

GOOSE LAKE PROJECT - 1993 HYDROLOGY

STN: W2 METER: PRICE AA DATE: 25-Jun-93 Stf Gauge Height:0.64m
 HYDROL: J. Jemmet LOC: Wing Tip Creek Wetted Width: 4.7 m

DIST (m)	WIDTH (m)	DEPTH (m)	REV	TIME (s)	AREA (sq. m.)	DISCH (cu. m/s)	COMMENTS
0.70	0.70	0.70	23	30	0.245	0.4110	Left Bank/Float method: 0.5m/s
1.40	0.70	0.70	30	30	0.490	1.0712	
2.10	0.70	0.72	33	30	0.504	1.2117	
2.80	0.70	0.65	24	30	0.455	0.7963	
4.40	1.60	0.65	38	30	1.040	2.8781	
4.60	0.20	0.10	14	30	0.010	0.0102	
4.70	0.10		0	0			Right Bank
	4.70				2.744	6.3785	SUM
		0.587					AVERAGE

STN: W7 METER: PRICE AA DATE: 25-Jun-93 Stf Gauge Height:0.475 m @~0.5m from L. B
 HYDROL: J. Jemmet LOC: Goose Foot Ck. Wetted Width: ~34.8m

DIST (m)	WIDTH (m)	DEPTH (m)	REV	TIME (s)	AREA (sq. m.)	DISCH (cu. m/s)	COMMENTS
1.40	1.40	0.50	11	30	0.350	0.2819	Left Bank
2.40	1.00	0.45	30	30	0.450	0.9837	
4.40	2.00	0.39	37	30	0.780	2.1019	
6.40	2.00	0.30	45	30	0.600	1.9585	
8.40	2.00	0.36	30	30	0.720	1.5740	
10.40	2.00	0.40	28	30	0.800	1.6326	? fewer number of revs
12.40	2.00	0.25	35	30	0.500	1.2747	
14.40	2.00	0.27	36	30	0.540	1.4159	
16.40	2.00	0.29	31	30	0.580	1.3101	
18.40	2.00	0.37	17	30	0.740	0.9187	
20.40	2.00	0.25	25	30	0.500	0.9114	
22.40	2.00	0.27	31	30	0.540	1.2197	
24.40	2.00	0.19	27	30	0.380	0.7479	
26.40	2.00	0.20	29	30	0.400	0.8454	
28.40	2.00	0.29	17	30	0.580	0.7200	
30.40	2.00	0.28	11	30	0.560	0.4510	
32.40	2.00	0.23	9	30	0.460	0.3036	
34.40	2.00	0.26	12	30	0.520	0.4566	
34.70	0.30	0.12	16	30	0.018	0.0210	Right Bank
34.80	0.10		0	0			
	34.80				10.018	19.1288	SUM
		0.298					AVERAGE

STN: W6 METER: PRICE AA DATE: 25-Jun-93 Stf Gauge Height:0.64m
 HYDROL: J. Jemmet LOC: Goose Beak Ck. Wetted Width: 4.4 m

DIST (m)	WIDTH (m)	DEPTH (m)	REV	TIME (s)	AREA (sq. m.)	DISCH (cu. m/s)	COMMENTS
1.00	1.00	0.27	37	30	0.135	0.3638	Left Bank
1.50	0.50	0.37	40	30	0.185	0.5370	
2.00	0.50	0.40	48	30	0.200	0.6962	
2.50	0.50	0.65	26	30	0.325	0.6160	
3.00	0.50	0.76	33	30	0.380	0.9136	
3.50	0.50	0.40	18	30	0.200	0.2628	
4.00	0.50	0.25	5	30	0.063	0.0231	
4.40			0	0			Right Bank
	4.00				1.488	3.4125	SUM
		0.443					AVERAGE

DATE:	97/06/19
BY:	GUIGON, ADJUN
METER:	PRICE MINI
METHOD:	WADING
LOCATION:	GOOSE LAKE OUTFLOW
AIR TEMP:	26.1 C
WATER TEMP:	10.5 C
FIRST READING:	15:37 MDT
LAST READING:	16:37 MDT
STAGE READING:	100.128

NOTES:

STREAM BED BOULDERS AND COBBLES
STAFF GAUGE STILL APPEARS TO BE SOLIDLY ANCHORED
BRACING INSTALLED ANYWAY
DATA EXTRACTED FROM DATA LOGGER
MEMORY RESET AND SET TO HOURLY LOGGING

DISCHARGE MEASUREMENT

DATE: 97/06/30
 BY: ADJUN, MANNILAQ
 METER: PRICE MINI
 METHOD: WADING
 LOCATION: GOOSE LAKE OUTFLOW
 AIR TEMP:
 WATER TEMP:
 FIRST READING: 16:05 MDT
 LAST READING: 17:00 MDT
 STAGE READING: 100.32

DISTANCE FROM INITIAL POINT	WIDTH	DEPTH	DEPTH OF READING	REVOLUTIONS	TIME IN SECONDS	VELOCITY AT POINT (m/s)	MEAN VERTICAL VELOCITY (m/s)	AREA (m ²)	ANGLE COEFFICIENT	DISCHARGE (m ³ /s)
5.4	0.5	0								
7	1.8	0.26	0.6	3	60	0.0234		0.468		0.011
9	2	0.26	0.6	14	60	0.0780		0.52		0.041
11	2	0.3	0.6	22	60	0.1177		0.6		0.071
13	2	0.1	0.6	0	60			0.2		0.000
15	2	0.22	0.6	3	60	0.0234		0.44		0.010
17	2	0.18	0.6	6	60	0.0383		0.36		0.014
19	2	0.24	0.6	24	60	0.1277		0.48		0.061
21	2	0.26	0.6	13	60	0.0731		0.52		0.038
23	2	0.28	0.6	8	60	0.0482		0.56		0.027
25	2	0.2	0.6	22	60	0.1177		0.4		0.047
27	2	0.26	0.6	27	60	0.1425		0.52		0.074
29	2	0.3	0.6	22	60	0.1177		0.6		0.071
31	2	0.24	0.6	31	60	0.1624		0.48		0.078
33	2	0.26	0.6	11	60	0.0631		0.52		0.033
35	2	0.28	0.6	2	60	0.0185		0.56		0.010
37	2	0.24	0.6	5	60	0.0334		0.48		0.016
39	2	0.22	0.6	11	60	0.0631		0.44		0.028
41	2	0.28	0.6	4	60	0.0284		0.56		0.016
43	2	0.22	0.6	20	60	0.1078		0.44		0.047
45	2	0.18	0.6	19	60	0.1028		0.36		0.037
47	2	0.16	0.6	27	60	0.1425		0.32		0.046
49	2	0.18	0.6	16	60	0.0879		0.36		0.032
51	3.85	0.06	0.6	0	60			0.231		
56.7	2.85	0								
TOTALS 10.419										0.807

NOTES:

STREAM BED BOULDERS AND COBBLES - MORE ROCK BED SHOWING
 STAFF GAUGE STILL APPEARS TO BE SOLIDLY ANCHORED
 WILL DOWNLOAD STATION JULY 1ST - COMPUTER FROM OFFICE COULD NOT WORK FOR ME TODAY
 THERE IS STILL ICE BELOW METERING STATION IN LAKE
 LEFT BANK IS 56.7 - THEN A PUDDLE - THEN A ROCK BED - STARTED METERING FROM 51 m.
 SEEN (1) CARIBOU ABOVE METERING STATION AT RIGHT BANK
 WHILE HEADING TO ROOSTER - SEEN 4-6 CARIBOU ONE OF THE LAKES ICE EDGE
 HEADING BACK TO GEORGE LAKE CAMP FROM ROOSTER SEEN (12) MUSKOX ON FIRST RIDGES - NO YOUNG ONES

DISCHARGE MEASUREMENT

DATE: 97/07/27
 BY: ADJUN
 METER: PRICE MINI
 METHOD: WADING
 LOCATION: GOOSE LAKE OUTFLOW
 AIR TEMP:
 WATER TEMP:
 FIRST READING: 9:45 MDT
 LAST READING: 10:26 MDT
 STAGE READING: 99.946

DISTANCE FROM INITIAL POINT	WIDTH	DEPTH	DEPTH OF READING	REVOLUTIONS	TIME IN SECONDS	VELOCITY AT POINT (m/s)	MEAN VERTICAL VELOCITY (m/s)	AREA (m ²)	ANGLE COEFFICIENT	DISCHARGE (m ³ /s)
5.4	0.5	0								
6	1.3	0.12	0.6	0	60	0.0085		0.156		0.001
8	2	0.14	0.6	0	60	0.0085		0.28		0.002
10	2	0.08	0.6	0	60	0.0085		0.16		0.001
12	2	0.18	0.6	0	60	0.0085		0.36		0.003
14	2	0.1	0.6	0	60	0.0085		0.2		0.002
16	2	0.1	0.6	0	60	0.0085		0.2		0.002
18	2	0.14	0.6	0	60	0.0085		0.28		0.002
20	2	0.16	0.6	0	60	0.0085		0.32		0.003
22	2	0.14	0.6	0	60	0.0085		0.28		0.002
24	2	0.12	0.6	0	60	0.0085		0.24		0.002
26	2	0.16	0.6	0	60	0.0085		0.32		0.003
28	2	0.22	0.6	0	60	0.0085		0.44		0.004
30	2	0.2	0.6	0	60	0.0085		0.4		0.003
32	2	0.16	0.6	0	60	0.0085		0.32		0.003
34	2	0.18	0.6	0	60	0.0085		0.36		0.003
36	2	0.16	0.6	0	60	0.0085		0.32		0.003
38	2	0.18	0.6	0	60	0.0085		0.36		0.003
40	2	0.1	0.6	0	60	0.0085		0.2		0.002
42	2	0.08	0.6	0	60	0.0085		0.16		0.001
44	2	0.1	0.6	0	60	0.0085		0.2		0.002
46	1.5	0.28	0.6	0	60	0.0085		0.42		0.004
47	1	0.12	0.6	0	60	0.0085		0.12		0.001
48	1.5	0.06	0.6	0	60	0.0085		0.09		0.001
50	1.3	0.06	0.6	0	60	0.0085		0.078		0.001
50.6	0.3	0								
TOTALS 6.264										0.053

NOTES:

STREAM IS EXTREMELY LOW, ROCKS AND BOULDERS ALL ACROSS THE STREAM

LOST SMALL BOLT W/SCREW FOR PIN ON INSTRUMENT (HAVE ANOTHER ONE IN INSTRUMENT CASE)

NO FLOW AT ALL POINTS, MAY HAVE TO DO WITH LOSING BOLT

METERING TAPE BUSTED OFF TAPE DISPENSER, FIXED WHEN I GOT BACK TO GEORGE LAKE CAMP

STANDS TO HOLD STAKES WILL HAVE TO BE STABILIZED -TO HOLD THE TAPE ACROSS THE STREAM (WITH ROCKS OR PINS)