Form 9-275-D
(Jan. 1988)

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey

WATER RESOURCES DIVISION

Date 1/9, 1999

MISCELLANEOUS FIELD NOTES

Lyons Creek @ B4 MG, AB

UGLY SITE!

Found orifice ~1 in. above water surface. Stream has melted its way through glacial ice and is now significantly lower than at the last visit. No natural control anymore. Flow is supercritical.

Inside (1230) = 6.66 (stage)

Tapedown @1235 = 3.86 to water surface

OG = 6.14

SC (field) = 535 µzs

WT (field) = 1.25°c

SC (inside) = 444.6 µzs

WT (inside) = 0.96°c

Battery 13.5 Volts

N_2 feed 9 psi tank 1550 psi

Warm, sunny, will do pygmy measurement after orifice move. → 6.32 = OG

Tapedown to orifice BEFORE 3.68 ft @1240

Tapedown to orifice AFTER 4.06 ft @1253

Move was done at 1250 → OG = 5.94.

No. _____ of _____ sheets

9-275-F
(Apr. 93)

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

Water Resources Division

Meas. No. 19

Comp. by

Sta. No. Lyons Creek @ B4

DISCHARGE MEASUREMENT NOTES

Checked by

Date 1/9/99 Party MG, AB

Width 2.2 ft. Area 0.753 ft² Vel. 1.57 ft/s G.H. 6.15 Disch. 1.18 cfs

Method 0.6 No. Sec. 8 G.H. Change _____ in _____ hrs. Susp. _____

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

Type of meter _____ Date rated _____ 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			TD	Outside	No..... Yes...X..... Time.....
						Samples Collected
						No...X.... Yes..... Time.....
1315	7.03			3.85	6.15	Method Used
						EDI..... EWI..... Other.....
						SEDIMENT SAMPLES
						No...X..... Yes..... Time.....
						Method Used
						EDI..... EWI..... Other.....
Weighted MGH						BIOLOGICAL SAMPLES
GH correction						Yes.....Time.....
Correct MGH						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 following cond:

Flow _____

Cross section _____

Control Non existent

Gage operating OK Weather warm, sunny

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

Record removed _____ Extreme Indicator: Max _____ Min _____

N_2 Pressure Tank See Notes Feed _____ Bbl rate _____ per min. Batt volt _____

CSG checked _____ Stick reading _____

Observer _____

HWM _____ outside, in well _____

Remarks See accompanying mix. note sheet.

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

River at---

Angle coef-ficient	Dist. from initial point	Width	Depth	Observa-tion depth	Rev-olu-tions	Time in seconds	VELOCITY At point	VELOCITY Mean in ver-tical	Adjusted for hor.-angle or ____	Area	Discharge
	4.4	0.15	0.37	.6	LEW@1302		1.56	1.09		0.056	0.061
	4.7	0.30	0.37		80	51		1.56		0.111	0.173
	5.0	0.30	0.35		60	44		1.36		0.105	0.143
	5.3	0.30	0.48		150	52		2.85		0.144	0.410
	5.6	0.30	0.45		80	44		1.80		0.135	0.243
	5.9	0.30	0.38		30	40		0.761		0.114	0.087
	6.2	0.35	0.25		30	41		0.743		0.088	0.065
	6.6	0.20									0
		REW@1312.									$\Sigma Q = 1.186$
									$\Sigma A_i = 0.753 ft^2$		

.80 .85 .90 .94 .97 .98 .99 1.0 .99 .98 .97 .94 .90 .85 .80