ARCTIC SLOPE ALASKA

15875000 COLVILLE RIVER AT UMIAT

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1969, 1975, 1978, 2002 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURE: August 2002 to current year.

INSTRUMENTATION. -- Electronic water-temperature recorder set for 1-hour recording interval.

REMARKS.--No record from October 1 to May 15, August 14 - 17, 21 - 29, and September 17 - 19, 27 - 30 due to water levels dropping below the sensor, the sensor encased in ice, or equipment malfunctions. Records represent watertemperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on July 27. A variation of 0.1°C was found in the cross section. The variation found between mean stream temperature and the recorded sensor temperature was 1.8°C. This difference is due to the location of the sensor which is in a backwater area of the stream during moderate to low flows.

EXTREMES FOR PERIOD OF RECORD.--WATER TEMPERATURE: Maximum, 18.5°C, July 2 and 26, 2004; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--WATER TEMPERATURE: Maximum, 15.5°C, July 26; minimum recorded 0.5°C, May 16-22.

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	tion in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instan- taneous dis- charge, cfs (00061)	Sam- pling method, code (82398)	Temper- ature, water, deg C (00010)	Temper- ature, air, deg C (00020)
JUL								
27	1247	384	40.0	43.91	5200	10	12.7	13.5
27	1248	384	120	43.91	5200	10	12.7	13.5
27	1249	384	200	43.91	5200	10	12.7	13.5
27	1250	384	280	43.91	5200	10	12.7	13.5
27	1251	384	360	43.91	5200	10	12.8	13.5

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
ŦŬ												
11												
12												
13												
14												
15												
16										0.5	0.5	0.5
17										0.5	0.0	0.5
18										0.5	0.5	0.5
19										0.5	0.5	0.5
20										1.0	0.5	0.5
21										0.5	0.5	0.5
22										0.5	0.5	0.5
23										1.0	0.5	0.5
24										1.5	0.5	0.5
25										1.0	0.5	0.5
26										1.5	0.5	0.5
27										1.5	0.5	0.5
28										2.0	0.5	1.0
29										2.5	1.0	2.0
30										2.5	2.0	2.0
31										3.0	2.0	2.5
MONTH												

ARCTIC SLOPE ALASKA

15875000 COLVILLE RIVER AT UMIAT—Continued

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE		JULY			AUGUST			SEPTEMBER		
1 2 3 4 5	3.0 3.0 2.0 2.0 4.0	2.0 2.0 1.5 1.5 1.5	2.5 2.5 1.5 1.5 2.0	14.5 14.0 11.5 10.5 9.5	10.5 11.5 10.0 8.5 8.5	12.5 13.0 10.5 9.5 9.0	12.0 12.5 13.0 12.5 10.5	8.0 8.0 8.5 8.5	10.0 10.0 10.5 10.5 9.5	10.0 9.0 9.0 8.5 8.5	7.5 8.5 8.0 8.0 6.0	8.5 8.5 8.5 8.0 7.5
6 7 8 9 10	5.0 4.5 4.5 4.0 4.0	3.0 2.0 3.5 3.0 3.5	4.5 4.0 3.5 3.5 3.5	9.0 11.5 10.0 9.5 9.0	7.0 6.0 7.0 7.5 7.5	8.0 9.0 8.0 8.5 8.0	12.0 11.0 12.0 12.0 13.0	9.0 9.0 8.5 9.5 9.0	10.0 10.0 10.0 10.5 10.5	7.0 8.0 9.0 7.0 8.5	5.0 7.0 7.0 4.5 6.0	6.0 7.5 7.5 5.5 7.0
11 12 13 14 15	4.5 4.5 5.5 7.5 8.5	3.5 3.5 4.0 5.0 7.0	4.0 4.0 4.5 6.0 7.5	11.0 11.0 12.0 13.0 13.5	8.5 10.0 10.0 11.5 12.0	10.0 10.5 11.0 12.0 12.5	11.0 14.0 14.0 	9.5 9.5 10.5 	10.0 11.0 12.5 	7.0 7.5 7.5 6.5 7.5	5.5 5.0 6.0 6.0 6.0	6.5 6.0 6.5 6.5 6.5
16 17 18 19 20	9.5 9.5 10.0 10.5 10.0	8.0 8.5 8.5 9.5 9.0	8.5 9.0 9.0 10.0 9.5	13.5 12.5 12.0 12.5 12.0	11.5 11.0 9.5 9.0 10.0	12.5 11.5 10.5 11.0 11.0	11.5 12.5 13.0	 7.0 7.5 7.5	9.0 10.0 10.5	7.5 5.5	5.0 5.0	6.0 5.5
21 22 23 24 25	10.0 9.5 9.5 10.5 12.0	8.5 8.0 8.0 8.5 9.0	9.5 8.5 8.5 9.5 10.5	12.0 13.0 13.5 13.5 13.5	9.0 9.5 9.5 9.0 8.5	10.5 11.0 11.5 11.0 10.5	 	 	 	6.0 5.0 5.5 5.5 4.5	5.0 4.0 4.0 4.5 3.0	5.5 4.5 4.5 5.0 3.5
26 27 28 29 30 31	13.0 12.5 15.0 15.0 13.5	9.5 10.5 11.5 13.0 10.5	11.0 11.5 13.0 14.0 12.0	15.5 12.0 12.0 11.5 11.0 12.0	7.5 6.5 8.5 8.0 8.5 8.0	$ \begin{array}{r} 11.5\\ 10.0\\ 10.0\\ 10.0\\ 9.5\\ 9.5\\ 9.5 \end{array} $	 10.0 9.5	 8.5 8.5 8.5	 9.0 8.5	3.0 3.5 	2.5	2.5
MONTH	15.0	1.5	7.0	15.5	6.0	10.4						