

9-275-F
(Apr. 93)

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Meas. No. 41

Comp. by JPM

WATER RESOURCES DIVISION

Sta. No. H12

DISCHARGE MEASUREMENT NOTES

Checked by

Date 12-18-1999 Party JPM
Width 3.5 Area .946 Vel. 1.27 G.H. 1.20
Method .6 No. secs. 13 G.H. change -.03 in .53 hrs. Susp. Rod
Method coef. - Hor. angle coef. - Susp. coef. - Meter No. P90248
Type of meter Pysmy Date rated Tag checked
Meter ft. above bottom of wt. Spin before meas. Free after Free
Meas. Plots % diff. from rating. Levels obtained

GAGE READINGS

WATER QUALITY MEASUREMENTS

Time	Inside	AT.	WT	SC	Outside
1508	1.6566	5.70	1.09	44.26	0.63
1540	1.6382	5.80	1.09	43.85	0.60
Weighted M.G.H.					
G.H. correction					
Correct M.G.H.					

No Yes X Time
Samples Collected
No X Yes Time
Method Used
EDI EWI Other

SEDIMENT SAMPLES

No X Yes Time
Method Used
EDI EWI Other

BIOLOGICAL SAMPLES

Yes Time
No X 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 the following cond:

Flow Uniform

Cross section coarse gravel, some cobble, ruff bottom

Control channel

Gage operating yes Weather sunny cool, light + breeze

Intake/Orifice cleaned no Air 6.5 °C @ 1546 Water 1.0 °C @ 1551

Record removed no Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank 1300 Feed 12 Bbl rate 32 per min.

CSG checked N/A Stick reading

Observer

HWM

Remarks conductance = 35 uS, No ice in flume, some flow through dike, probably around .1 to .2 cfs. outside, in well

G. H. of zero flow ft. Sheet No. 1 of 1 sheets

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			
	2.6	0.10	.20	REW @	15	13	.364			.020	.007
	2.8	.25	.20	.6	30	59	.520			.050	.026
	3.1	.30	.35		30	40	.752			.105	.079
	3.4	.30	.35		60	42	1.40			.105	.147
	3.7	.30	.35		60	48	1.23			.105	.129
	4.0	.30	.30		80	47	1.67			.090	.150
	4.3	.30	.35		150	56	2.60			.105	.273
	4.6	.30	.35		80	43	1.82			.105	.191
	4.9	.30	.30		50	46	1.08			.090	.097
	5.2	.30	.22		30	48	.631			.066	.042
	5.5	.30	.20		30	47	.644			.060	.039
	5.8	.30	.15	∇	20	45	.458			.045	.021
	6.1	.15	0	LEW @	15	80	80			0	0
	/	/					∇			/	/
0	3.5	3.5					1.27			.946	1.20