

29 Dec 12/29/03

Anderson Crk JG, LH, PS, JB, KC

Stage Staff 0.51 @ 17:07

Height 0.53 @ 17:18

0.52 ±0.01 @ 1820

time	pH	temp	cond	temp
18:20	5.88	0.3	15.4	0.1
18:28	6.23	0.2	15.5	0.1

19:17 - stage height = 0.49 ft

CR10 readings @ 18:23

ch1	5.8260	stg
ch2	11.010	AT
ch3	0.55	WT
ch4	16.408	SC
ch5	13.388	volts

N2 tank - 1550 psi

Regul 14 psi

Canopflow bubbles 60 bubbles/min

Water samples collected

Rigging done by PS

Leveling notes

BS	HT Ist	F.S	Elev.	Remarks
RM1				225' US
RM2				Bolt 15' US center
RM3				DSR 50'
Flume			A	US Top left
"			B	US bottom
"			C	Orifice
"			D	Staff (2.50)
"			G	DS Top R
"			F	DS Bott
"			G	PZF overflow

RM2 246.56.05
25.0172
0.2442

A 254.02.37, 17.9331, 0.2609 (0.2445)

B 253.18.31, 17.7476, -0.5097

C 253.04.54, 17.4210, -0.4912

D 254.02.30, 17.6012, 0.2455

E 255.42.24, 16.0562, 0.2346

F 256.25.43, 16.1623, -0.5402

G 259.46.34, 17.4985, -0.2900

RM2 246.50.34, 25.0464, 0217[illegible]

HZ, Δ, Δ1