9-275-H
(Rev. 6-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

DISCHARGE MEASUREMENT NOTES

Meas. No. 61

Comp. by AQC

Trans #6

Checked by

Sta. No. Lawson B3

Date Jan 14 ~~19~~ 2003 Party PAS

Width 2.90 Area 0.68 Vel. 0.16 G.H. _____ Disch. 0.11 cfs

Method .6 No. secs. _____ G.H. change _____ in _____ hrs. Susp. _____

Method coef. 1.0 Hor. angle coef. 1.0 Susp. coef. _____ Meter No. 70255

Date rated 6-99 Used rating for rod _____ susp. Meter _____ ft

above bottom of wt. Tags checked OK Spin before meas. 1:15 after OK

Meas. plots _____ % diff. from _____ rating. Wading, cable, ice, boat, upstr., downstr., side

bridge 150 feet, mile, above, below gage. Levels obtained NO

WHEN?

BASE GAGE READINGS

TD

	Time	Tdwn ft	Recorder	Inside	Outside
①	1015	1.52		6.15	6.265
②	1038	1.53		6.14	6.255
	Weighted M.G.H.				
	G.H. correction				
	Correct M.G.H.				

AUX. GAGE READINGS

Time		Recorder	Inside	Outside
Weighted M.G.H.				
G.H. correction				
Correct M.G.H.				

Check-bar, chain found _____

changed to _____ at _____

Check-bar, chain found _____

changed to _____ at _____

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%), based on following conditions: Cross section narrow

Flow mostly to REW Weather Overcast, cold

Other _____ Air 30 °F. @ 1000

Gage OK Water ~35 °F. @ 1000

_____ Record removed _____ Intake flushed UL

Observer _____

Control ice bridged, shore ice, otherwise clear

Remarks TPD from top of rebar = 1.52' @ 1015 →

TPD @ 1038 = 1.53'

G.H. of zero flow _____ ft. Sheet No. _____ of _____ sheets.

Conductance _____

Clarity _____

No end of season elevations → top of rebar elevation from 12/12/02 levels = 7.777 ft
- good approx bec not much change btw start + end of season rebar elevations for previous yrs

① Tapedown @ 10:15 = 1.52 ft → 7.785 - 1.52 = 6.265 ft

② Tapedown @ 10:38 = 1.53 ft → 7.785 - 1.53 = 6.255 ft

.0	.10	.20	.30	.40	.50	.60	.70	.80	.85	.90

Angle coefficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY: At point	VELOCITY: Mean in vertical	Adjusted for hor. angle or ----------	Area	Discharge	
	@ 10 15											.92
	01= 6.15	Stage										.94
	02= —											.96
	03= 0.00											.97
	04= 12.6	Bat#.V.										.98
	05= 16.0											.99
⊙												1.00
												.99
												.98
												.97
												.96
												.94
												.92
												.90

.0	.10	.20	.30	.40	.50	.60	.70	.80	.85	.90

GAGE READINGS

Time

★ GPO : 1963 O—690992

c 5000 (tm) by JBS Instruments
re Version AQCUSH8c (c)1995-2000

GAGE ID#	?
DATE	01/14/2003
TRANSECT	06
USER ID#	4907
SH BEGIN	0.00
SH END	0.00
GH BEGIN	0.00
GH END	0.00
EST. DISCHARGE	0.00
EST. Q (ADJ)	0.11
METER ID#	90256
AQUACALC ID#	671
SOUNDING WT.	0
START MEAS. AT	LEW
METER TYPE	Pygmy ST2
METER CONST. C1	0.9604
METER CONST. C2	0.0312
METER CONST. C3	0.9604
METER CONST. C4	0.0312
METER CONST. C5	0.0
MEASUREMENT TIME	40
MEAS. SYSTEM	SAE
PERCENT SLOPE	0.00
TOTAL VERTICALS	10
TOTAL STATIONS	10
TOTAL WIDTH	2.90
TOTAL AREA	0.68
TOTAL DISCHARGE	0.115
PCT DIFFERENCE	0.0
MEAN VELOCITY	0.16
WETTED PERIMETER	3.00
HYDRAULIC RADIUS	0.23
MANNING FACTOR	0.00

OB	DIST	DEPTH	ICE	REVS	TIME	COS:VF	LOC	COEF	CLOCK	VEL	AREA	FLOW(Q)
1	0.00	0.00	0.00	0	0.0	1.00	6	1.00	10:28	0.000	0.000	0.000
2	0.30	0.20	0.00	0	6.8	1.00	6	1.00	10:28	0.000	0.060	0.000
3	0.60	0.25	0.00	0	6.1	1.00	6	1.00	10:28	0.000	0.075	0.000
4	0.90	0.32	0.00	0	10.6	1.00	6	1.00	10:30	0.000	0.096	0.000
5	1.20	0.32	0.00	6	21.1	1.00	6	1.00	10:31	0.304	0.096	0.029
6	1.50	0.35	0.00	11	42.7	1.00	6	1.00	10:32	0.279	0.105	0.029
7	1.80	0.30	0.00	23	40.7	1.00	6	1.00	10:33	0.574	0.090	0.052
8	2.10	0.28	0.00	25	41.8	1.00	S	1.00	10:35	0.606	0.084	0.005
9	2.40	0.20	0.00	0	7.2	1.00	S	1.00	10:36	0.000	0.080	0.000
10	2.90	0.00	0.00	0	0.0	1.00	6	1.00	10:36	0.000	0.000	0.000

Observer

Control ice bridged, shore ice, otherwise clear

Remarks TPD from top of rebar = 1.52' @ 1015

TPD @ 1038 = 1.53'

G.H. of zero flow ft. Sheet No. of sheets.

Conductance

Clarity