

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

Meas. No. Nothing to enter
Comp. by _____
Checked by _____

J-day 327

Sta. No. _____
Sta. Name H1-Andersen
Date Nov 23, 2002 Party TF, KC
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 _____

Some snow in stream channel

GAGE READINGS					
Time				Inside	Outside
	Start	NO FLOW			
	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: _____
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: _____

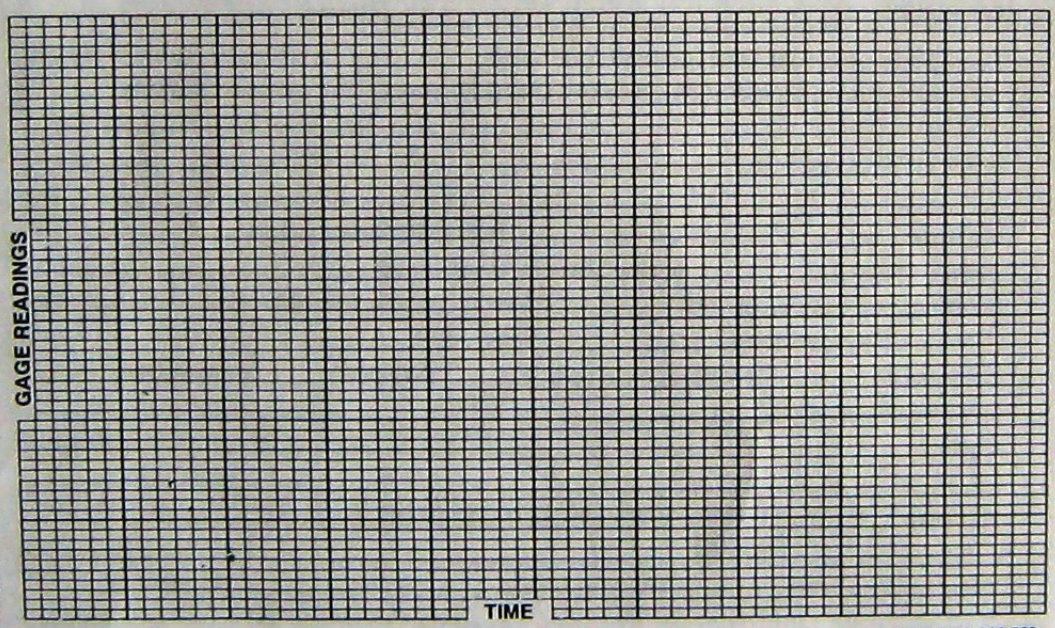
Gage operating: _____ Record Removed _____
Battery voltage: _____ Intake/Orifice cleaned/purged: _____
Bubble-gage pressure, psi: Tank _____, Line _____; Bubble-rate _____ /min.
Extreme-GH indicators: max _____, min _____
CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____
HWM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

Remarks: Swapped out H1A S/M, installed H1B S/M; installed new N₂ tank

GH of zero flow = GH _____ - depth at control _____ = _____ ft., rated _____
Sheet No. _____ of _____ sheets

J-day 327 /
Time 15:28 → 15:59

0	.10	.20	.30	.40	.50	.60	.70	VELOCITY		.80	.85	.90
								ANGLE COEF. FICIENT	DISCHARGE			
ANGLE COEF. FICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVATION DEPTH	REVO. LUTIONS	TIME IN SEC-ONDS	AT POINT	MEAN IN VER-TICAL	ADJUST-ED FOR HOR. ANGLE OR	AREA	DISCHARGE	
												.92
												.94
												.96
												.97
												.98
												.99
												1.00
												.99
												.98
												.97
												.96
												.94
												.92
0	.10	.20	.30	.40	.50	.60	.70	.80	.85			.90



①
OPENING H1 GAUGE Andersen Creek 11/23/02

Checked ^{H1B} Storage module w/ IC Jim Fisher

- Battery on storage module installed on: 3/2000 ^{H1B}. Since < 4 years OK
- Erased data on ^{H1B} storage module
- Did not erase the program

Changing storage module at the gauge

① ^a Attached key pad to the blue cable and confirmed that power

② Looked at channel 7 - battery voltage ~12.8 - good

no need to swap out

③ Gauge contains CR10X data logger. Made CR10X wiring diagram

④ Swapped out H1A storage module and replaced with H1B storage module.

⑤ Before swapped out storage module changed time

SM H1A time = 15:28 changed to

GPS time = 15:59

Julian Day of 327 was OK

26 After installed HIB storage module, checked battery power. It was OK

27 Checked HIB storage module settings. Set to fill + stop. OK

28 Checked to see that temp, conductivity, battery voltage values seemed OK.

Additional

• Swept out gauge box - not really that much dirt in there. Thomas suggested that putting clay in the hole that the sensor wires go through may prevent dirt from accumulating ^{in sump}

• No flow. Snow in the stream channel

• Weir may have to be rebuilt

Brought in new Nz tank + swapped out old one

Tools needed

• Flathead screwdriver to remove casing protecting data logger

• Very small Philips screwdriver to remove blue cable from storage module

Next time need to

• Make sure all the connections are tight

• Check scan rate

People making visit

Tim Fitzgibbon, Thomas Nylen,

Karen Corzetto