

**U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT NOTES**

Meas. No. 39

Sta. No. _____

Comp. by _____

Andersen Cr. @ HI Lake Hoare

Checked by _____

Date 12/24, 19 98 Party WJS, AB

Width 6.8 Area 2.44 Vel. 1.81 G. H. _____ Disch 4.42 cfs

Method .6 No. secs. 18 G. H. change -0.01 in 0.5 hrs. Susp. rod

Method coef. 1.0 Hor. angle coef. 1.0 Susp. coef. 1.0 Meter No. _____

Type of meter pygmy Date rated 1/80 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	SC	Outside	No	Yes	Time
2145	74.56			1.22	.02	<input checked="" type="checkbox"/>	_____
2210				1.30	No	<input checked="" type="checkbox"/>	_____
2230				1.32			_____
2238	2.23	1.0	25ms	1.32	EDI	EWI	Other
2245	2.28						_____
2247				1.32	No	<input checked="" type="checkbox"/>	_____
2305	2.28			1.31			_____
					EDI	EWI	Other
Weighted M.G.H.					BIOLOGICAL SAMPLES		
G.H. correction					Yes		Time
Correct M.G.H.					No	<input checked="" type="checkbox"/>	Type

Check bar. chain found _____ changed to _____ at _____

Wading cable, ice, boat, upstr., downstr., side bridge 40 feet, mile, above, below gage.

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

Flow fairly uniform

Cross section gravel

Control clear

Gage operating see below Weather Sunny, calm

Intake/Orifice cleaned Yes Air _____ °C@ _____ Water 1.0 °C@ 2238

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

Nitrogen Pressure Tank 1600 Feed 10 Bbl rate _____ per min.

CSG checked _____ Stick reading _____

Observer Orifice plugged, installed temp @ 2230

HWM _____ outside, in well _____

Remarks _____

ANGLE COEFFICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVATION DEPTH	REVOLUTIONS	TIME IN SECONDS	VELOCITY		ADJUSTED FOR HOR. ANGLE OR	AREA	DISCHARGE
							AT POINT	MEAN IN VERTICAL			
	9.2	0.2	LEW		0	60	@ 2247				
	9.6	0.4	0.37	0.4	100	42		2.35		0.148	0.348
	10.0	0.4	0.40		80	40		1.98		0.16	0.317
	10.4	0.4	0.30		50	48		1.05		0.12	0.126
	10.8	0.4	0.38		80	48		1.66		0.152	0.252
	11.2	0.4	0.40		150	52		2.85		0.16	0.456
	11.6	0.4	0.45		100	45		2.20		0.18	0.396
	12.0	0.4	0.50		100	48		2.06		0.20	0.412
	12.4	0.4	0.50		80	47		1.69		0.20	0.338
	12.8	0.4	0.48		60	40		1.49		0.192	0.286
	13.2	0.4	0.40		80	47		1.69		0.16	0.270
	13.6	0.4	0.40		50	45		1.11		0.16	0.178
	14.0	0.4	0.38		100	46		2.15		0.152	0.327
	14.4	0.4	0.37		150	59		2.51		0.148	0.371
○	14.8	0.4	0.33		80	52		1.53		0.132	0.202
	15.2	0.4	0.23		40	51		0.794		0.092	0.073
	15.6	0.4	0.21		40	51		0.794		0.084	0.067
	16.0	0.2	REW		0	60	@ 2305				
									ΣQ = 4.42 cfs		
									ΣA = 2.44 ft ²		
<p>OG @ 2247 = 1.32 ft. } same @ 2159</p> <p>IG @ 2245 = 2.28 ft.</p> <p>OG @ 2305 = 1.31 ft.</p> <p>IG @ 2300 = 2.28 ft.</p>											