9-275-F
(Rev. 10-81)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Meas. No. .....

WATER RESOURCES DIVISION

Comp. by. .....

Sta. No. .....

DISCHARGE MEASUREMENT NOTES

Checked by .....

Onyx River @ Vanda

Date Dec 27, 1998 Party AB, MG, WS, BH

Width 33.3 ft Area 31.46 ft² Vel. 1.18 ft/s G. H. ..... Disch. 37.01 cfs

Method wading No. secs. 30 G. H. change ..... in ..... hrs. Susp. .....

Method coef. 01.0 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

Time	WT	Inside	~~ADR~~ SE	Graphic	Outside
1015	1.07	1.98	50.3		0.27 m
1030					0.27m
1048					0.27m
1110		1.98			0.26+
Weighted M.G.H.					
G. H. correction					
Correct M.G.H.					

WATER QUALITY MEASUREMENTS

No ..... Yes. X ... Time .....

Samples Collected

No ..... Yes. X ... 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. .... feet, mile, above, below gage.

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

Flow .....

Cross section .....

Control .....

Gage operating OK Weather Pt. Cloudy, warmish

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

Record removed ..... Extreme Indicator: Max. ..... Min. .....

Manometer N_2 Pressure Tank ..... Feed ..... Bbl rate ..... per min.

CSG checked ..... Stick reading .....

Observer .....

HWM ..... outside, in well

Remarks field WT = 1.5 SC = 58

offset = 1.0 (or 1.315???)

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

River at—

Angle coefficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY: At point	VELOCITY: Mean in vertical	Adjusted for hor. angle or	Area	Discharge
	6.2	0.9			REW	@1030	→ 0.6 = 0.27 m				
	8.0	1.9	0.25		0	60		0		0.475	0
	10.0	2.0	0.47		0	60		0		0.94	0
	12.0	1.5	0.65	0.6	7	50		0.165		0.975	0.161
	13.0	1.0	0.90	0.6	7	50		0.165		0.90	0.149
	14.0	1.5	0.98	0.6	10	48		0.232		1.47	0.341
	16.0	2.0	1.23	0.6	15	47		0.340		2.46	0.836
	18.0	1.5	1.44	0.6	30	41		0.743		2.16	1.60
	19.0	1.0	1.45	0.6	50	49		1.02		1.45	1.48
	20.0	1.0	1.40	0.6	50	49		1.02		1.40	1.43
	21.0	1.0	1.12	0.6	50	41		1.22		1.12	1.37
	22.0	1.0	1.12	0.6	70	45		1.55		1.12	1.74
	23.0	1.0	1.10	0.6	80	48		1.66		1.10	1.83
	24.0	1.0	1.12	0.6	80	49		1.62		1.12	1.81
⊙	25.0	1.0	1.12	0.6	80	41		1.93		1.12	2.16
	26.0	1.0	1.20	0.6	80	40		1.98		1.20	2.38
	27.0	0.85	1.35	0.6	100	46		2.15		1.15	2.47
	27.7	0.70	1.40	0.6	100	48		2.06		0.98	2.02
	28.4	0.70	1.50	0.8	80	50	1.59	1.92		1.05	2.02
				0.2	100	44	2.25				
	29.1	0.70	1.60	0.2	100	44	2.25	1.84		1.12	2.06
				0.8	60	42	1.42				
	29.8	0.70	1.50	0.8	60	40	1.49	1.82		1.05	1.91
				0.2	100	46	2.15				
	30.5	0.70	1.60	0.2	100	48	2.06	1.71		1.12	1.92
				0.8	60	44	1.36				
	31.2	0.70	1.50	0.8	60	48	1.25	1.62		1.05	1.70
				0.2	80	40	1.98				
	31.9	0.7	1.45	0.6	80	49		1.62		1.02	1.65
	32.6	0.85	1.10	0.6	60	40		1.49		0.935	1.39
	33.6	1.2	0.88	0.6	50	42		1.19		1.06	1.26
	35.0	1.5	0.68	0.6	40	45		0.896		1.02	0.914
	36.5	1.5	0.42	0.6	20	42		0.493		0.63	0.31
	38.0	1.5	0.22	0.6	15	45		0.354		0.264	0.093
	39.5	0.75			LEW	@1110					
										ΣQ =	37.01 cfs
										ΣA = 31.46 ft²	