

9-275-F
(Apr. 93)

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

Meas. No. _____

Water Resources Division

Comp. by MG

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

Onyx River @ Vanda

Date 01/20/00 Party EC, MG

Width 26.3ft. Area 21.5ft² Vel. 0.451ft/s G.H. _____ Disch. 9.70 cfs

Method wading No. Sec. 26 G.H. Change 0 in 1.2 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 yes

GAGE READINGS					WATER QUALITY MEASUREMENTS	
Time	Inside	WT	SC	Outside	No.....	Yes.....
1115	1.73	1.26	29.71	0.175	Time.....	
1155	1.73			0.175	Samples Collected	
1226	1.74	1.98	29.58	0.175	No.....	Yes.....
					Time.....	
					Method Used	
					EDI..... EWI..... Other.....	
					SEDIMENT SAMPLES	
					No.....	Yes.....
					Time.....	
					Method Used	
					EDI..... EWI..... Other.....	
					BIOLOGICAL SAMPLES	
					Yes.....	Time.....
					No.....	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 good

Cross section cobble and sand

Control in good shape

Gage operating yes Weather Sunny, light breeze

Intake/Orifice cleaned no Air _____ °C@ _____ Water _____ °C@ _____

Record removed yes Extreme Indicator: Max _____ Min _____

N₂ Pressure Tank 1000 Feed 10 Bbl rate _____ per min. Batt volt 14.2

CSG checked _____ Stick reading _____

Observer _____

HWM _____ outside, in well _____

Remarks swapped SM @ 1120 SCm=42, Tm=2.0 @ 1130
change gage

River at- *Vanda*

01/20/00

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			
	4.40	0.50	0.31		LEW	@ 1200		0		0.155	0
	5.4	1.0	0.43	-6	0	40		0		0.43	0
	6.4	1.0	0.50		0	40		0		0.50	0
	7.4	1.0	0.70		5	40		0.151		0.70	0.106
	8.4	1.0	0.93		20	45		0.458		0.93	0.426
	9.4	1.0	1.00		20	42		0.489		1.00	0.489
	10.4	1.0	1.21		30	54		0.565		1.21	0.684
	11.4	1.0	1.21		30	46		0.658		1.21	0.796
	12.4	1.0	1.33		30	42		0.717		1.33	0.954
	13.4	1.0	1.19		30	41		0.734		1.19	0.873
	14.4	1.0	1.24		30	47		0.644		1.24	0.798
	15.4	1.0	1.03		40	47		0.849		1.03	0.874
	16.4	1.0	0.94		40	45		0.885		0.94	0.832
0	17.4	1.0	0.90		30	41		0.734		0.90	0.661
	18.4	1.0	0.85		30	43		0.707		0.85	0.595
	19.4	1.0	0.83		30	49		0.619		0.83	0.514
	20.4	1.0	0.86		20	44		0.468		0.86	0.402
	21.4	1.0	0.92		20	48		0.431		0.92	0.396
	22.4	1.0	1.0		5	40		0.151		1.0	0.151
	23.4	1.0	1.0		5	42		0.146		1.0	0.146
	24.4	1.0	0.86		0	40		0		0.86	0
	25.4	1.0	0.77		0	40		0		0.77	0
	26.4	1.0	0.58		0	40		0		0.58	0
	27.4	1.0	0.46		0	40		0		0.46	0
	28.4	1.65	0.35		0	40		0		0.578	0
	30.7	1.15	0		REW	@ 1200					
		26.3									
										$\Sigma Q = 9.697 cfs$	
										$\Sigma A = 21.473 ft^2$	

.80

.85

.90

.94

.97

.98

.99

1.0

.99

.98

.97

.94

.90

.85

.80