

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT AND
GAGE INSPECTION NOTES

Meas. No. _____

Comp. by SWC

Checked by _____

Sta. No. _____

Sta. Name Canada F1

Date 12-9, 20 10 Party CBR SWC JCK

Width 12.0 Area _____ Vel. _____ G. H. _____ Disch. 3.06 cfs

Method _____ No. secs. _____ G. H. change _____ in _____ hrs.

Method coef. < Horiz. angle coef. - Susp. Red Tags checked _____

Meter Type Pigmy Meter No. 84023 Meter _____ ft. above bottom of wt.

Rating used _____ Spin test before meas. 35; after _____

Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS				<u>CR10</u>	
Time				Inside	Outside
<u>1357</u>				<u>1.99</u>	<u>1.04</u>
<u>1408</u>				<u>-</u>	
<u>1440</u>	Start			<u>-</u>	
<u>1444</u>				<u>2.04</u>	<u>1.05</u>
	Finish				
Weighted MGH					
GH correction					
Correct MGH					

Samples collected: water quality, sediment, biological, other _____

SC=37.1 YST, CR10 = 24.1

Measurements documented on separate sheets: water quality, aux./base gage, other _____

Rain gage serviced/calibrated _____

pH 6.88 @ 1832

Weather: AT = 9.41

Air Temp. CR10 UT 7.30 °C at 1358

Water Temp: 7.20 °C at _____

Check bar/chain found _____

Changed to _____ at _____

Correct _____

Wading, cable, ice, boat, upstr., downstr., side bridge, 300 ft. mi. upstr., downstr. of gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following conditions:

Flow: uniform

Cross section: gravel

Gage operating: _____ Record Removed _____

Battery voltage: 13.3 Intake/Orifice cleaned/purged: _____

Bubble-gage pressure, psi: Tank 500, Line 10; Bubble-rate 42 /min.

Extreme-GH indicators: max _____, min _____

CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____

HWM inside/outside: _____

Control: water going over overflow, flume clear

Remarks: Time is 12 sec slow, SD = 343

GH of zero flow = GH _____ - depth at control _____ = _____ ft., rated _____

ANGLE COEF- FICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVA- TION DEPTH	REVO- LUTIONS	TIME IN SEC- ONDS	VELOCITY		ADJUSTED FOR HOR. ANGLE OR	AREA	DISCHARGE	.80
							AT POINT	MEAN INVER- TICAL				
							River at -					
	2.60	.95	0		LEW	@	1408					
	4.50	1.1	.12	.6	15	43	.366	.		.132	0.04	.85
	4.80	.30	.20		45	44	1.01			.06	0.06	
	5.10	.30	.22		35	40	0.87			.066	0.057	
	5.40	.30	.25		40	49	.815			.075	.061	.90
	5.70	.30	.22		40	50	.800			.066	.053	.92
	6.00	.30	.42		40	41	.968			.126	.122	
	6.30	.30	.46		60	40	1.47			.138	.203	.94
	6.60	.30	.48		60	43	1.37			.144	.197	.96
	6.90	.35	.46		50	40	1.23			.168	.207	.97
	7.30	.40	.20		80	50	1.57			.08	.126	.98
	7.70	.35	.43		60	42	1.40			.150	.211	.99
	8.00	.30	.22		80	48	1.63			.066	.108	
	8.30	.30	.24		80	45	1.74			.072	.125	
○	8.60	.30	.25		80	40	1.95			.075	.146	1.00
	8.90	.30	.38		60	40	1.47			.114	.168	
	9.20	.30	.32		100	50	1.95			.096	.187	
	9.50	.30	.30		80	43	1.82			.090	.164	.99
	9.80	.30	.32		80	40	1.95			.096	.187	.98
	10.1	.30	.30		80	41	1.91			.090	.172	.97
	10.4	.30	.30		30	41	.734			.090	.066	.96
	10.7	.30	.28		60	44	1.34			.084	.112	
	11.0	.30	.28		50	47	1.05			.084	.088	.94
	11.3	.30	.21		50	48	1.03			.063	.064	.92
	11.6	.45	.20		25	43	.59			.09	.053	.90
	12.2	1.5	.20		15	58	.28			.30	.084	
	14.6	1.2			REW	@	1440			dischi	3.06 cfs	.85

.80

.70

.75