

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Meas. No. 18

WATER RESOURCES DIVISION

Comp. by \_\_\_\_\_

Sta. No. \_\_\_\_\_ **DISCHARGE MEASUREMENT NOTES**

Checked by \_\_\_\_\_

Lyons Cr @ B4

Date 12/23, 19 98 Party AB, WS, MG, RH

Width 6.0 Area 1.60 Vel. .81 G.H. 7.03 Disch. 1.30

Method Pygmy No. secs. 16 G.H. change \_\_\_\_\_ in \_\_\_\_\_ hrs. Susp. rod

Method coef. .6 Hor. angle coef. \_\_\_\_\_ Susp. coef. \_\_\_\_\_ Meter No. \_\_\_\_\_

Date rated 1/80 Used rating for rod \_\_\_\_\_ susp. Meter Pygmy ft

above bottom of wt. Tags checked \_\_\_\_\_ Spin before meas. \_\_\_\_\_ after \_\_\_\_\_

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

bridge 5 feet mile, above, below gage. Levels obtained \_\_\_\_\_

BASE GAGE READINGS

Time	Recorder	Inside	Outside
1700		6.93	
1710		6.94	6.98
1723		6.98	7.0
1740		7.03	7.05
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 \_\_\_\_\_

Check-bar, chain found \_\_\_\_\_

changed to \_\_\_\_\_ at \_\_\_\_\_

changed to \_\_\_\_\_ at \_\_\_\_\_

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

Flow \_\_\_\_\_ Weather clear, windy

Other \_\_\_\_\_ Air 35 ° F. @ 7.10

Gage OK Water \_\_\_\_\_ ° F. @ \_\_\_\_\_

Record removed \_\_\_\_\_ Intake flushed U

Observer \_\_\_\_\_

Control ice on edges of creek

Remarks No tank @ 1800 psi, feed = 8 psi

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

Conductance \_\_\_\_\_  
Clarity \_\_\_\_\_

River at—

Angle coef- ficient	Dist. from initial point	Width	Depth	Observa- tion depth	Rev- olu- tions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or -----	Area	Discharge
							At point	Mean in ver- tical			
	3.0	.20	0		LEW					0	0
	3.4	0.4	0.20	0.6	10	40		0.272		0.08	0.022
	3.8	0.4	0.20		15	45		0.354		0.08	0.0283
	4.2	0.4	0.20		20	44		0.472		0.08	0.0378
	4.6	0.4	0.27		50	48		1.05		0.108	0.1134
	5.0	0.4	0.42		80	49		1.62		0.168	0.2722
	5.4	0.4	0.42		80	47		1.69		0.168	0.2839
	5.8	0.4	0.40		40	53		0.765		0.160	0.1224
	6.2	0.4	0.40		40	40		1.0		0.160	0.160
	6.6	0.4	0.30		25	44		0.583		0.120	0.070
	7.0	0.4	0.30		15	40		0.354		0.120	0.0473
	7.4	0.4	0.22		20	51		0.411		0.088	0.0362
0.96	7.8	0.4	0.23	20	46		0.453	0.435	0.092	0.0460	
0.96	8.2	0.4	0.24	40	60		0.679	0.652	0.096	0.063	
0	8.6	0.4	0.20	.6	0	60		0	0.080	0	
	9.0	.20	0		REW	@ 1738					
	6.0	6.0							1.60	1.295 cfs	
											.99
											.98
											.97
											.96
											.94
											.92
											.90
											.85
											.80

1.182  
1.222452