

9-275-F
(Apr. 93)

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

Meas. No. 36

Comp. by _____

Water Resources Division

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

Commonwealth stream @ CI - 1400

Date 14/27/98 Party MG, AB, BH

Width 9.0 Area 4.472 Vel. 0.76 G.H. 8.80 Disch. 3.400

Method _____ No. Sec. _____ G.H. Change _____ in _____ hrs. Susp. _____

Method coef. _____ Hor. angle coef. _____ Susp. coef. _____ 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 Field	SC field	TD	Outside
1405		9.0	39.0		
1400	8.91				
1412				2.25	8.77
1440	8.89			2.19	8.83

No..... Yes........ Time.....
Samples Collected
 No..... Yes........ Time...1405
Method Used
 EDI..... EWI..... Other.....

SEDIMENT SAMPLES

No...... Yes..... Time.....
Method Used
 EDI..... EWI..... Other.....

BIOLOGICAL SAMPLES

Yes..... Time.....
 No...... Type.....

Weighted MGH _____
 GH correction _____
 Correct MGH _____

Check bar, chain found _____ changed to _____ at _____

Wading, cable, ice, boat, upstr. downstr., side bridge 15 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 _____

Intake/Orifice cleaned _____ Air _____ °C@ _____ Water _____ °C@ _____

Record removed _____ Extreme Indicator: Max _____ Min _____

N2 Pressure Tank 1200 psi Feed 10 psi Bbl rate _____ per min. Batt volt _____

CSG checked _____ Stick reading _____

Observer _____

HWM _____ outside, in well _____

Remarks barterits @ 13.94 +

G.H. of zero flow _____ ft.

Sheet No. _____ of _____ sheets.

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			
	3.2	0.2	REW	@	14	10					
	3.6	0.4	0.05		0	60		0		0.02	0
	4.0	0.4	0.18		0	60		0		0.072	0
	4.4	0.4	0.33		0	60		0		0.132	0
	4.8	0.4	0.36		0	60		0		0.144	0
	5.2	0.4	0.33		5	49		0.128		0.132	0.017
	5.6	0.4	0.45		17	47		0.381		0.18	0.069
	6.0	0.4	0.57		25	50		0.516		0.228	0.118
	6.4	0.4	0.70		25	41		0.624		0.28	0.175
	6.8	0.4	0.71		35	46		0.771		0.284	0.219
	7.2	0.4	0.63		35	42		0.842		0.252	0.212
	7.6	0.4	0.72		50	51		0.986		0.288	0.284
	8.0	0.4	0.8		40	44		0.916		0.320	0.293
0	8.4	0.4	0.8		50	46		1.09		0.320	0.349
	8.8	0.4	0.78		60	45		1.33		0.312	0.415
	9.2	0.4	0.77		80	50		1.59		0.368	0.490
	9.6	0.4	0.70		60	45		1.33		0.280	0.372
	10.0	0.4	0.73		40	47		0.859		0.292	0.251
	10.4	0.4	0.62		20	57		0.371		0.248	0.092
	10.8	0.4	0.46		10	48		0.232		0.184	0.043
	11.4	0.7	0.28		0	60		0		0.196	0
	12.2	0.4	LEW	@	14	38					
					8.8	@	14	30			
								2.19	TD	ΣA = 4.472	
								E = 11.25			
								8.96			

Q = 3.400

.85

.90

.94

.97

.98

.99

1.0

.99

.98

.97

.94

.90

.85

.80