

9-275-F
(Apr. 93)

U.S. Department of the Interior
U.S. Geological Survey

Meas. No. _____

Water Resources Division

Comp. by _____

Sta. No. _____ **DISCHARGE MEASUREMENT NOTES** Checked by _____

Ongx @ LWRT
Date 1/12/99 Party MG, AB, LS
Width 29.04 Area 23.63 Vel. 0.82 G.H. _____ Disch. 19.46 cfs
Method pygmy No. Sec. 27 G.H. Change 20.05 in 0.45 hrs. Susp. _____
Method coef. 1.0 Hor. angle coef. 1.0 Susp. coef. 1.0 Meter No. _____
Type of meter pygmy Date rated _____ Tag checked _____
Meter _____ ft. above bottom of wt. Spin before meas. _____ after _____
Meas. Plots _____ % diff from _____ rating. Levels obtained _____

GAGE READINGS					WATER QUALITY MEASUREMENTS	
Time	Inside	WT	SC	Outside	No.....	Yes..... <input checked="" type="checkbox"/>
1345	1.99	6.33	29.06		Time.....
1350				0.485	<u>Samples Collected</u>	
1415	1.99				No.....	Yes..... <input checked="" type="checkbox"/>
1421				0.48	Time.....
					<u>Method Used</u>	
					EDI.....	EWI.....
					Other.....
					<u>SEDIMENT SAMPLES</u>	
					No..... <input checked="" type="checkbox"/>	Yes.....
					Time.....
					<u>Method Used</u>	
					EDI.....	EWI.....
					Other.....
					<u>BIOLOGICAL SAMPLES</u>	
					Yes.....	Time.....
					No..... <input checked="" type="checkbox"/>	Type.....

Check bar, chain found _____ changed to _____ at _____
Wading, cable, ice, boat, upstr., downstr., side bridge 50 feet, mile, above, below, gage
Measurement rated excellent(2%), good(5%), fair(8%), poor(over 8%); based on following cond:
Flow _____
Cross section _____
Control _____
Gage operating _____ Weather breezy, cooler
Intake/Orifice cleaned _____ Air 2.0°C@ _____ Water _____°C@ _____
Record removed _____ Extreme Indicator: Max _____ Min _____
N₂ Pressure Tank 1500 Feed 10 Bbl rate _____ per min. Batt volt _____
CSG checked _____ Stick reading _____
Observer _____

HWM _____ outside, in well _____
Remarks Field WT = 6.0°C
SC = 33 ms

River at-

Angle coef- ficient	Dist. from initial point	Width	Depth	Observa- tion depth	Rev- olu-tions	Time in seconds	VELOCITY		Adjusted for hor- angle or —	Area	Discharge
							At point	Mean in ver- tical			
	5.0	1.0				REV @	1355				0
	7.0	2.0	0.24	.6	10	48		0.232		0.48	0.111
	9.0	1.75	0.55	.6	20	49		0.427		0.963	0.411
	10.5	1.50	0.71	.6	20	44		0.472		1.07	0.505
	12.0	1.25	0.85	.6	20	43		0.482		1.06	0.511
	13.0	1.00	0.91	.6	20	45		0.462		0.91	0.420
	14.0	1.00	0.97	.6	25	40		0.659		0.97	0.620
	15.0	1.00	0.92	.6	30	42		0.726		0.92	0.668
	16.0	1.00	0.88	.6	40	51		0.794		0.88	0.699
	17.0	1.00	0.92	.6	40	47		0.859		0.92	0.790
	18.0	1.00	0.90	.6	40	40		1.00		0.90	0.900
	19.0	1.00	1.00	.6	40	41		0.981		1.00	0.981
	20.0	1.00	0.97	.6	50	45		1.11		0.97	1.08
0	21.0	1.00	1.05	.6	50	42		1.19		1.05	1.25
	22.0	1.00	1.08	.6	50	44		1.14		1.08	1.23
	23.0	1.00	1.10	.6	50	44		1.14		1.10	1.25
	24.0	1.00	1.15	.6	50	40		1.25		1.15	1.44
	25.0	1.00	1.06	.6	50	44		1.14		1.06	1.21
	26.0	1.00	1.10	.6	40	42		0.958		1.10	1.05
	27.0	1.00	1.16	.6	40	44		0.916		1.16	1.06
	28.0	1.00	1.23	.6	40	47		0.859		1.23	1.06
	29.0	1.00	1.12	.6	30	45		0.679		1.12	0.760
	30.0	1.00	0.98	.6	30	49		0.626		0.98	0.613
	31.0	1.00	0.72	.6	25	40		0.639		0.72	0.460
	32.0	1.00	0.50	.6	20	40		0.516		0.50	0.258
	33.0	1.00	0.34	.6	15	46		0.317		0.340	0.118
	34.0					LEW @	1420				
										ΣQ = 19.46 cfs	
										ΣA _i = 23.63 ft ²	

.80

.85

.90

.94

.97

.98

.99

1.0

.98

.97

.94

.90

.85

.80