

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

Meas. No. 51
Comp. by
Checked by

Sta. No.
Sta. Name FI-Canada
Date Jan 16, 2003 Party 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 table with columns: Time, TG, OG, Inside, Outside. Includes handwritten data for 19:20, 1.76, 1.90, 1.72, 0.70.

Samples collected: water quality - 19:30
sediment, biological, other
Measurements documented on
separate sheets: water quality,
aux./base gage, other
Rain gage serviced/calibrated
Weather: 0% clouds, winds ~ 5 mph
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: 14.9 Intake/Orifice cleaned/purged:
Bubble-gage pressure, psi: Tank 1000, Line 11; Bubble-rate 48 /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

Handwritten notes: WT, SP Cond, Time, TG, OG, 19:20, 6.00°C, 5.4°C, 13.4 uS, 221 uS.

Gauge:

FI - CANADA

Date	08 - Jan - 03	16 - Jan - 03
time of visit (start & finish)	16:20	1920
party	PAS, JDG, KDC	PAS
cloud cover (% , type)	100% stratocumulus	0%
wind (spd, dir)	10-15 mph	Light - 5 mph
air temp		~ 35 F°
surveying?	Yes	No
photo? (#, which camera)		
to do items? (y/n)	4 terminal connectors	
which field notebook?	KDC	
Flow measurements (times)	16:20	1920
condition of control, probes		good - clear
method (meter, flume, visual)		flume rating
discharge (units)		↓
outside stage (staff or top down)	0.81	0.70
CR10 stage reading		1.72
Inside Box	16:20 17:55	
CR10 Channels (times)		
Ch. 1 stage	1.86 1.80	1.72
Ch. 2 water temp	6.28°C 5.947	6.00
Ch. 3 sp conductivity	22.89 22.61	22.1
Ch. 4 battery voltage	14.27 14.43	14.9
air temp		-
Year, Day, Time	03 ✓, 08 ✓, 16:28 ✓	03, 14, 1925
settings o.k?		
*0?		
N2 tank pressure (psi)	1200	1000
N2 feed pressure (psi)	11	11
purge?		
conoflow bubble rate (per min)	48	48
Stream Chemistry (times)	17:55	
water temp. (units)	5.5°C	5.4
sp. cond. (units)	5.5°C, SC = 20.3 μS (flash), C = 12.7 μS (flash)	8.3 (not flash), 13.4 (flash)
pH and temp of probe		
instrument notes (i.e. cal. time)		
water samples collected?		yes @ 1930