

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

Water Resources Division

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

Commonwealth Stream @ CI

Date 01/07/00 Party EC, MG, JM, DS

Width 8.3 ft. Area 3.22 ft<sup>2</sup> Vel. 1.14 ft/s G.H. \_\_\_\_\_ Disch. 3.68 cfs

Method wading No. Sec. 29 G.H. Change +0.03 in 0.75 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 NO

GAGE READINGS

WATER QUALITY MEASUREMENTS

Time	Inside			TD	Outside
<u>1330</u>	<u>8.85</u>			<u>2.20</u>	<u>8.815</u>
<u>1415</u>	<u>8.87</u>			<u>2.17</u>	<u>8.845</u>

No..... Yes.......... Time 1335  
Samples Collected  
 No..... Yes.......... Time 1335  
Method Used  
 EDI..... EWI..... Other.....

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

Weighted MGH \_\_\_\_\_  
 GH correction \_\_\_\_\_  
 Correct MGH \_\_\_\_\_

BIOLOGICAL SAMPLES  
 Yes..... Time.....  
 No..... Type.....

Check bar, chain found \_\_\_\_\_ changed to \_\_\_\_\_ at \_\_\_\_\_

Wading, cable, ice, boat, upstr., downstr., side bridge 150 feet, mile, above, below, gage.

Measurement rated excellent(2%), good(5%), fair(8%), poor(over 8%); based on following cond:

Flow slow in spots

Cross section sandy, wide

Control in good shape, free flowing

Gage operating yes Weather \_\_\_\_\_

Intake/Orifice cleaned NO Air 8.6 °C@ \_\_\_\_\_ Water 7.4 °C@ \_\_\_\_\_

Record removed NO Extreme Indicator: Max \_\_\_\_\_ Min \_\_\_\_\_

N<sub>2</sub> Pressure Tank 1850 Feed 10 Bbl rate \_\_\_\_\_ per min. Batt volt 13.6

CSG checked \_\_\_\_\_ Stick reading \_\_\_\_\_

Observer \_\_\_\_\_

HWM \_\_\_\_\_ outside, in well \_\_\_\_\_

Remarks WT<sub>me</sub> = 7.4 °C  
SC<sub>me</sub> = 34 μS

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			
	3.7	0.15	0		LEW @	13	48				
	4.0	0.30	0.28	.6	25	44		0.577		0.084	0.048
	4.3	0.30	0.32		40	43		0.925		0.096	0.089 <sup>90</sup>
	4.6	0.30	0.36		50	46		1.08		0.108	0.117
	4.9	0.30	0.40		50	46		1.08		0.120	0.130
	5.2	0.30	0.40		60	45		1.31		0.120	0.157 <sup>94</sup>
	5.5	0.30	0.40		60	46		1.28		0.120	0.154
	5.8	0.30	0.41		60	41		1.44		0.123	0.177 <sup>97</sup>
	6.1	0.30	0.42		60	46		1.28		0.126	0.161 <sup>98</sup>
	6.4	0.30	0.50		60	47		1.26		0.150	0.189 <sup>99</sup>
	6.7	0.30	0.51		50	43		1.15		0.153	0.176 <sup>99</sup>
	7.0	0.30	0.51		60	41		1.44		0.153	0.220
	7.3	0.30	0.49		80	52		1.51		0.147	0.220
0	7.6	0.30	0.48		80	50		1.57		0.144	0.226 <sup>100</sup>
	7.9	0.30	0.49		60	42		1.40		0.147	0.206
	8.2	0.30	0.48		60	40		1.47		0.144	0.212
	8.5	0.30	0.48		80	50		1.57		0.144	0.226 <sup>99</sup>
	8.8	0.30	0.46		80	51		1.54		0.138	0.213 <sup>98</sup>
	9.1	0.30	0.45		50	40		1.23		0.135	0.166 <sup>97</sup>
	9.4	0.30	0.40		50	40		1.23		0.120	0.148 <sup>97</sup>
	9.7	0.30	0.38		40	48		0.832		0.108	0.090
	10.0	0.30	0.40		40	42		0.946		0.120	0.114 <sup>94</sup>
	10.3	0.30	0.40		25	42		0.603		0.120	0.072
	10.6	0.30	0.35		30	46		0.658		0.105	0.069 <sup>90</sup>
	10.9	0.30	0.28		20	43		0.478		0.084	0.040 <sup>90</sup>
	11.2	0.30	0.25		5	40		0.151		0.075	0.011
	11.5	0.30	0.23	↓	15	51		0.314		0.069	0.022
	11.8	0.25	0.28		15	58		0.280		0.070	0.020 <sup>85</sup>
	12.0	0.10	0?		REW @	14	18			ΣA =	3.68
	Σ =	8.3 ft.								ΣA =	3.223