

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

Meas. No. 41, 42, 43, 44

Comp. by _____

Checked by _____

Sta. No. _____
Sta. Name B1 - Prisco
Date Jan 6/7, 2003 Party JG, 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 _____

GAGE READINGS					
Time	P. Flume	P. Flume	OG	Inside	Outside
	<u>ft</u>	<u>cf</u>	<u>cm-ft</u>		
<u>24:00</u>	<u>0.235±0.09</u>	<u>0.234</u>	<u>1.15</u>	<u>1.531</u>	<u>0.15±0.03</u>
	Start				
<u>00:21</u>				<u>1.48</u>	
<u>00:24</u>	<u>0.23</u>	<u>0.224</u>	<u>1.12</u>		<u>0.12±.01</u>
<u>01:15</u>	<u>0.21</u>	<u>0.187</u>	<u>1.10</u>	<u>1.39</u>	<u>0.10±.01</u>
<u>01:20</u>	<u>0.21</u>	<u>0.187</u>	<u>1.09</u>	<u>1.42</u>	<u>0.09±.02</u>
	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: 5th cumulus, 15 mph fr east

Air Temp. 2.6 °C at 1:20 IG

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: 13.4 Intake/Orifice cleaned/purged: _____

Bubble-gage pressure, psi: Tank 650, Line 11; 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

Time IG OG
Sp. Cond 00:10 _____ LEU
Temp 00:10 not working 1.3°C

@ 1:25 pulled plug and restarted CR10

Gauge

BI-PRISCU

06/

07-Jan-03

Date	07-Jan-03						13-Jan-03
time of visit (start & finish)	1200 - 1230						1700
party	JG KC						KAC, PAS
cloud cover (% type)	5% cumulus						80%
wind (spd, dir)	E 15 mph						E 10
air temp	chilly						~ 0°C
surveying?	N						N
photo? (#, which camera)	N						N
to do items? (y/n)	check Temp probe						N
which field notebook?	-						when leveling next year, fix Partial Flume
Flow measurements (times)	24:00	2406	0024	1:15	0120	01:25	
condition of control, probes	good						good, Flume not horizontal
method (meter, flume, visual)	prtbl flume						Flume
discharge (units)	$0.255 \pm 0.05'' = 0.291 \text{ cfs}$						$0.23'' = 0.21$
outside stage (staff or top down)	0.157 ± 0.03	0.15 ± 0.02	0.12 ± 0.01	0.10 ± 0.01	0.09 ± 0.2	0.24 on Partial	
CR10 stage reading							1.42
Inside Box							1.52
CR10 Channels (times)	24:00	00:21		1:15		1705	
ch1 stage	1.531	1.48		1.39		01 = 1.52	
ch3 water temp	-1.8 *						-9999
conductivity							03 = -
ch4 battery voltage	13.5						04 = 14.2
ch2 air temp	4.5 *						02 = 5.36
Year, Day, Time							
settings o.k?	✓						✓
*0?							
N2 tank pressure (psi)	650						750
N2 feed pressure (psi)	11						11
purge?							No
bubble rate (per min) on conoflow							20 - turned up to 40
Stream Chemistry (times)							00:10 - from sample log
water temp. (units)	1.4 - 1.3°C						5.4°C
sp. cond. (units)	LErr (Flashing) 87.5 μS (not flashing)						81.6
pH and temp of probe	in lab						
instrument notes (i.e. cal. time)							
water samples collected?	Yes						Yes

• AT & WT could be switched
 • had problem w/ WT before

Observation of
 AT is below
 freezing

plus
 pulled plug
 and resealed
 CR10
 over

L25