NECHAKO RIVER FLOW CONTROL 1997/1998

NECHAKO FISHERIES CONSERVATION PROGRAM
Data Report No. RM97-4

Prepared by:
Triton Environmental Consultants Ltd.

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ABSTRACT

The 1997/1998 Nechako River Flow Control Project was undertaken to ensure effective release of the Short Term Annual Water Allocation, as defined in the 1987 Settlement Agreement (Anon. 1987), which specifies a mean release of 36.8 m^3/s at Skins Lake Spillway with the intent of achieving a mean annual flow of 41.7 m^3/s in the Nechako River below Cheslatta Falls. Spilling beyond that required for the Short Term Annual Water Allocation occurred throughout the period resulting in higher than normal discharges. The recorded mean annual Skins Lake Spillway release was 123.5 m^3/s, and the mean annual flow in the Nechako River below Cheslatta Falls was recorded at 136.0 m^3/s. Excluding July and August cooling water releases and releases of excess water from the reservoir during the 1997/1998 water year (April 1, 1997 to March 31, 1998) indicate that the actual mean annual Skins Lake Spillway release was 37.0 m^3/s. This report presents a comparison of recorded mean annual and mean monthly flows and the Short Term Flow Regime defined in the Settlement Agreement.

INTRODUCTION

The Settlement Agreement specifies the Short Term and Long Term Annual Water Allocation from Nechako Reservoir and the Short Term and Long Term flow regime in the Nechako River below Cheslatta Falls. The Short Term Annual Water Allocation specifies a mean annual release of 36.8 m^3/s at Skins Lake Spillway with the intent of achieving a mean annual flow of 41.7 m^3/s in the Nechako River below Cheslatta Falls.

This report provides a summary of recorded mean daily Skins Lake Spillway releases and flows in the Nechako River below Cheslatta Falls for the period April 1, 1997 to March 31, 1998. Also included is a comparison of recorded mean monthly flows and Short Term Flow Regime, defined in the Settlement Agreement, for Skins Lake Spillway and the Nechako River below Cheslatta Falls.

In 1997 and 1998, spilling of excess water from the Nechako Reservoir occurred resulting in higher than normal discharges.

OBJECTIVE AND RATIONALE

The objective of the Nechako River flow management project is to ensure that the Short Term Annual Water Allocation, as set out in the Settlement Agreement is achieved effectively. This objective will be achieved by scheduling Nechako Reservoir releases appropriately to ensure the water allocation is utilized efficiently to produce a flow regime in the Nechako River most conducive to biological objectives.

DATA REQUIREMENTS AND SOURCES

Project data requirements include mean daily Skins Lake Spillway releases and mean daily flows in the Nechako River below Cheslatta Falls. Data for the period April 1, 1997 to March 31, 1998 are preliminary Water Survey of Canada (WSC) data and were obtained in response to ongoing data requests to WSC.

RESULTS

A comparison of Settlement Agreement and operational mean monthly Skins Lake Spillway releases is presented in Figure 1. The operational release is defined as the Water Survey of Canada recorded release made by Alcan in response to Nechako Fisheries Conservation Program (NFCP) direction, less forced spills and additional flows as required for cooling purposes, as per the 1997 Summer Water Temperature and Flow Management Project (Triton 1997). The mean annual release for the 1997/1998 water year was 37.0 m^3/s. The Settlement Agreement Short Term annual water allocation specifies a mean annual release of 36.8 m^3/s.

An operational release in excess of the specified 36.8 m^3/s was due to the nature of the required spillway gate settings (especially during winter months) in response to changing reservoir elevations. Spillway gate settings are established by Alcan in response to release recommendations made by Triton Environmental Consultants Ltd. (TECL) under the auspices

of the NFCP, and are based on the current reservoir elevation and anticipated reservoir inflow. During ice free conditions the spillway settings are reviewed periodically, typically weekly, to ensure the requested releases are achieved. Each year, during the fall, Alcan sets the gate(s) once for the entire upcoming winter. The winter release is typically set above the requested release in anticipation of the decreasing reservoir elevation due to low winter inflows. This release regulation scheme results in differences between the recorded releases and the annual water allocation specified in the Settlement Agreement.

A comparison of recorded and Settlement Agreement mean monthly flows in the Nechako River below Cheslatta Falls is presented in Figure 2. The Settlement Agreement Short Term annual water allocation specifies an approximate mean annual flow of 41.7 m^3/s in the Nechako River below Cheslatta Falls (plus additional flows as required for cooling purposes). Recorded mean daily Skins Lake Spillway releases and flow in the Nechako River below Cheslatta Falls for the 1997/1998 water year are presented in Table 1. The recorded mean annual Skins Lake Spillway release (including summer cooling water releases and spills) was 123.5 m^3/s. The recorded mean annual flow in the Nechako River below Cheslatta falls was 136.0 m^3/s.

The recorded inflow between Skins Lake Spillway and Nechako River below Cheslatta Falls is subject to gauging error in either, or both gauges. During dry years, the inflow may be less than the combined gauging error (approximately plus or minus 5% for each gauge) resulting in a recorded negative inflow between upstream and downstream gauging stations. During wet years, similar gauging error may be present, but the inflow may be in excess of the combined gauging error resulting in recorded positive inflow, although possibly less than the actual inflow.

Figure 1
Comparison Between Recorded and Settlement Agreement
Skins Lake Spillway Releases, April 1997 to March 1998

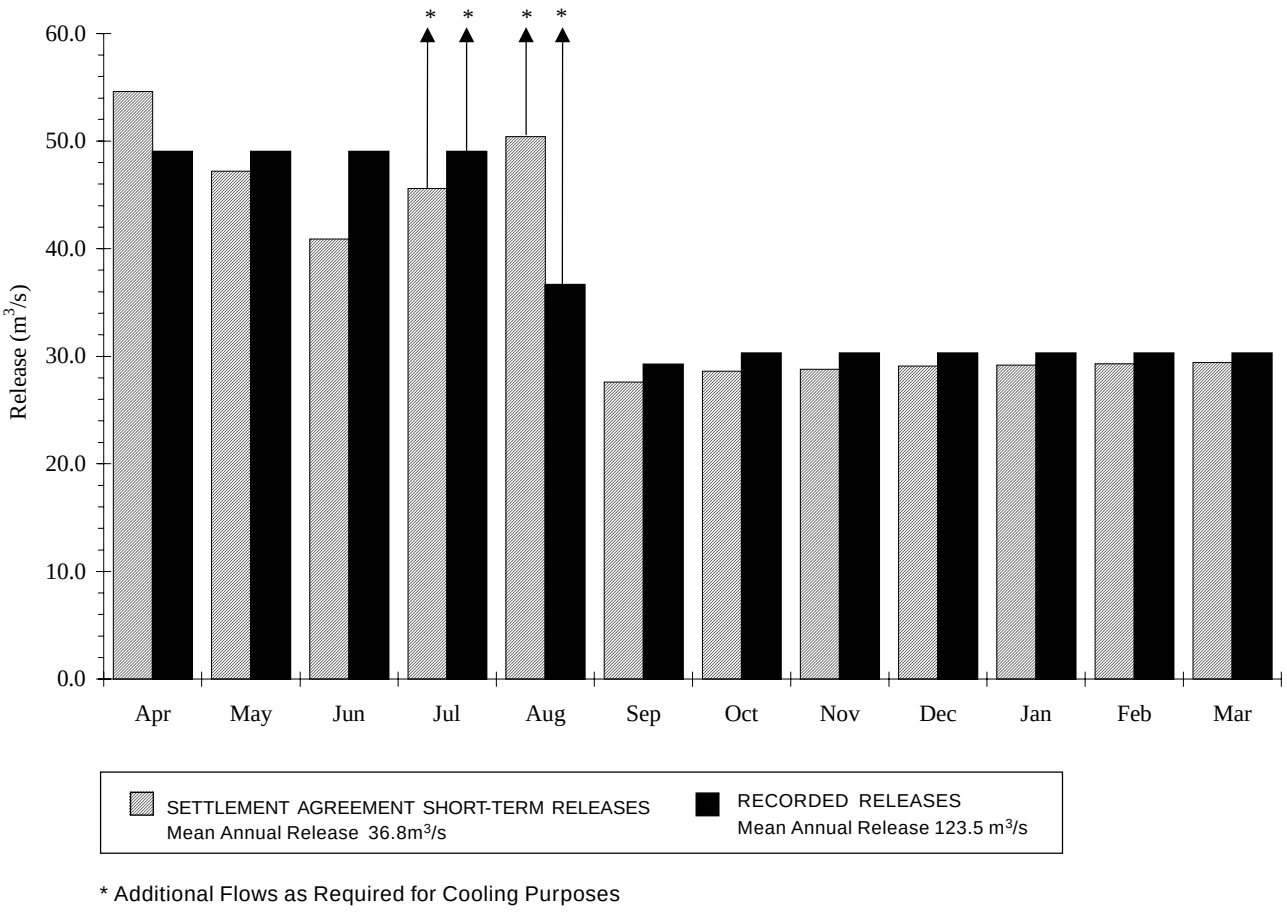
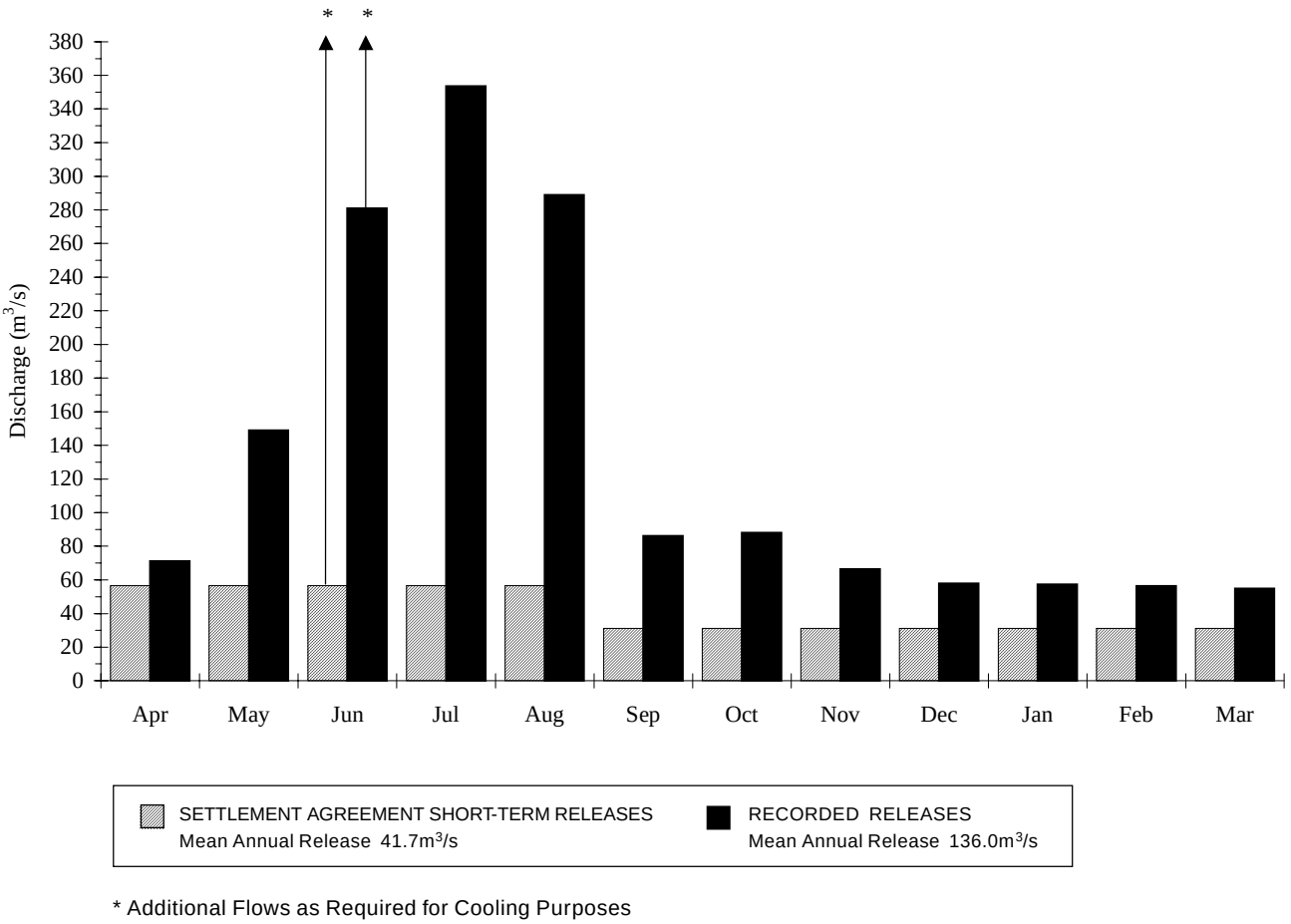


Figure 2
Comparison Between Recorded and Settlement Agreement Flows
in Nechako River Below Cheslatta Falls, April 1997 to March 1998



* Additional Flows as Required for Cooling Purposes

REFERENCES

Anonymous. 1987. Settlement Agreement 1997.

Triton Environmental Consultants Ltd. 1997. The 1997 Summer Water Temperature and Flow Management Project. Nechako Fisheries Conservation Program Technical Report No. RM96-1. In review.

Table 1
Observed Skins Lake Spillway Releases and Flows in Nechako River Below Cheslatta Falls
1997/1998 Water Year (April 1, 1997 to March 31, 1998)

Note: Records are preliminary WSC data

Date 1997/1998	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls		
	(m^3/s)	(cfs)	(m^3/s)		(cfs)
Apr-01	56.6	1,999	58.0		2,048
Apr-02	56.6	1,999	58.0		2,048
Apr-03	56.6	1,999	58.0		2,048
Apr-04	56.6	1,999	57.9		2,045
Apr-05	56.6	1,999	57.9		2,045
Apr-06	56.6	1,999	57.9	A	2,045
Apr-07	56.6	1,999	57.9	E	2,045
Apr-08	56.5	1,995	58.0	E	2,048
Apr-09	56.5	1,995	58.1	E	2,052
Apr-10	56.5	1,995	58.2	A	2,055
Apr-11	56.5	1,995	57.8		2,041
Apr-12	56.5	1,995	58.7		2,073
Apr-13	56.5	1,995	60.8		2,147
Apr-14	56.5	1,995	61.1		2,158
Apr-15	56.5	1,995	61.1		2,158
Apr-16	56.5	1,995	63.3		2,235
Apr-17	56.5	1,995	64.9		2,292
Apr-18	56.5	1,995	67.2		2,373
Apr-19	56.5	1,995	69.4		2,451
Apr-20	56.5	1,995	72.1		2,546
Apr-21	56.5	1,995	74.2		2,620
Apr-22	56.5	1,995	76.6		2,705
Apr-23	56.5	1,995	80.4		2,839
Apr-24	56.5	1,995	83.4		2,945
Apr-25	56.5	1,995	87.4		3,087
Apr-26	56.5	1,995	92.4		3,263
Apr-27	56.6	1,999	100.0		3,532
Apr-28	56.7	2,002	104.0		3,673
Apr-29	56.7	2,002	107.0		3,779
Apr-30	56.8	2,006	109.0		3,849
May-01	72.7	2,567	111.0		3,920
May-02	85.0	3,002	112.0		3,955
May-03	85.1	3,005	115.0		4,061
May-04	85.2	3,009	120.0		4,238
May-05	85.4	3,016	124.0		4,379
May-06	85.6	3,023	128.0		4,520
May-07	85.7	3,026	132.0		4,662
May-08	85.9	3,034	135.0		4,768
May-09	86.1	3,041	137.0		4,838
May-10	86.3	3,048	138.0		4,873
May-11	86.4	3,051	139.0		4,909

Table 1 (continued)
Observed Skins Lake Spillway Releases and Flows in Nechako River Below Cheslatta Falls
1997/1998 Water Year (April 1, 1997 to March 31, 1998)

Note: Records are preliminary WSC data

Date 1997/1998	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m^3/s)	(cfs)	(m^3/s)	(cfs)
May-12	86.6	3,058	140.0	4,944
May-13	86.8	3,065	140.0	4,944
May-14	87.1	3,076	141.0	4,979
May-15	87.5	3,090	142.0	5,015
May-16	122.0	4,308	143.0	5,050
May-17	143.0	5,050	145.0	5,121
May-18	144.0	5,085	151.0	5,333
May-19	144.0	5,085	157.0	5,544
May-20	145.0	5,121	162.0	5,721
May-21	145.0	5,121	165.0	5,827
May-22	145.0	5,121	167.0	5,898
May-23	146.0	5,156	169.0	5,968
May-24	146.0	5,156	170.0	6,004
May-25	146.0	5,156	171.0	6,039
May-26	146.0	5,156	171.0	6,039
May-27	147.0	5,191	171.0	6,039
May-28	180.0	6,357	172.0	6,074
May-29	199.0	7,028	176.0	6,215
May-30	199.0	7,028	183.0	6,463
May-31	200.0	7,063	190.0	6,710
Jun-01	201.0	7,098	195.0	6,886
Jun-02	201.0	7,098	199.0	7,028
Jun-03	202.0	7,134	202.0	7,134
Jun-04	202.0	7,134	208.0	7,346
Jun-05	238.0	8,405	212.0	7,487
Jun-06	255.0	9,005	221.0	7,805
Jun-07	256.0	9,041	231.0	8,158
Jun-08	256.0	9,041	240.0	8,476
Jun-09	257.0	9,076	247.0	8,723
Jun-10	274.0	9,676	252.0	8,899
Jun-11	283.0	9,994	262.0	9,253
Jun-12	284.0	10,029	271.0	9,570
Jun-13	284.0	10,029	280.0	9,888
Jun-14	285.0	10,065	285.0	10,065
Jun-15	285.0	10,065	291.0	10,277
Jun-16	286.0	10,100	294.0	10,383
Jun-17	286.0	10,100	297.0	10,489
Jun-18	287.0	10,135	300.0	10,595
Jun-19	287.0	10,135	301.0	10,630
Jun-20	300.0	10,595	303.0	10,700
Jun-21	340.0	12,007	306.0	10,806

Table 1 (continued)
Observed Skins Lake Spillway Releases and Flows in Nechako River Below Cheslatta Falls
1997/1998 Water Year (April 1, 1997 to March 31, 1998)

Note: Records are preliminary WSC data

Date 1997/1998	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m^3/s)	(cfs)	(m^3/s)	(cfs)
Jun-22	341.0	12,042	316.0	11,160
Jun-23	341.0	12,042	324.0	11,442
Jun-24	341.0	12,042	330.0	11,654
Jun-25	342.0	12,078	335.0	11,831
Jun-26	342.0	12,078	340.0	12,007
Jun-27	342.0	12,078	343.0	12,113
Jun-28	342.0	12,078	345.0	12,184
Jun-29	342.0	12,078	347.0	12,254
Jun-30	342.0	12,078	349.0	12,325
Jul-01	342.0	12,078	350.0	12,360
Jul-02	342.0	12,078	352.0	12,431
Jul-03	342.0	12,078	353.0	12,466
Jul-04	342.0	12,078	354.0	12,502
Jul-05	342.0	12,078	360.0	12,713
Jul-06	342.0	12,078	360.0	12,713
Jul-07	342.0	12,078	357.0	12,607
Jul-08	342.0	12,078	358.0	12,643
Jul-09	342.0	12,078	357.0	12,607
Jul-10	340.0	12,007	355.0	12,537
Jul-11	342.0	12,078	350.0	12,360
Jul-12	342.0	12,078	350.0	12,360
Jul-13	341.0	12,042	350.0	12,360
Jul-14	341.0	12,042	351.0	12,396
Jul-15	341.0	12,042	352.0	12,431
Jul-16	341.0	12,042	351.0	12,396
Jul-17	341.0	12,042	351.0	12,396
Jul-18	340.0	12,007	351.0	12,396
Jul-19	340.0	12,007	353.0	12,466
Jul-20	340.0	12,007	355.0	12,537
Jul-21	340.0	12,007	355.0	12,537
Jul-22	339.0	11,972	355.0	12,537
Jul-23	339.0	11,972	354.0	12,502
Jul-24	339.0	11,972	354.0	12,502
Jul-25	338.0	11,936	354.0	12,502
Jul-26	338.0	11,936	354.0	12,502
Jul-27	337.0	11,901	353.0	12,466
Jul-28	337.0	11,901	354.0	12,502
Jul-29	337.0	11,901	354.0	12,502
Jul-30	336.0	11,866	353.0	12,466
Jul-31	336.0	11,866	353.0	12,466
Aug-01	335.0	11,831	351.0	12,396

Table 1 (continued)
Observed Skins Lake Spillway Releases and Flows in Nechako River Below Cheslatta Falls
1997/1998 Water Year (April 1, 1997 to March 31, 1998)

Note: Records are preliminary WSC data

Date 1997/1998	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls		
	(m^3/s)	(cfs)	(m^3/s)		(cfs)
Aug-02	335.0	11,831	352.0		12,431
Aug-03	334.0	11,795	351.0		12,396
Aug-04	334.0	11,795	351.0		12,396
Aug-05	333.0	11,760	351.0		12,396
Aug-06	333.0	11,760	350.0		12,360
Aug-07	333.0	11,760	348.0		12,290
Aug-08	332.0	11,725	347.0		12,254
Aug-09	331.0	11,689	345.0		12,184
Aug-10	331.0	11,689	344.0		12,148
Aug-11	330.0	11,654	343.0		12,113
Aug-12	330.0	11,654	344.0		12,148
Aug-13	329.0	11,619	345.0	A	12,184
Aug-14	329.0	11,619	344.0	E	12,148
Aug-15	328.0	11,583	343.0	E	12,113
Aug-16	328.0	11,583	342.0	E	12,078
Aug-17	327.0	11,548	341.0	E	12,042
Aug-18	326.0	11,513	341.0	A	12,042
Aug-19	326.0	11,513	339.0		11,972
Aug-20	325.0	11,477	338.0		11,936
Aug-21	42.4	1,497	325.0		11,477
Aug-22	42.3	1,494	286.0		10,100
Aug-23	42.3	1,494	247.0		8,723
Aug-24	42.3	1,494	215.0		7,593
Aug-25	42.3	1,494	188.0		6,639
Aug-26	42.3	1,494	168.0		5,933
Aug-27	42.4	1,497	150.0		5,297
Aug-28	42.3	1,494	134.0		4,732
Aug-29	42.3	1,494	122.0		4,308
Aug-30	42.3	1,494	111.0		3,920
Aug-31	42.2	1,490	103.0		3,637
Sep-01	42.2	1,490	95.2		3,362
Sep-02	54.9	1,939	88.8		3,136
Sep-03	85.4	3,016	84.0		2,966
Sep-04	85.5	3,019	82.3		2,906
Sep-05	85.3	3,012	82.3		2,906
Sep-06	85.3	3,012	82.4		2,910
Sep-07	85.2	3,009	82.4		2,910
Sep-08	85.2	3,009	82.5		2,913
Sep-09	85.1	3,005	82.6		2,917
Sep-10	85.0	3,002	83.2		2,938
Sep-11	85.0	3,002	83.3		2,942

Table 1 (continued)
Observed Skins Lake Spillway Releases and Flows in Nechako River Below Cheslatta Falls
1997/1998 Water Year (April 1, 1997 to March 31, 1998)

Note: Records are preliminary WSC data

Date 1997/1998	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m^3/s)	(cfs)	(m^3/s)	(cfs)
Sep-12	84.9	2,998	83.5	2,949
Sep-13	84.8	2,995	84.3	2,977
Sep-14	84.9	2,998	85.4	3,016
Sep-15	83.9	2,963	85.8	3,030
Sep-16	86.3	3,048	87.2	3,079
Sep-17	86.3	3,048	86.6	3,058
Sep-18	86.3	3,048	87.2	3,079
Sep-19	86.3	3,048	87.8	3,101
Sep-20	86.2	3,044	87.9	3,104
Sep-21	86.2	3,044	87.9	3,104
Sep-22	86.1	3,041	87.8	3,101
Sep-23	86.1	3,041	87.7	3,097
Sep-24	86.0	3,037	87.7	3,097
Sep-25	86.0	3,037	87.6	3,094
Sep-26	86.0	3,037	87.9	3,104
Sep-27	85.9	3,034	88.6	3,129
Sep-28	85.9	3,034	88.8	3,136
Sep-29	85.8	3,030	88.8	3,136
Sep-30	85.8	3,030	88.7	3,132
Oct-01	85.8	3,030	88.6	3,129
Oct-02	85.8	3,030	88.6	3,129
Oct-03	85.8	3,030	88.5	3,125
Oct-04	85.7	3,026	88.4	3,122
Oct-05	85.7	3,026	88.4	3,122
Oct-06	85.7	3,026	88.3	3,118
Oct-07	85.5	3,019	88.0	3,108
Oct-08	85.3	3,012	87.6	3,094
Oct-09	85.4	3,016	87.5	3,090
Oct-10	85.3	3,012	87.7	3,097
Oct-11	85.3	3,012	87.8	3,101
Oct-12	85.2	3,009	87.9	3,104
Oct-13	85.3	3,012	88.0	3,108
Oct-14	85.3	3,012	88.0	3,108
Oct-15	85.3	3,012	88.0	3,108
Oct-16	85.6	3,023	88.1	3,111
Oct-17	85.6	3,023	88.1	3,111
Oct-18	85.6	3,023	88.1	3,111
Oct-19	85.6	3,023	88.2	3,115
Oct-20	85.6	3,023	88.2	3,115
Oct-21	85.6	3,023	88.2	3,115
Oct-22	85.6	3,023	88.3	3,118

Table 1 (continued)
Observed Skins Lake Spillway Releases and Flows in Nechako River Below Cheslatta Falls
1997/1998 Water Year (April 1, 1997 to March 31, 1998)

Note: Records are preliminary WSC data

Date 1997/1998	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m^3/s)	(cfs)	(m^3/s)	(cfs)
Oct-23	85.6	3,023	88.3	3,118
Oct-24	85.5	3,019	88.3	3,118
Oct-25	85.5	3,019	88.3	3,118
Oct-26	85.5	3,019	88.3	3,118
Oct-27	85.5	3,019	88.3	3,118
Oct-28	85.5	3,019	88.2	3,115
Oct-29	57.3	2,024	88.1	3,111
Oct-30	57.3	2,024	87.9	3,104
Oct-31	57.3	2,024	87.6	3,094
Nov-01	57.3	2,024	84.9	2,998
Nov-02	57.3	2,024	81.9	2,892
Nov-03	57.3	2,024	79.9	2,822
Nov-04	57.3	2,024	77.9	2,751
Nov-05	57.4	2,027	75.6	2,670
Nov-06	57.4	2,027	73.6	2,599
Nov-07	57.4	2,027	71.8	2,536
Nov-08	57.3	2,024	70.0	2,472
Nov-09	57.3	2,024	68.4	2,416
Nov-10	57.3	2,024	67.4	2,380
Nov-11	57.3	2,024	66.7	2,356
Nov-12	57.3	2,024	66.0	2,331
Nov-13	57.2	2,020	65.1	2,299
Nov-14	57.2	2,020	64.3	2,271
Nov-15	57.2	2,020	63.9	2,257
Nov-16	57.1	2,016	63.3	2,235
Nov-17	57.1	2,016	62.9	2,221
Nov-18	57.1	2,016	62.5	2,207
Nov-19	57.0	2,013	62.0	2,190
Nov-20	57.0	2,013	61.6	2,175
Nov-21	57.0	2,013	61.3	2,165
Nov-22	56.9	2,009	60.9	2,151
Nov-23	56.9	2,009	60.5	2,137
Nov-24	56.9	2,009	60.4	2,133
Nov-25	56.9	2,009	60.2	2,126
Nov-26	56.8	2,006	60.0	2,119
Nov-27	56.8	2,006	59.7	2,108
Nov-28	56.8	2,006	59.6	2,105
Nov-29	56.7	2,002	59.5	2,101
Nov-30	56.7	2,002	59.4	2,098
Dec-01	56.7	2,002	59.2	2,091
Dec-02	56.7	2,002	59.0	2,084

Table 1 (continued)
Observed Skins Lake Spillway Releases and Flows in Nechako River Below Cheslatta Falls
1997/1998 Water Year (April 1, 1997 to March 31, 1998)

Note: Records are preliminary WSC data

Date 1997/1998	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls		
	(m^3/s)	(cfs)	(m^3/s)		(cfs)
Dec-03	56.6	1,999	58.8		2,077
Dec-04	56.5	1,995	58.6		2,069
Dec-05	56.5	1,995	58.4		2,062
Dec-06	56.5	1,995	58.3		2,059
Dec-07	56.5	1,995	58.2		2,055
Dec-08	56.4	1,992	58.1		2,052
Dec-09	56.4	1,992	58.1		2,052
Dec-10	56.3	1,988	58.0		2,048
Dec-11	56.3	1,988	57.8		2,041
Dec-12	56.3	1,988	57.7		2,038
Dec-13	56.3	1,988	57.7		2,038
Dec-14	56.3	1,988	57.7		2,038
Dec-15	56.3	1,988	57.7		2,038
Dec-16	56.3	1,988	57.7		2,038
Dec-17	56.3	1,988	57.6		2,034
Dec-18	56.2	1,985	57.6		2,034
Dec-19	56.2	1,985	57.6		2,034
Dec-20	56.2	1,985	57.6		2,034
Dec-21	56.2	1,985	57.6		2,034
Dec-22	56.1	1,981	57.6		2,034
Dec-23	56.1	1,981	57.6		2,034
Dec-24	56.1	1,981	57.6		2,034
Dec-25	56.1	1,981	57.6		2,034
Dec-26	56.0	1,978	57.5		2,031
Dec-27	56.0	1,978	57.5		2,031
Dec-28	55.9	1,974	57.5		2,031
Dec-29	55.9	1,974	57.5		2,031
Dec-30	55.9	1,974	57.4		2,027
Dec-31	55.8	1,971	57.4		2,027
Jan-01	55.8	1,971			
Jan-02	55.8	1,971			
Jan-03	55.7	1,967			
Jan-04	55.7	1,967			
Jan-05	55.6	1,964			
Jan-06	55.6	1,964	56.7	A	2,002
Jan-07	55.6	1,964	56.8		2,006
Jan-08	55.5	1,960	56.9		2,009
Jan-09	55.5	1,960	57.0		2,013
Jan-10	55.4	1,956	57.1		2,016
Jan-11	55.4	1,956	57.3		2,024
Jan-12	55.3	1,953	57.7		2,038

Table 1 (continued)
Observed Skins Lake Spillway Releases and Flows in Nechako River Below Cheslatta Falls
1997/1998 Water Year (April 1, 1997 to March 31, 1998)

Note: Records are preliminary WSC data

Date 1997/1998	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m^3/s)	(cfs)	(m^3/s)	(cfs)
Jan-13	55.3	1,953	57.7	2,038
Jan-14	55.2	1,949	57.6	2,034
Jan-15	55.2	1,949	57.6	2,034
Jan-16	55.2	1,949	57.4	2,027
Jan-17	55.2	1,949	57.2	2,020
Jan-18	55.1	1,946	56.9	2,009
Jan-19	55.1	1,946	56.7	2,002
Jan-20	55.0	1,942	57.4	2,027
Jan-21	55.0	1,942	57.7	2,038
Jan-22	55.0	1,942	57.7	2,038
Jan-23	54.9	1,939	57.6	2,034
Jan-24	54.9	1,939	57.6	2,034
Jan-25	54.9	1,939	57.6	2,034
Jan-26	54.8	1,935	57.5	2,031
Jan-27	54.8	1,935	57.5	2,031
Jan-28	54.7	1,932	57.5	2,031
Jan-29	54.7	1,932	57.4	2,027
Jan-30	54.7	1,932	57.4	2,027
Jan-31	54.6	1,928	57.3	2,024
Feb-01	54.6	1,928	57.3	2,024
Feb-02	54.5	1,925	57.2	2,020
Feb-03	54.5	1,925	57.2	2,020
Feb-04	54.4	1,921	57.1	2,016
Feb-05	54.4	1,921	57.1	2,016
Feb-06	54.3	1,918	57.0	2,013
Feb-07	54.3	1,918	57.0	2,013
Feb-08	54.3	1,918	56.9	2,009
Feb-09	54.2	1,914	56.9	2,009
Feb-10	54.2	1,914	56.8	2,006
Feb-11	54.1	1,911	56.6	1,999
Feb-12	54.1	1,911	56.5	1,995
Feb-13	54.1	1,911	56.3	1,988
Feb-14	54.0	1,907	56.1	1,981
Feb-15	54.0	1,907	56.0	1,978
Feb-16	53.9	1,903	56.0	1,978
Feb-17	53.9	1,903	56.0	1,978
Feb-18	53.8	1,900	55.9	1,974
Feb-19	53.8	1,900	55.9	1,974
Feb-20	53.7	1,896	55.9	1,974
Feb-21	53.7	1,896	55.9	1,974
Feb-22	53.6	1,893	55.8	1,971

Table 1 (continued)
Observed Skins Lake Spillway Releases and Flows in Nechako River Below Cheslatta Falls
1997/1998 Water Year (April 1, 1997 to March 31, 1998)

Note: Records are preliminary WSC data

Date 1997/1998	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m^3/s)	(cfs)	(m^3/s)	(cfs)
Feb-23	53.6	1,893	55.8	1,971
Feb-24	53.5	1,889	55.8	1,971
Feb-25	53.5	1,889	55.8	1,971
Feb-26	53.4	1,886	55.8	1,971
Feb-27	53.4	1,886	55.7	1,967
Feb-28	53.3	1,882	55.7	1,967
Mar-01	53.3	1,882	55.7	1,967
Mar-02	53.2	1,879	55.7	1,967
Mar-03	53.2	1,879	55.7	1,967
Mar-04	53.1	1,875	55.8	1,971
Mar-05	53.1	1,875	55.8	1,971
Mar-06	53.0	1,872	55.8	1,971
Mar-07	52.9	1,868	55.6	1,964
Mar-08	52.9	1,868	55.5	1,960
Mar-09	52.8	1,865	55.4	1,956
Mar-10	52.8	1,865	55.1	1,946
Mar-11	52.8	1,865	54.9	1,939
Mar-12	52.7	1,861	54.9	1,939
Mar-13	52.7	1,861	54.8	1,935
Mar-14	52.6	1,858	54.7	1,932
Mar-15	52.6	1,858	54.6	1,928
Mar-16	52.5	1,854	54.6	1,928
Mar-17	52.5	1,854	54.5	1,925
Mar-18	52.4	1,851	54.5	1,925
Mar-19	52.4	1,851	54.5	1,925
Mar-20	52.3	1,847	54.5	1,925
Mar-21	52.3	1,847	54.5	1,925
Mar-22	52.2	1,843	54.4	1,921
Mar-23	52.2	1,843	54.3	1,918
Mar-24	52.2	1,843	54.2	1,914
Mar-25	52.1	1,840	54.2	1,914
Mar-26	52.1	1,840	54.1	1,911
Mar-27	52.0	1,836	54.1	1,911
Mar-28	52.0	1,836	54.1	1,911
Mar-29	51.9	1,833	54.0	1,907
Mar-30	51.8	1,829	54.0	1,907
Mar-31	51.8	1,829	54.0	1,907
Mean Annual	123.5	4,362	136.0	4,738

A-Manual Gauge B-Ice Conditions E-Estimated