

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

Meas. No. G

Comp. by \_\_\_\_\_

Checked by \_\_\_\_\_

Sta. No. \_\_\_\_\_

Sta. Name 42- House

Date Jan 6, 2003 Party JG, PAS

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				
Time	Visual	Inside	Outside	
8:13	2/2			
	<0.5			<0.01
	Start			
8:20		0.837		
	VERY LOW FLOW			
	- Date considered it			
	Finish			
	no flow			
Weighted MGH				
GH correction				
Correct MGH				

Samples collected: water quality, sediment, biological, other \_\_\_\_\_

@ 8:34

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

Rain gage serviced/calibrated \_\_\_\_\_

Weather: 100% cc - cumulostratus; wind ~10 mph of east

Air Temp. 30.5 at 8:14

Water Temp. 1/2 °C at 8:34

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: 13.2 Intake/Orifice cleaned purged → successful - orifice line unfrozen!

Bubble-gage pressure, psi: Tank 1700, Line 11; Bubble-rate 76 /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 \_\_\_\_\_

Sheet No. \_\_\_\_\_ of \_\_\_\_\_ sheets

Valley has been overcast the last three days

STG RD65

- @ 8:25 - plugged hole on orifice to see if ch 1 was stage
- mostly subsurface flow
- orifice line unfrozen!

BETTER PROBE RD65

- Freed water temp & sp cond probes from ice @ 8:25

	Time	IG	OG	
SP Cond	8:20	111		after probe uncaved
SP Cond	8:34	[ ]	LErr	

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

Meas. No. \_\_\_\_\_

Comp. by \_\_\_\_\_

Checked by \_\_\_\_\_

Sta. No. \_\_\_\_\_

Sta. Name House

Date Jan 6, 2002 Party FAS JDG

Width \_\_\_\_\_ Area \_\_\_\_\_ Vel. \_\_\_\_\_ G.H. NO Flow 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
<u>0813</u>	<u>NO</u>	<u>FLOW</u>
Start		
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: overcast, light breeze

Air Temp. 30 F at 0814

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: yes Record Removed \_\_\_\_\_

Battery voltage: \_\_\_\_\_ Intake/Orifice cleaned/purged: purge worked this time

Bubble-gage pressure, psi: Tank 1700, Line 11; Bubble-rate 76 /min.

Extreme-GH indicators: max \_\_\_\_\_, min \_\_\_\_\_

CSG checked: \_\_\_\_\_ HWM height on stick \_\_\_\_\_ Ref. elev. \_\_\_\_\_ HWM elev. \_\_\_\_\_

HWM inside/outside: \_\_\_\_\_

Control: \_\_\_\_\_

Remarks: Valley has been overcast the last three days. Freed temp & spc probes from ice @ 0825

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



Date ? ~~1/2~~ 1/6/03

House

were not in  
L. Home basin  
on 1/2

visit to HZ on 1/6

@ ~ 8 25 plugged hole on onifice to  
see if ch<sub>1</sub> was stage

L Err on Condc meter when  $q$  is flushing

→ cond in-water next to probe is 83.6

- mostly <sup>sub</sup> surface flow

uncovered temp & cond probe

LION

- ch

should w

- put

- prob

Gauge.

HZ  
House

Date	6 - Jan - 2003	26 - Jan - 2003	
time of visit (start & finish)	8:15	17:40	
party	JG PS	JG, EV, IC	
cloud cover (% type)	100% cumulonimbus	100%	
wind (spd, dir)	~10 mph E	< 5 mph from east	
air temp			
surveying?	N	Yes	
photo? (#, which camera)	4 - JG		
to do items? (y/n)	Fix tarp, CR10 channels	Yes - new bench marks needed	need to install plaque
which field notebook?			need to fix retaining strap for
<b>Flow measurements</b> (times)			
condition of control, probes	control not o.k., probes buried	NO FLOW	
method (meter, flume, visual)	visual	control not ok, flume above <del>level</del>	smooth side of wall
discharge (units)	< 0.5 L/sec		
outside stage (staff or top down)	< 0.01		
CR10 stage reading	0.857??		
<b>Inside Box</b>			
CR10 Channels (times)	~820	17:45	
? ch1 stage	0.837	1.0723	
2 water temp	-0.96	1.1871	
3 conductivity	0.24	0.22973	
? 5 battery voltage	13.2	13.397	
6 air temp	-0.17	0.6330	
Year, Day, Time	2003, 06, 824 @ 824 on 16 units	03, 26, 18:16	
settings o.k?	yes		
*0?	✓	ch.4 127.01	Jan 18:00
N2 tank pressure (psi)	1600	1500	installed new N2 tank 2000 psi
N2 feed pressure (psi)	10	12	left 1500 psi tank in boxes spare
purge?	Yes! first time	10	
bubble rate (per min) on conoflow	76	80	used
<b>Stream Chemistry</b> (times)	8:34		
water temp. (units)	10.2 on cond. meter		collected yesterday by algae dip
sp. cond. (units)	8.8		
pH and temp of probe	in lab		
instrument notes (i.e. cal. time)			
water samples collected?	Yes		

N2 tank  
-drill

ch 4 III.

uncovered  
ch 4 = III @ ~820

13.03 ✓, 13.03 ✓