

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

Meas. No. 6
Comp. by Flume rating
Checked by _____

Sta. No. _____
Sta. Name Lost Seal
Date Jan 4, 2003 Party PAS JDG ECVW
Width _____ Area _____ Vel. _____ G.H. 0.34 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					
Time				Inside	Outside
1329			06	1.34	0.34
	Start				
	Finish				
1352				1.34	0.34
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: Sunny, breezy 20th cc - cumulus, IG cumulostratus

Air Temp. 6.9 °C at 1330

Water Temp. 9.0 °C at 1330

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: yes Record Removed _____

Battery voltage: 13.4 Intake/Orifice cleaned/purged: _____

Bubble-gage pressure, psi: Tank 1900, Line 10; Bubble-rate 60 /min.

Extreme-GH indicators: max _____, min _____

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

HWM inside/outside: _____

Control: continued reshoring, additional layers to existing control with sand bags will make this a very competent control.

Remarks: repaired leakage left corner of control @ 1315. Still some leakage on right side of flume.

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

Sheet No. _____ of _____ sheets

fixed leak in tarp on (R) side

OG
SC 67.3 μS @ 13:45
WT 9.5 °C

Gauge:

F3
Lost Seal

Date	9 - Jan - 2003		20 - Jan - 03
time of visit (start & finish)	1300 13:51		13:00
party	JG, PS, EVM		JG, PS, EVM, KDC
cloud cover (% type)	20% cumulus, cumulostratus		100% stratus
wind (spd, dir)	5 mph from East		15 mph from East
air temp	~40°F		< 0°C
surveying?	No		No
photo? (#, which camera)	Yes		Yes
to do items? (y/n)	Y-dam repair, check cond *		
which field notebook?	JG		
Flow measurements (times)			NO FLOW
condition of control, probes	ok!! but needs some work *		
method (meter, flume, visual)			
discharge (units)	1829		
outside stage (staff or top down)	0.34		
CR10 stage reading	1.34		
Inside Box			
CR10 Channels (times)	1330	1350	17:40
ch 1 stage	1.34	1.34	1.01
ch 3 water temp	9.1	9.5	2.0 °C (not in water)
88 conductivity	13.88	13.88	2.7 (not in water)
4 battery voltage	13.47	13.4	12.86
2 air temp	7.0	6.9	3.02 °C
c Year, Day, Time	2003 04, 1341 @ 1340		✓
settings o.k?	✓		✓
*0?	✓		
N2 tank pressure (psi)	1900		1700
N2 feed pressure (psi)	11		10
purge?	flow ok.		NOT attempted
bubble rate (per min)	60		68
Stream Chemistry (times)			Yes (but from here, puddle)
water temp. (units)	9.8°C		9.5
sp. cond. (units)	67.4		67.3 @ 9.5°C
pH and temp of probe	5.0 @ 10.7°C		Δ
instrument notes (i.e. cal. time)	probe not calibrated		
water samples collected?	Yes		

probe in flume
 ch 87 looks
 more like SC =
 69 @ 1350

Date?

~~1/12/03~~

1/4/03

9

on other sheet
Scout notes in
John's NB +

this is in
right place
in NB

Lost Seal

Fixed leak in tarp on (R) side

Weir looks great!

- small leak @ juncture of weir (joint in weir)
- other small leaks in dam, but very minimal at this flow
- weir was slightly off level lower on L side < 1cm

chemistry

measured pH ~~at~~ w/ probe in bottle
but pH meter not recently calibrated

Cond. Measurements

SC	67.4	67.3	Flashing
cond		~47.5	

Time 1338 1345

@ flume

* does not match ch 88

maybe ch 81 or 87

ch 87 reads 6900