

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

Meas. No. 49  
Comp. by AOE  
Trans # 6  
Checked by \_\_\_\_\_

J-day  
364

Sta. No. 009  
Sta. Name Finneyson - U1  
Date 02-30-2002 Party PAS  
Width 5.00 Area 0.61 Vel. 1.03 G.H. 1.46 Disch. 0.64  
Method 1.6, S No. secs. 18 G.H. change \_\_\_\_\_ in \_\_\_\_\_ hrs.  
Method coef. 1.0 Horiz. angle coef. 1.0 Susp. ROD Tags checked OK  
Meter Type pygmy Meter No. 90265 Meter \_\_\_\_\_ ft. above bottom of wt.  
Rating used 6-99 Spin test before meas. 15; after OK  
Meas. plots \_\_\_\_\_ % diff. from rating no. \_\_\_\_\_ Indicated shift \_\_\_\_\_

| GAGE READINGS |        |        |         |
|---------------|--------|--------|---------|
| Time          |        | Inside | Outside |
| 1940          |        | 1.48   | .48     |
| 1943          | Start  | 1.40   |         |
| 2000          | Finish | 1.53   |         |
| 2005          |        | 1.48   | .48     |
| Weighted MGH  |        | 1.46   | 1.48    |
| GH correction |        | 0      | 0       |
| Correct MGH   |        | 1.46   | 1.48    |

Samples collected: water quality,  
sediment, biological, other \_\_\_\_\_  
parms  
Measurements documented on  
separate sheets: water quality,  
aux./base gage, other \_\_\_\_\_  
Rain gage serviced/calibrated \_\_\_\_\_  
Weather: overcast, breezy  
Air Temp. ~30 at 1940  
Water Temp. \_\_\_\_\_ °C at \_\_\_\_\_  
Check bar/chain found \_\_\_\_\_  
Changed to \_\_\_\_\_ at \_\_\_\_\_  
Correct \_\_\_\_\_

good stage  
record  
begins at  
1800

pygmy

Wading, cable, ice, boat, upstr., downstr., side bridge, 100 ft., mi. upstr., downstr. of gage  
Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following  
conditions: Flow: Even, steady flow lines  
Cross section: gravel

Gage operating: NO Record Removed \_\_\_\_\_  
Battery voltage: \_\_\_\_\_ Intake/Orifice cleaned/purged: Scrubbed w/ Weir  
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: \_\_\_\_\_  
GH of zero flow = GH \_\_\_\_\_ - depth at control \_\_\_\_\_ = \_\_\_\_\_ ft., rated \_\_\_\_\_  
Sheet No. \_\_\_\_\_ of \_\_\_\_\_ sheets

Year 2002 ✓  
J-day 364 ✓  
Time 13:48 → 13:50

1.46

Gauge:

H1 - Andersen ✓

P 101 ✓

Photo

General visit info start time

|   | (Thurs) 12/26/02                                   | 12/30/02 | 3 Jan 03   |
|---|--|----------|--|
| Start time of visit                       | 11:30  | ✓        | 13:35  |
| Weather - bold, italics                   |  | ✓        |  |
| Air temp.                                 |  | ✓        | 11°C accd to data log  |
| % cloud cover                             | 30%  | ✓        | 97%  |
| Type of cloud                             |  | ✓        | Cumulus  |
| Wind speed (mph)                          | < 5 mph  | ✓        | < 5 mph  |
| Flow present (yes/no)                     | yes - low  | ✓        | yes  |
| Condition of control (snow, debris, etc.) | sediment<br>no snow in cut<br>some snow by channel | ✓        | distice line unfrozen<br>some sediment built up in flume<br>some ice on outside gauge plate<br>sc probe buried in permafrost |
| Inside gauge box (Time)                   |  | ✓        |  |
| N2 tank pressure (psi)                    | 1575   | ✓        | 1400 psi   |
| N2 regul. press. (psi)                    | nil  | ✓        | 14 psi - tried to turn regul. press down   |
| Conoflow bubblg rate ok                   | OK   | ✓        | 67 bubbles/min   |
| Storage module settings                   |  | ✓        |  |
| Chat stop Fill and stop                   | ✓  | ✓        |  |
| Battery level OK                          | ✓  | ✓        |  |
| Old year, Julian day, time                | 02, 360, 11:44:xx                                  | ✓        | 03, 5, 15:56 → 15:57   |
| New year, Julian day, time                | 02, 360, 11:44:xx                                  | ✓        | 02, 360, 12:48 → 13:50   |
| Ch. 1 Stage                               | 9.4675 11:47                                       | ✓        | 1.29 @ 15:52   |
| Ch. 3 Water temp                          | 0.61950 11:48                                      | ✓        | 1.4°C @ 15:52  |
| Ch. 4 Sp Conductivity                     | 16.869 11:48                                       | ✓        | 16.11 but probe buried @ 15:52   |
| Ch. 5 Battery voltage                     | 13.859 11:48                                       | ✓        | 13.54 @ 15:52  |
| Ch. 2 Air Temp                            | 11.010 11:47                                       | ✓        | 11.0°C @ 15:52   |
| Stream chemistry (Time)                   |  |          |  |
| Water temp and time                       |  | ✓        |  |
| pH and time                               |  | ✓        |  |
| Sp. Conductivity and time                 | No cond meter - left @ Bunney                      | ✓        | 27.4 μS, 1.0°C @ 16:30   |
| Get stream chem sampls (Y/N)              |  | ✓        | Y/N Ch. 4 = 16.91 μS @ 16:30   |
| Flow measurements (Time)                  |  | ✓        | Ch. 3 = 1.41°C WT @ 16:30  |
| Inside stage level rdg and time           |  |          |  |
| Outside stage level rdg and time          | 0.01 @ 11:54                                       |          |  |
| Outside flow rdg, start/stop times        |  |          |  |
| Portbl flume, pygmy, or AA                | Too low to pygmy, AA, no portable flume            |          |  |
| Span test (yes/no)                        |  |          |  |
| Rating of measurement                     |  |          |  |
| Rating of flow                            |  |          |  |
| Outside stage level rdg and time          |  |          |  |
| Inside stage level rdg and time           |  |          |  |
| *0 on keypad (Y/N)                        | ✓  | ✓        |  |
| Stop time of visit                        |  | ✓        |  |

Air temp

Outside flow

Before visit

pH calibration } 3 yes 11:15  
cond calibration } 3 yes 11:15

Stream chem collected