THE 2014 SUMMER WATER TEMPERATURE AND FLOW MANAGEMENT PROJECT

Prepared by: Triton Environmental Consultants Ltd.

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ABSTRACT

The 2014 Nechako River Summer Water Temperature and Flow Management Project (the Project) was undertaken to attempt to prevent mean daily water temperatures in the Nechako River above the Stuart River confluence (at Finmoore) from exceeding 20.0°C (68.0°F) between July 20 and August 20. Water temperatures were managed by regulating Skins Lake Spillway releases to control flows in the Nechako River below Cheslatta Falls and at Vanderhoof. In 2014, mean daily water temperatures in the Nechako River above the Stuart River confluence did exceed 20.0°C (68.0°F) on July 29, July 30, and August 12 through August 14, reaching a maximum temperature of 20.4°C (68.8°F) on August 13. The first ten exceedances occurred prior to the water temperature control period and the latter exceedances occurred when the river discharge was at the maximum permitted under the operating protocol.

Over the duration of the 2014 Summer Water Temperature and Flow Management Project (July 10 to August 20), the total volume of water released was 8,984.4 m³/s-d, (317,284 cfs-d), and the average release during the Project was 213.9 m³/s (7,554.4 cfs).

INTRODUCTION

The Nechako River Summer Water Temperature and Flow Management Project (the Project) was designed and developed in 1982 and has been successfully implemented since 1983. Since 1988, water temperature and flow management projects (Triton 1995a through Triton 1995h; Triton 1996 through Triton 2010; Triton 2013) have been carried out under the auspices of the Nechako Fisheries Conservation Program (NFCP).

The objective of the Project is to attempt to prevent mean daily water temperatures in the Nechako River above the Stuart River confluence (at Finmoore) from exceeding 20.0°C (68.0°F) by regulating releases from the Skins Lake Spillway to control flows in the Nechako River below Cheslatta Falls and at Vanderhoof. The Project operates from July 10 to August 20 (the operational period) with the goal of managing water temperatures in the Nechako River at Finmoore between July 20 and August 20 (the water temperature control period, hereafter referred to as the control period). These dates may vary as directed by the NFCP in accordance with the timing of sockeye runs in the system, but were followed in 2014. At the completion of the Project, flows in the Nechako River at Cheslatta Falls are reduced to fall spawning flows by early September.

The Project study area is shown in Figure 1. Unless otherwise stated, references to water temperature, flow (including releases), and meteorological data are mean daily values. Note that water temperature measurements for the Nechako River above the Stuart River confluence are made at Finmoore (the closest readily accessible location) while discharge measurements are made Vanderhoof (at the Water Survey of Canada discharge measuring site).

This report reviews the 2014 Summer Water Temperature and Flow Management Project and includes:

- An outline of the method for determining Skins Lake Spillway releases and summaries of the 2014 Skins Lake Spillway releases for the period July 10 to August 20 inclusive;
- Recorded flows and water temperatures (July 10 to August 20) at various locations along the Nechako River; and,
- The volume of cooling water used in the 2014 Summer Water Temperature and Flow Management Project.

METHODS

Management of the Nechako River flows and water temperatures used water temperature predictions based on five-day meteorological forecasts provided by Environment Canada to determine the schedule of Skins Lake Spillway releases required to meet project objectives. The Summer Water Temperature and Management uses an unsteady-state flow routing model and an unsteady-state water temperature prediction model designed to compute daily flows and water temperatures in Nechako River the during operational period (Envirocon Limited, 1984a,b,c and 1985).

Daily operations followed the protocol defined in the Settlement Agreement (Anon. 1987), and involved collection of water temperature and river stage and discharge data from several locations in the study area, as well as development of five-day meteorological forecasts.

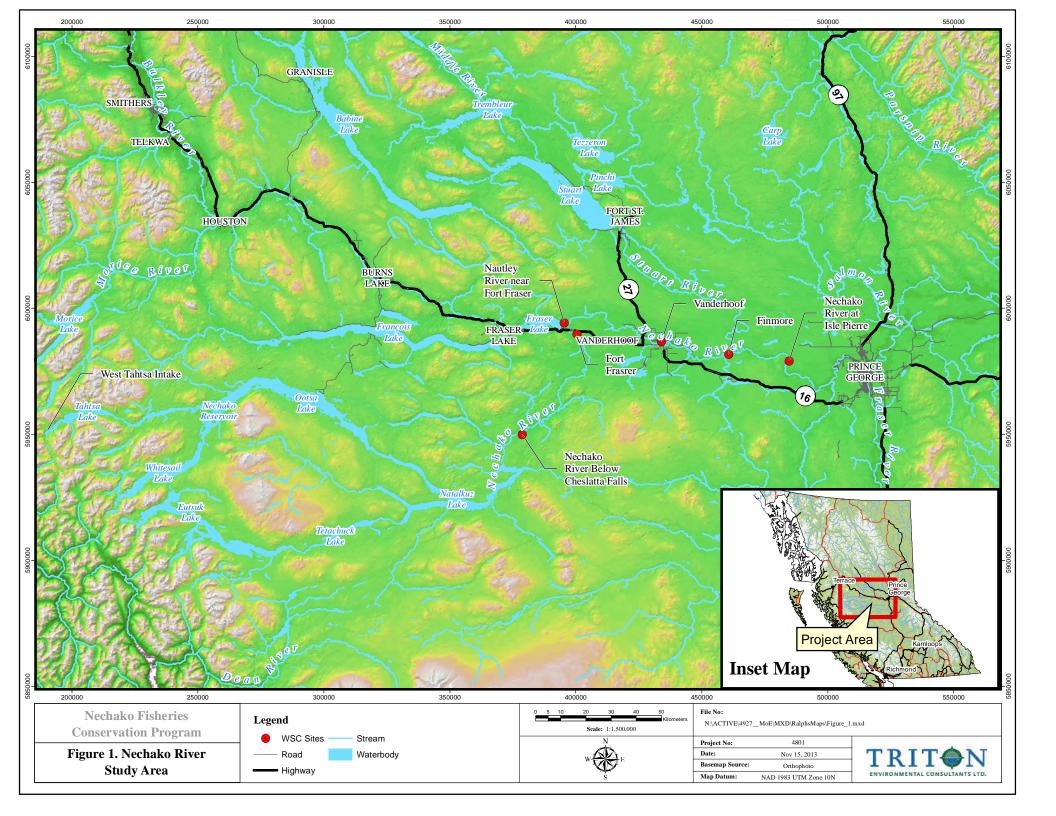
Water temperatures were obtained daily from temperature loggers maintained in the Nechako River below Cheslatta Falls (at Bert Irvine's Lodge), in the Nechako River at Fort Fraser (upstream of the Nautley River), in the Nechako River above the Stuart River confluence, and in the Nautley River. Water temperature data for the Nechako River below Cheslatta Falls and the Nautley River were provided by Water Survey of Canada. Water temperature data in the Nechako River at Fort Fraser and in the Nechako River above the Stuart River confluence were obtained using Unidata 6570A temperature probes which were then downloaded via satellite from the Rom Communications website.

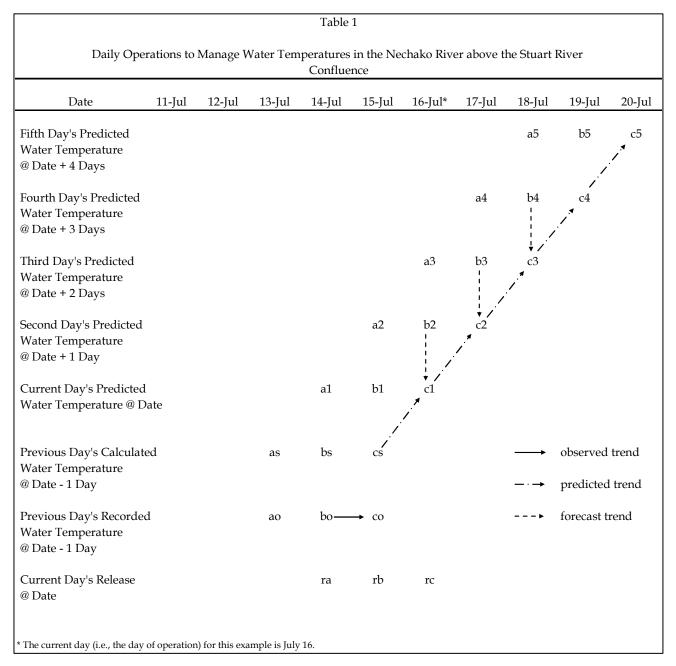
River stages were obtained daily from Water Survey of Canada recorders maintained in the Nechako River below Cheslatta Falls, in the Nechako River at Vanderhoof, and in the Nautley River, and were obtained daily via the Environment Canada (Water Survey of Canada, WSC) website (www.wateroffice.ec.gc.ca). Five-day meteorological forecasts were

downloaded daily from Environment Canada's server.

The first 10 days of the operational period, July 10 to July 19, were utilized for system start up, for initialization of the database required to schedule Skins Lake Spillway releases, and to increase flows in the Nechako River from spring flows to the minimum cooling flow of 170 m³/s (6,000 cfs) below Cheslatta Falls. The 2014 Skins Lake Spillway spring base release as directed by the NFCP was 49.0 m³/s (1,730 cfs). Upon commencement of the operational period on July 10, the recorded flow in the Nechako River below Cheslatta Falls was 46.9 m³/s (1,655 cfs). The Skins Lake Spillway was increased to 136 m³/s (4,802 cfs) on July 11 and to 226.5 m³/s (8,000 cfs) on July 13 to ensure flows in the Nechako River below Cheslatta Falls reached the minimum cooling flow of 170 m³/s (6,000 cfs) by July 20 (the beginning of the water temperature control period).

Throughout the operational period, water temperatures in the Nechako River were calculated daily for the previous day, the current day, and each of the next four days using the unsteady-state flow routing and water temperature prediction models. These calculations were based on recorded and five-day forecast meteorological data, recorded water temperature, and computed flow data. Forecast water temperature predictions were tabulated and reviewed daily to identify trends in water temperature changes





These trends are the same as those used in the water temperature and flow management projects since 1984 (Envirocon Ltd. 1985), and are best explained through reference to Table 1.

Assuming the current day is July 16, entries corresponding to the current day's operation are represented by the letter *c*. Entries *co* and *cs* represent the recorded and calculated water temperatures, respectively, for the previous day (July 15).

Entries *c1* through *c5* represent predicted water temperatures computed using the current day's five-day meteorological forecast and an assumed current day's flow regime. The entry *rc* represents the current day Skins Lake Spillway release required to meet Project objectives.

The following three trends in water temperature changes were reviewed on a dayby-day basis:

- 1. Observed trend developed from recorded mean daily temperatures measured in the Nechako River above the Stuart River confluence each day (bo and co in Table 1). The difference in recorded temperatures for the previous two days is extrapolated over the next five days to determine the observed water temperature trend.
- 2. Predicted trend developed from the predicted water temperatures for the previous day and the following five days (*cs, c1, c2, c3, c4, c5,* in Table 1). These data represent the predicted trend.
- 3. Forecast trend developed from the difference between the current five-day and previous five-day predictions for the same calendar days (*c*3 and *b*4, *c*2 and *b*3, *c*1 and *b*2 in Table 1). Differences between forecasted data on coincident dates for the current day and the next two days only are averaged and added to the fifth day predicted temperature to determine the trend in forecasted temperatures.

A numerical example of how the trends are calculated is presented in Appendix A.

Each day predicted water temperatures for the five-day forecast period were checked and the three trends calculated. If two of the three trends indicated that the water temperature in the Nechako River above the Stuart River confluence could potentially exceed 19.4°C (67.0°F) then an increase in the Skins Lake Spillway release was required. When this occurred the current day's release was revised and the flow and temperature models were rerun using the modified flow regime. Results of each day's final computer run were subsequently used to initialize water temperatures for the following day's computations. Entries in Table 1 represent each day's final cooling water release and resultant predicted water temperatures.

The following release criteria were used with the three trends identified above to determine the timing and magnitude of Skins Lake Spillway releases:

- 1. When two of the three trends show an increase in water temperature in the Nechako River above the Stuart River confluence, and these trends show that potentially the water temperature could exceed 19.4°C (67.0°F), increase the Skins Lake Spillway release according to criteria 2 and 3 below.
- 2. Operate Skins Lake Spillway such that flow in the Nechako River below Cheslatta Falls ranges between 170 m³/s (6,000 cfs) and 283 m³/s (10,000 cfs) as required, and flow in the Nechako River above the Stuart River confluence (as measured at Vanderhoof) does not exceed 340 m³/s (12,000 cfs). It is understood that the flow in the Nechako River below Cheslatta Falls is to be not less than 170 m³/s (6,000 cfs) by the beginning of the control period, and is to be reduced to approximately 31.9 m³/s (1,124 cfs) by September 1.
- 3. At any time, increase the Skins Lake Spillway release from the current level to 453 m³/s (16,000 cfs) to achieve the flow changes in the Nechako River as quickly as possible.
- 4. During cooling periods when two of three trends in forecasted water temperatures are decreasing and these trends indicate that potentially the water temperature could drop below 19.4°C (67.0°F) within the forecast period (five days), reduce the Skins Lake Spillway release from the current level to 14.2 m³/s (500 cfs).

RESULTS

Predicted and recorded mean daily water temperatures for the Nechako River above the Stuart River confluence, Skins Lake Spillway releases, and changes in Skins Lake Spillway releases over the duration of the Project operational period are summarized in Table 2.

Mean daily water temperatures recorded during the control period in the Nechako River above the Stuart River confluence (Figure 2 and Table 3) exceeded 20.0°C (68.0°F) on a number of occasions (July 29 through July 31 and August 12 through August 14). The respective maximum and minimum mean daily water temperatures recorded during the control period were 20.4°C (68.8°F) on August 13 and 18.4°C (65.1°F) on August 8 and August 9. Mean daily water temperatures in the Nechako River below Cheslatta Falls, near Fort Fraser and above the Stuart River confluence, and in the Nautley River near Fort Fraser are presented in Appendix B.

Skins Lake Spillway releases and their corresponding flows in the Nechako River below Cheslatta Falls and at Vanderhoof are plotted in Figure 3 (source data are provided in Appendix C). Changes in Skins Lake Spillway releases during the STMP were made on the following dates:

- 1. July 11 Increase to 136 m³/s to increase flow in Nechako River below Cheslatta Falls to STMP base flow by July 20.
- July 13 Increase to 226.5 m³/s to increase flow in Nechako River below Cheslatta Falls to STMP base flow by July 20.
- 3. July 16 Increase to 453 m³/s to increase flow in Nechako River below Cheslatta Falls in response to warming trend.
- 4. July 18 Decrease to 14.2 m³/s to decrease flow in Nechako River below

- Cheslatta Falls in response to cooling trend.
- 5. July 20 Increase to 170 m³/s to ensure flow in Nechako River below Cheslatta Falls is maintained at summer base flow.
- 6. July 24 Increase to 453 m³/s to increase flow in Nechako River below Cheslatta Falls in response to warming trend.
- 7. July 27 Decrease to 283 m³/s to limit flow in the Nechako River below Cheslatta Falls to maximum of 283 m³/s.
- 8. August 4 Decrease to 14.2 m³/s to decrease flow in Nechako River below Cheslatta Falls in response to cooling trend.
- 9. August 7 Increase to 170 m³/s to ensure flow in Nechako River below Cheslatta Falls is maintained at summer base flow.
- 10. August 9 Increase to 453 m³/s to increase flow in Nechako River below Cheslatta Falls in response to warming trend.
- 11. August 12 Decrease to 283 m³/s to limit flow in the Nechako River below Cheslatta Falls to maximum of 283 m³/s.
- 12. August 15 Decrease to 14.2 m³/s to decrease flow in Nechako River below Cheslatta Falls in response to cooling trend.
- 13. September 2 increase to 31.78 m³/s to ensure flow in Nechako River below Cheslatta Falls is maintained at fall spawning flow.

During the control period, measured flows in the Nechako River below Cheslatta Falls (based on preliminary WSC data from the WSC data collection platform at Bert Irvine's Lodge) ranged between a maximum of 291 m³/s (10,259 cfs) on August 15 and a minimum of 159 m³/s (5,600 cfs) on July 22. Flows measured in the Nechako River at Vanderhoof ranged between a maximum of 315 m³/s (11,140 cfs) on

August 4 and a minimum of 189 m³/s (6,690 cfs) on July 24.

DISCUSSION

The discussion of the 2014 Summer Water Temperature and Flow Management Project has been divided into three sections. The first section reviews the collection and use of field including recorded data. temperature, flow, and meteorological data (recorded and forecast). The second section discusses the volume of water used during the 2014 Summer Water Temperature and Flow Management Project. The third section provides a brief discussion of the application of the Project release criteria.

Recorded Data

The modelling procedure was initialized using recorded conditions. The quality of the field data used in the modelling process directly affects the accuracy of the computed water temperatures. Therefore, data must be collected accurately and consistently to ensure that random errors are kept to a minimum. Further, consistency in data collection techniques also ensures that, if a bias exists in the data, it remains relatively constant throughout the project.

In 2014, river discharges in the Nechako River below Cheslatta Falls and at Vanderhoof as recorded by the Water Survey of Canada changed as expected in response to Skins Lake Spillway releases (Figure 3). The hourly stage data from the gauging station located on the Nechako River below Cheslatta Falls proved very useful in verifying the daily predictions of the flow routing model and to account for in the local inflow changes the Cheslatta/Murray Lakes system.

As previously stated, water temperatures recorded by data loggers were obtained daily from the Rom Communications website for the Nechako River at Fort Fraser and in the

Nechako River above the Stuart River confluence.

Recorded water temperatures in the Nechako River above the Stuart River confluence did exceed 20°C on fifteen occasions. Five of the exceedances occurred during the water temperature control period (July 29 - 30 and August 12 - 14). However, the increase in water temperature was predicted by the water temperature model and the river discharge in the Nechako River below Cheslatta Falls increased to the maximum allowed under the operating protocol (283 m³/s) prior to the occurrences. The remaining ten (July 10 through July 19) occurred prior to the water temperature control period (July 20 to August 20).

Volume of Water Used

The recorded flows in the Nechako River below Cheslatta Falls for the 2014 Summer Water Temperature and Flow Management Project are shown in Figure 4. Also indicated is the minimum cooling flow of 170 m³/s (6,000 cfs) in the Nechako River below Cheslatta Falls, and the Skins Lake Spillway spring base release of 49.0 m³/s (1,730 cfs) as determined by the NFCP Technical Committee as part of the "Annual Water Allocation" defined in the 1987 Settlement Agreement (Anon. 1987).

The total volume of water released during the 2014 Summer Water Temperature and Flow Management Project operational period was 8,984.4 m³/s-d, (317,284 cfs-d). The volume released for cooling purposes was 7,149.6 m³/s-d (252,488 cfs-d), and is based on an assumed Skins Lake Spillway release of 49.0 m³/s (1,730 cfs) for the period July 10 to August 15, inclusive, with a reduction to 14.2 m³/s (500 cfs) until August 20. The average release during the operational period was 213.9 m³/s (7,554.4 cfs). Volume calculations are presented in Appendix E.

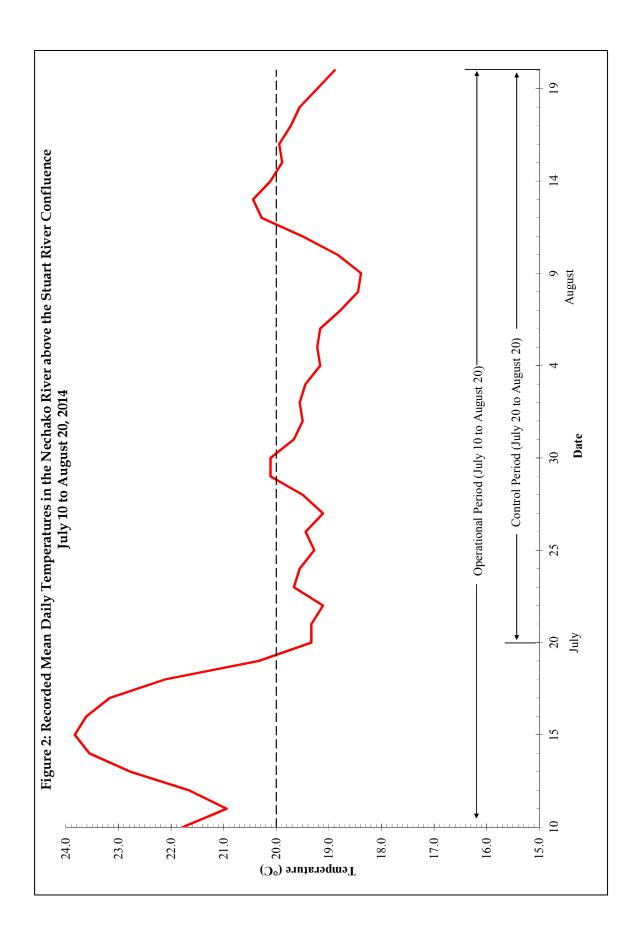
	1								
	31	20.0	19.9	20.0	19.3	19.7	19.6	20.1	283
	30	20.2	19.9	20.1	20.1	19.7	19.8	20.1	283
	29	20.1	19.9	19.8	20.1	20.2	19.9	19.5	283
	28	20.3	19.5	19.2	19.3	19.5	19.5	19.1	283
2014	27	18.4	19.5	19.2	18.5	19.2	19.1	19.4	453 to 283 @ 1600 hrs
ust 20,	26	19.0	18.9	19.1	19.6	19.0	19.1	19.3	453
o Aug	25	18.9	19.2	19.5	19.2	19.8	19.4	19.6	453
ly 10 t	24	17.8	19.0	19.1	19.4	19.6	19.9	19.7	170 to 453 @ 1600 hrs
nce, Ju	23	19.1	18.2	18.8	19.0	19.2	19.4	19.1	170
onflue	22	18.7	19.2	18.7	18.7	19.0	18.9	19.3	170
iver C	21	19.5	18.9	18.9	18.9	19.0	19.0	19.3	170
tuart Riv	20	19.6	19.1	18.8	18.6	19.3	19.2	20.3	14.2 to 170 @ 11600 hrs
the St	19	20.0	20.1	19.6	19.6	19.7	19.9	22.1	14.2
above	18	22.0	21.6	21.7	21.9	21.8	21.6	23.2	453 to 14.2 @ 1600 hrs
River	17	22.5	23.1	23.4	23.6	23.7	23.1	23.6	453
schako	16	22.7	23.2	24.1	24.6	24.5	24.2	23.8	226.5 to 453 @ 1600 hrs
the N	15	23.1	23.3	24.0	24.8	24.8	24.4	23.6	226.5
ıres in	14	21.9	23.2	23.7	24.5	24.5	24.2	22.8	136.0 226.5 226.5 226.5 to to 226.5 453
ıperatı	13		22.2	23.1	23.6	23.7	23.3	21.7	136.0 to 226.5 @ 0800 hrs
er Ten	12			22.4	22.9	22.8	22.7	20.9	136
y Wat	11				22.4	22.0	21.8	21.8	49 to 136 @ 0800 hrs
an Dail	10					22.1	21.8	22.1	49
Predicted and Recorded Mean Daily Water Temperatures in the Nechako River above the Stuart River Confluence, July 10 to August 20, 2014 [IULY]	Date	5th Day's Predicted Water Temperature at Date + 4 Days	4th Day's Predicted Water Temperature at Date + 3 Days	3rd Day's Predicted Water Temperature at Date + 2 Days	2nd Day's Predicted Water Temperature at Date +1 Day	Current Day's Predicted Water Temperature at Date	Previous Day's Calculated Water Temperature at Date - 1 Day	Previous Day's Recorded Water Temperature at Date - 1 Day	Current Day's Skins Lake Spillway Release at Date (m³/s)

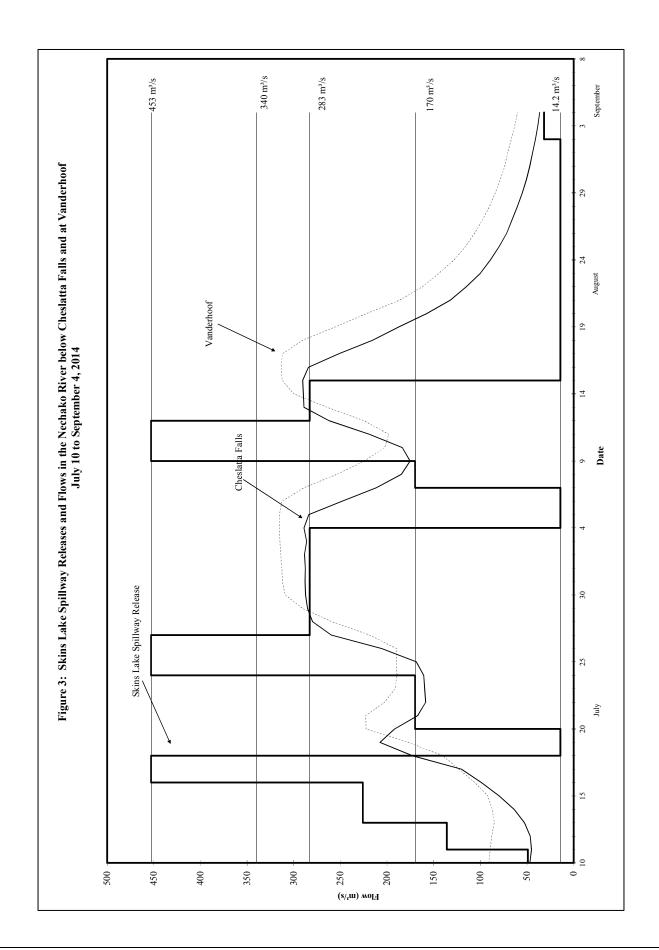
Table 2 (continued) AUGUST	7 8 9 10 11 12 13 14 15 16 17 18 19 20	19.5 19.6 19.2 19.0 18.7 19.8 19.4 19.9 20.7 20.5 19.8 20.2 19.9 18.7 19.2	20.0 19.8 19.2 18.3 19.0 18.3 19.5 20.4 20.6 20.5 20.3 20.4 19.5 19.1 19.0	20.5 19.5 18.8 18.5 17.6 18.5 19.7 20.7 20.6 20.5 20.6 20.1 19.6 19.3 18.7	19.5 19.3 18.4 17.8 18.0 18.9 20.6 20.5 20.7 20.5 20.2 19.8 19.9 18.8 19.0	19.3 18.7 18.2 18.1 18.5 19.8 20.4 20.7 20.3 20.1 19.7 20.0 19.4 19.1 18.8	19.0 18.5 18.1 18.1 18.7 19.7 20.4 20.3 20.2 19.8 19.6 19.8 19.3 18.9	19.2 19.2 18.8 18.4 18.4 18.8 19.5 20.3 20.4 20.1 19.9 19.9 19.7 19.6	14.2 14.2 170 170 453 453 283 283 283 14.2 14.2 14.2 14.2 14.2 14.2 14.2 14.2
	5	.6 20.8	.7 20.0	.3 20.5	.4 20.5	.9 19.1	.2 18.9	.4 19.2	33 14.2 5.2 900 83
	3 4	20.5 20.6	20.5 20.7	20.5 20.3	20.2 20.4	19.8 19.9	19.5 19.2	19.6 19.4	283 283 to to 14.2 @ 1600 hrs
	2	20.0 2	20.1 2	20.3 2	20.1 2	19.8 1	19.4	19.5	283
	1	20.2	20.1	19.7	19.9	19.8	19.6	19.7	283
	Date	5th Day's Predicted Water Temperature at Date + 4 Days	4th Day's Predicted Water Temperature at Date + 3 Days	3rd Day's Predicted Water Temperature at Date + 2 Days	2nd Day's Predicted Water Temperature at Date + 1 Day	Current Day's Predicted Water Temperature at Date	Previous Day's Calculated Water Temperature at Date - 1 Day	Previous Day's Recorded Water Temperature at Date - 1 Day	Current Day's Skins Lake Spillway Release at Date (m³/s)

Table 3

Recorded Mean Daily Water Temperatures in the Nechako River above the Stuart River Confluence, July 10 to August 20, 2014

Date	Water Temperature (°C)	Date	Water Temperature (°C)
10-Jul	21.8	01-Aug	19.5
10-3u1 11-Jul	20.9	02-Aug	19.6
11-Jul	21.7	03-Aug	19.4
12-3u1 13-Jul	22.8	04-Aug	19.4
13-3u1 14-Jul	23.6	05-Aug	19.2
14-3u1 15-Jul	23.8	06-Aug	19.2
15-Jul	23.6	07-Aug	18.8
10-3u1 17-Jul	23.2	08-Aug	18.4
17-Jul 18-Jul	22.1	09-Aug	18.4
19-Jul	20.3	10-Aug	18.8
20-Jul	19.3	11-Aug	19.5
20-Jul	19.3	12-Aug	20.3
21-Jul 22-Jul	19.1	13-Aug	20.4
22-Jul	19.7	14-Aug	20.4
23-Jul 24-Jul	19.6	15-Aug	19.9
24-Jul 25-Jul	19.3	16-Aug	19.9
25-Jul	19.4	17-Aug	19.7
20-Jul	19.4	17-Aug 18-Aug	19.7
27-Jul 28-Jul	19.5	•	19.0
28-Jul 29-Jul	20.1	19-Aug	18.9
		20-Aug	18.9
30-Jul	20.1		
31-Jul	19.7		





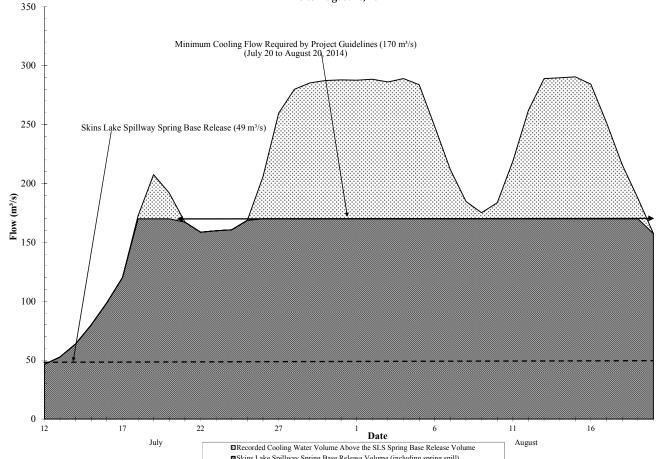


Figure 4: Flows in the Nechako River below Cheslatta Falls Resulting from Skins Lake Spillway(SLS) Releases, July 10 to August 20, 2014

Application of the Summer Water Temperature and Flow Management Project Release Criteria

The Summer Water Temperature and Flow Management Project is very sensitive to the accuracy of meteorological forecasting. If an increase or decrease in temperature occurs over a prolonged period of time (three or four days), inaccurate meteorological forecasts may predict the reversal of the temperature change prematurely.

In these instances, it may be required to exercise judgment when applying the Summer Water Temperature and Flow Management Project release criteria used with the three water temperature trends. This judgment is based on experience gained in the operation of the Summer Water Temperature and Flow Management Project since 1984 and may result in exceptions to the decision based on strict adherence to the release criteria. Exceptions were made to the application of the release criteria in 2014.

On August 7, 2014 two of three water temperature trends indicated the water temperature could exceed 19.4°C (67°F) in the Nechako River above Stuart River within the forecast period (5 days). The remaining trend, however, showed that the water temperature could be less than 19.4°C (67°F) within the forecast period. Following these release criteria under these conditions, the release from Skins Lake Spillway could have been increased from the scheduled release of 170 m³/s (6,000 cfs) to 453 m³/s (16,000 cfs). However, as there was no

strong warming trend indicated, rather than increase the discharge it was conservatively decided to maintain the spillway release at 170 m³/s (6,000 cfs). A warming trend was established on August 9 and releases were increased in accordance with the Protocol.

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APPENDIX A Numerical Example of Water Temperature Trend Calculation

Appendix A

Numerical Example of Water Temperature Trend Calculation

From data for July 16 date of operation (Table A1).

Observed Trend

The observed trend is up by 0.6° C from 17.9° C (J14) to 18.5° C (J15). Take the previous day's recorded temperature 18.9° C (J15) and extrapolate the trend for five days at $+0.6^{\circ}$ C. The observed trend shows that the water temperature could potentially reach 17.9° C + $5(+0.6^{\circ}$ C) = 20.9° C.

2. Predicted Trend

The predicted trend is the difference between the previous day's calculated water temperature (J15) and the fifth day predicted water temperature (J20). The predicted trend is down from 18.7°C to 18.5°C with the potential to reach 18.5°C.

3. Forecast Trend

The forecast trend for the current day of July 16 is based on the first, second and third day forecasts.

July 16	19.2 to 17.6	=	down	1.6°C
July 17	18.8 to 17.8	=	down	1.0°C
July 18	18.9 to 18.0	=	down	0.9°C

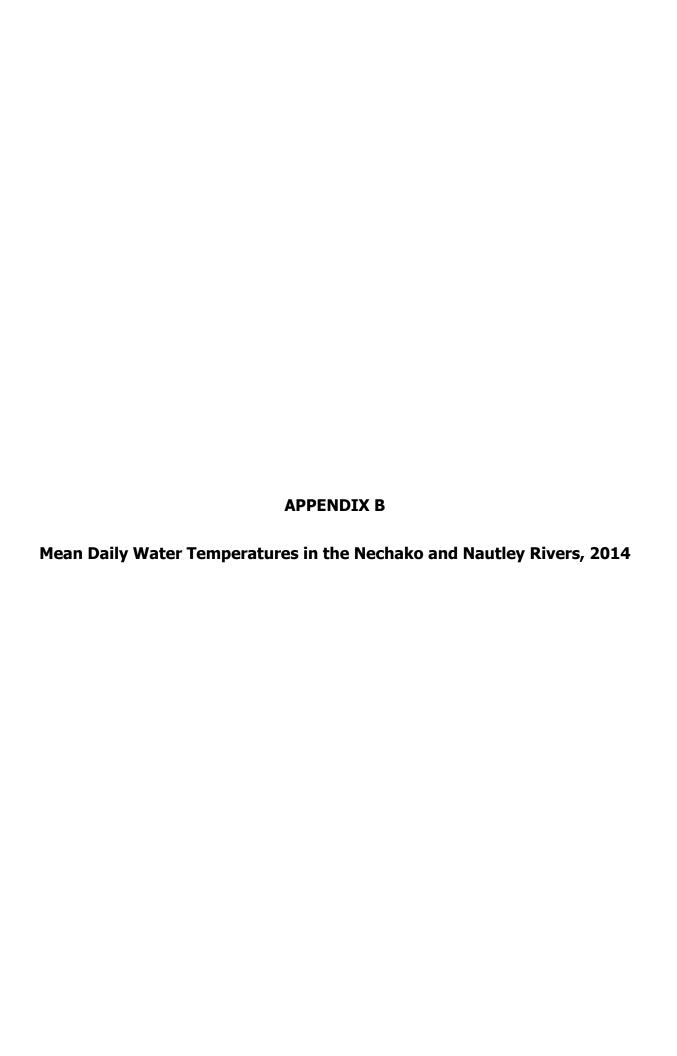
Mean of 3 differences = down 1.2°C

This mean of -1.2°C is added to the fifth day predicted water temperature to give 18.5°C + (-1.2°C) = 17.3°C.

Table A1

Predicted and Recorded Mean Daily Water Temperatures in the Nechako River above the Stuart River Confluence, 2010

							JULY					
Date	10	11	12	13	14	15	16	17	18	19	20	
5th Day's Predicted												
Water Temperature					17.6	18.9	20.2	19.4	20.2	19.3	18.5	
at Date + 4 Days												
4th Day's Predicted												
Water Temperature				18.3	18.0	19.6	19.0	19.6	18.9	18.4		
at Date + 3 Days												
3rd Day's Predicted												
Water Temperature			19.6	18.3	18.9	18.3	19.2	18.8	18.0			
at Date + 2 Days												
2nd Day's Predicted												
Water Temperature		20.5	19.9	19.0	17.6	18.7	19.2	17.8				
at Date + 1 Day												
Current Day's Predicted												
Water Temperature	20.8	21.3	20.1	17.3	18.1	19.3	17.6					
at Date												
Previous Day's Calculated												
Water Temperature	20.9	21.5	20.0	17.2	18.2	18.7						
at Date - 1 Day												
Previous Day's Recorded												
Water Temperature	21.1	21.6	21.6	19.7	17.9	18.5						
at Date - 1 Day												
Current Day's												
Skins Lake Spillway Release	49.0	49.0	136.0		226.5	226.5	226.5	226.5	226.5		453.0	
at Date		to		to						to		
(m ³ /s)		136.0		226.5						453.0		
		@ 0800		@ 0800						@ 0800		
		hrs		hrs						hrs		
		1113		1113						1113		



Appendix B

Mean Daily Water Temperatures in the Nechako and Nautley Rivers, 2014

	Ż	Nechako River	River	Nautley		Z	Nechako River	River	Nautley
	Cheslatta	Fort	above the	Fort		Cheslatta	Fort	above	Fort
	Falls	Fraser	Stuart River	Fraser		Falls	Fraser	Stuart River	Fraser
Date	(°C)	(°C)	(°C)	(°C)	Date	(°C)	(°C)	(°C)	(°C)
10-Jul	18.2	19.6	21.8	18.2	01-Aug	17.1	19.5	19.5	17.3
11-Jul	18.1	20.7	20.9	19.3	02-Aug	17.3	18.4	19.6	18.4
12-Jul	18.6	21.4	21.7	20.7	03-Aug	17.3	18.4	19.4	18.6
13-Jul	19.8	21.7	22.8	22.1	04-Aug	17.3	18.3	19.2	18.3
14-Jul	19.4	22.2	23.6	21.5	05-Aug	17.4	18.5	19.2	19.6
15-Jul	19.5	22.0	23.8	22.1	06-Aug	17.6	18.2	19.2	16.3
16-Jul	19.8	21.6	23.6	21.3	07-Aug	17.6	18.0	18.8	13.5
17-Jul	19.3	21.5	23.2	19.7	08-Aug	17.7	18.2	18.4	14.9
18-Jul	18.6	19.9	22.1	16.5	99-Aug	17.6	18.0	18.4	16.1
19-Jul	18.3	18.8	20.3	16.6	10-Aug	17.7	18.7	18.8	19.1
20-Jul	18.2	18.6	19.3	15.3	11-Aug	17.7	19.1	19.5	17.6
21-Jul	18.0	18.8	19.3	17.1	12-Aug	17.8	19.2	20.3	19.1
22-Jul	18.2	18.8	19.1	16.8	13-Aug	17.8	19.1	20.4	19.3
23-Jul	18.3	19.1	19.7	17.5	14-Aug	17.8	19.0	20.1	18.1
24-Jul	18.2	19.4	19.6	15.9	15-Aug	17.8	19.7	19.9	18.4
25-Jul	17.7	18.7	19.3	15.3	16-Aug	18.1	19.1	19.9	20.7
26-Jul	17.6	18.2	19.4	15.4	17-Aug	18.2	19.2	19.7	16.8
27-Jul	17.4	18.5	19.1	16.8	18-Aug	18.2	19.0	19.6	17.1
28-Jul	17.2	18.8	19.5	18.3	19-Aug	18.1	18.6	19.2	14.7
29-Jul	17.1	18.4	20.1	18.9	20-Aug	18.1	18.4	18.9	13.0
30-Jul	17.1	18.4	20.1	19.1					
31-Jul	17.1	18.3	19.7	18.2					

APPENDIX C

Mean Daily Skins Lake Spillway Releases and Flows in the Nechako and Nautley Rivers, 2014

 $\label{eq:Appendix} Appendix\ C$ Mean Daily Skins Lake Spillway Releases and Flows in the Nechako and Nautley Rivers, 2014

	Skins Lake		ko River	Nautley River
	Spillway	Cheslatta	At	Fort
	Release	Falls	Vanderhoof	Fraser
Date	(m^3/s)	(m^3/s)	(m^3/s)	(m^3/s)
10-Jul	49	46.9	90.9	39.4
11-Jul	49 to 136	45.2	89.4	37.4
11-jui	@ 0800 hrs	45.2	07.4	37.4
12-Jul	136	46.6	88	36.3
13-Jul	136 to 226	52.7	85.1	35.9
·	@ 0800 hrs			
14-Jul	226.0	63.8	87.2	34.6
15-Jul	226.0	79.9	92.0	34.3
16-Jul	226 to 453	98.8	105.9	33.0
	@ 1600 hrs			
17-Jul	453.0	120.2	123.1	32.2
18-Jul	453 to 14.2	172.6	140.1	31.1
	@ 1600 hrs			
19-Jul	14.2	207.6	177.2	30.7
20-Jul	14.2 to 170	192.0	222.5	29.9
	@ 1600 hrs			
21-Jul	170	167.2	222.9	29.3
22-Jul	170	158.6	202.8	29.3
23-Jul	170	159.8	191.5	29.1
24-Jul	170 to 453	160.7	189.4	29.9
	@ 1600 hrs			
25-Jul	453	168.7	190.0	27.7
26-Jul	453	205.8	190.0	26.5
27-Jul	453 to 283	259.7	218.6	26.0
	@ 1600 hrs			
28-Jul	283	279.9	258.0	25.6
29-Jul	283	285.3	290.8	25.2
30-Jul	283	287.4	309.1	24.5
31-Jul	283	287.9	312.2	24.0
01-Aug	283	287.6	312.9	23.4
02-Aug	283	288.5	314.1	22.6
03-Aug	283	286.2	314.9	22.9
04-Aug	283 to 14.2	289.1	315.4	21.7
	@ 1600 hrs			
05-Aug	14.2	283.9	315.3	21.8
06-Aug	14.2	248.1	312.7	21.3
07-Aug	14.2 to 170	211.8	289.2	20.5
	@ 1600 hrs			
08-Aug	170	187.7	254.0	19.8

Appendix C (continued)

Mean Daily Skins Lake Spillway Releases and Flows in the Nechako and Nautley Rivers, 2014

	Skins Lake	Nechal	co River	Nautley River
	Spillway	Cheslatta	At	Fort
	Release	Falls	Vanderhoof	Fraser
Date	(m^3/s)	(m^3/s)	(m^3/s)	(m^3/s)
09-Aug	170 to 453	175.3	224.5	19.6
G	@ 1600 hrs			
10-Aug	453	183.7	202.5	18.8
11-Aug	453.0	219.1	198.2	18.3
12-Aug	453 to 283	262.2	224.8	17.9
	@ 1600 hrs			
13-Aug	283	289.1	264.3	17.6
14-Aug	283	289.7	299.9	16.9
15-Aug	283 to 14.2	290.5	312.5	16.5
	@ 1600 hrs			
16-Aug	14.2	284.2	313.5	17.2
17-Aug	14.2	251.7	312	16.3
18-Aug	14.2	215.9	290.7	16.1
19-Aug	14.2	187.4	255.6	15.9
20-Aug	14.2	157.6	222	15.3

APPENDIX D Recorded and Forecast Meteorological Data

Appendix D Recorded and Forecast Meteorological Data 2014

20.5	611.8	0.0	8.8	3.9	94.0	58.6	09 07 14
20.2	610.0	0.3	11.0	8.0	93.2	56.0	10 07 14
22.2	640.0	0.1	12.0	17.0	92.5	63.0	
22.0	690.0	0.1	11.0	12.0	92.8	93.0	
22.0	600.0	0.1	4.0	8.0	93.2	62.0	
22.0	680.0	0.1	9.0	7.0	93.7	63.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	T CANADA F	ORECAST ISSU	JED JUL 10/14				
17.5	668.4	0.1	6.3	4.0	91.7	50.5	10 07 14
19.6	822.2	0.0	7.4	3.9	91.8	39.3	11 07 14
22.7	717.0	0.0	8.8	4.1	92.0	30.6	
23.9	669.2	0.2	6.9	4.5	92.1	15.0	
26.6	688.3	0.3	9.3	4.9	91.9	13.4	
24.6	707.5	0.0	4.2	9.0	91.8	14.3	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN		ORECAST ÍSSU	JED JUL 11/14	` ,	, ,	` ,	
19.6	643.6	0.1	10.7	4.4	91.8	61.9	11 07 14
20.6	646.4	0.0	11.9	3.6	92.0	56.8	12 07 14
24.4	806.9	0.0	6.9	4.8	92.1	12.3	
25.8	708.4	0.1	7.3	6.2	92.0	7.8	
24.8	712.2	0.0	3.7	8.1	91.8	5.5	
22.9	707.5	0.1	6.1	9.7	91.6	19.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	` /	` /		()	,	()	
20.6	646.4	0.0	11.9	3.6	92.0	56.8	12 07 14
24.4	806.9	0.0	6.9	4.8	92.1	12.3	13 07 14
25.8	708.4	0.1	7.3	6.2	92.0	7.8	
24.8	712.2	0.0	3.7	8.1	91.8	5.5	
22.9	707.5	0.1	6.1	9.7	91.6	19.0	
22.3	621.4	0.3	6.1	7.0	91.5	19.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'			* *	()	~()	(/3)	
La , viitoi milla		0111011000	JED 30E 13/17				

21.7	570.6	0.0	11.7	10.5	92.1	50.2	13 07 14
25.3	803.1	0.0	9.0	5.1	92.0	50.2	14 07 14
25.4	712.2	0.0	5.8	7.7	91.8	52.0	
23.1	712.2	0.0	5.2	9.8	91.6	51.0	
20.6	631.0	0.3	3.1	8.7	91.2	49.0	
19.5	535.4	0.4	4.6	9.0	91.0	52.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	, ,	, ,		,	,	· /	
21.1	556.9	0.0	12.3	4.2	92.0	59.7	14 07 14
24.3	808.8	0.0	7.7	8.0	91.8	52.2	15 07 14
23.2	706.5	0.0	6.1	7.7	91.6	52.2	130/14
20.6	683.6	0.3	5.2	11.5	91.1	51.0	
15.3	248.6	0.7	4.6	7.2	90.9	46.2	
13.4	420.7	0.7	11.4	4.8	90.5	90.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	CANADA F	ORECAST ISSU	ED JUL 15/14				
22.6	639.5	0.0	12.1	18.3	91.8	47.7	15 07 14
23.0	789.7	0.1	4.4	7.4	91.6	49.0	16 07 14
20.9	582.2	0.3	4.8	10.0	91.2	51.0	
16.4	492.4	0.7	3.0	10.8	90.8	50.6	
14.5	392.0	0.4	5.0	7.0	90.6	52.7	
15.5	621.4	0.2	8.2	4.0	90.6	63.3	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	` '	, ,		,	,	· /	
211111111111111111111111111111111111111		0142011011000	22 (02 10, 1 .				
21.9	609.0	0.0	10.8	15.3	91.6	44.2	16 07 14
20.8	770.6	0.4	4.2	11.2	91.2	49.0	17 07 14
14.1	195.0	0.8	6.3	10.2	91.1	60.8	
13.8	382.4	0.7	8.9	9.0	90.8	75.5	
14.6	621.4	0.2	4.9	10.6	90.9	51.7	
14.1	372.9	0.4	6.7	4.6	91.0	63.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	CANADA F						
21.5	621.6	0.1	8.6	29.3	91.2	35.6	17 07 14
14.7	254.3	0.8	7.8	9.3	91.1	65.3	18 07 14
13.8	405.4	0.7	9.5	10.8	90.7	78.9	
15.1	516.3	0.7	6.2	7.3	90.9	55.5	
13.4	325.1	0.5	6.6	5.4	91.0	66.2	
12.3	516.3	0.4	8.2	4.9	91.5	79.5	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	, ,			` ′	. /	. ,	
	_						

16.2	184.0	0.8	9.7	19.8	91.1	67.5	18 07 14
14.1	370.9	0.8	9.3	10.4	90.7	75.6	19 07 14
16.2	656.8	0.3	5.7	7.9	90.9	47.6	
15.6	540.2	0.3	5.7	5.9	91.1	50.2	
14.3	439.8	0.7	11.6	4.9	91.6	86.4	
14.2	458.9	0.5	11.7	4.3	91.7	87.6	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'				, ,	` ′	` /	
13.8	304.3	0.7	10.2	12.6	90.7	81.6	19 07 14
15.7	684.5	0.7	5.2	7.4	91.0	47.3	20 07 14
							2007 14
14.2	419.7	0.5	6.4	5.9	91.2	60.7	
13.3	454.1	0.8	11.2	5.1	91.6	85.6	
12.3	229.5	0.8	10.9	4.7	91.7	92.6	
14.3	430.2	0.7	8.5	11.8	91.3	70.9	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	T CANADA F	ORECAST ISSU	JED JUL 20/14				
14.7	462.7	0.6	8.0	4.6	91.0	81.6	20 07 14
13.5	525.8	0.5	6.8	5.0	91.2	66.6	21 07 14
14.0	439.8	0.7	11.0	4.8	91.6	85.0	
14.5	525.8	0.4	10.4	4.5	91.6	79.5	
15.3	659.7	0.1	6.2	10.5	91.3	54.5	
14.3	439.8	0.5	4.0	9.7	91.5	48.5	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'				SI D(IXII)	Si iditi ii)	141(70)	DD WIWI II
LIVINOIVILIV	i Chividhi i	ORLEATOT ISSU)LD JOL 21/14				
14.2	368.9	0.7	8.6	8.9	91.2	72.1	21 07 14
14.2	510.5	0.7	10.5	4.4	91.6	81.5	22 07 14
14.4	431.2	0.7	11.2	4.5	91.7	84.1	
15.9	616.6	0.4	7.9	9.9	91.1	60.1	
15.4	583.2	0.2	4.4	7.9	91.5	45.3	
15.0	392.0	0.6	9.1	3.5	91.7	70.4	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	T CANADA F	ORECAST ISSU	JED JUL 22/14				
14.0	421.8	0.4	9.9	10.8	91.6	79.7	22 07 14
15.1	564.1	0.6	10.5	4.3	91.7	76.6	23 07 14
15.9	683.6	0.0	7.3	8.9	91.2	56.7	
15.2	540.2	0.2	4.5	9.0	91.6	46.4	
14.1	382.4	0.4	6.8	3.5	92.0	63.8	
16.1	506.7	0.5	9.1	2.7	92.2	65.2	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'				()	()	-(, -)	

15.2	526.6	0.6	10.3	8.9	91.7	75.3	23 07 14
16.2	420.7	0.9	5.7	10.6	91.1	47.7	24 07 14
15.3	645.3	0.3	4.4	11.7	91.6	45.7	
15.2	549.7	0.3	6.6	5.4	91.9	57.2	
16.3	650.1	0.3	10.1	3.5	92.3	69.0	
19.2	611.9	0.2	11.3	3.7	92.1	60.5	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	Γ CANADA F	ORECAST ISSU	JED JUL 24/14				
17.2	553.0	0.4	8.4	8.3	91.1	56.1	24 07 14
15.1	705.5	0.2	4.7	10.2	91.6	48.1	25 07 14
14.9	546.9	0.2	6.4	4.7	91.9	57.8	
16.3	554.5	0.2	9.1	3.8	92.2	64.2	
18.2	611.9	0.2	11.4	3.6	92.0	65.9	
18.4	631.0	0.1	12.4	3.2	91.8	70.1	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'		` /		51 5 (1411)	SI I(III II)	141(70)	<i>DD</i> 141141 1 1
LATVIROTTINLAT	1 6/11//11//12/11		JED 30E 23/11				
15.1	458.6	0.3	6.9	18.5	91.6	59.1	25 07 14
14.6	499.0	0.5	6.8	3.6	91.9	60.8	26 07 14
17.0	605.2	0.3	9.5	4.4	92.2	62.5	20 07 14
18.8	635.8	0.3	10.5	3.5	92.2	58.6	
18.9	602.3	0.1	12.2	4.7	91.8	66.3	
18.6	631.0	0.1	11.0	4.8	91.9	62.1	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	I CANADA F	ORECAST ISSU	JED JUL 26/14				
13.1	383.5	0.3	7.7	5.7	91.9	72.8	26 07 14
16.7	667.3	0.2	8.0	4.4	92.1	56.8	27 07 14
18.7	609.0	0.2	10.2	3.3	92.0	57.5	
18.8	597.5	0.2	11.7	4.2	91.9	64.3	
17.9	573.6	0.1	12.0	4.6	92.0	70.5	
19.1	611.9	0.1	11.7	4.5	92.0	62.7	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	Γ CANADA F	ORECAST ISSU	JED JUL 27/14				
15.3	539.0	0.3	10.1	3.6	92.1	74.0	27 07 14
19.0	697.9	0.2	10.5	4.0	92.0	57.6	28 07 14
18.5	597.5	0.1	11.8	3.9	91.9	66.5	
17.7	540.2	0.2	11.4	5.1	92.0	68.4	
18.9	650.1	0.0	11.2	4.9	92.1	61.1	
20.3	631.0	0.0	12.4	4.7	92.2	60.3	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'				()	, ,	()	_

17.5	572.5	0.1	11.2	4.5	92.0	68.5	28 07 14
18.5	646.3	0.2	10.9	4.8	91.9	62.0	29 07 14
18.0	610.9	0.2	9.6	5.7	92.1	58.1	
19.3	645.3	0.0	9.7	4.8	92.1	52.1	
20.2	640.5	0.0	10.3	4.8	92.1	50.5	
19.7	363.3	0.6	11.4	5.1	91.9	58.7	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT				SI D(IXII)	SI IQIXI II)	141(70)	DD MINI II
EN VIKONVIEN	I CANADA I	OKECASI ISSU	JED JUL 29/14				
18.9	410.0	0.1	10.8	9.5	91.9	59.3	29 07 14
17.8	550.7	0.4	9.4	5.0	92.0	57.7	30 07 14
19.3	639.6	0.1	8.3	5.2	92.1	45.2	
19.9	650.1	0.0	8.8	4.5	92.1	44.3	
21.8	635.8	0.1	10.5	4.3	91.8	43.4	
23.1	631.0	0.2	10.2	5.4	91.7	35.6	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	` ′			SI D(KII)	SI K(KI A)	K(1(70)	DD WIWI 11
EN VIKONIVIEN	I CANADA F	OKECASI ISSU	JED JUL 30/14				
18.6	446.1	0.1	11.0	7.7	92.0	62.4	30 07 14
18.2	720.8	0.0	6.7	4.9	92.2	42.2	31 07 14
19.8	646.3	0.0	8.5	4.6	92.1	43.1	
21.4	635.8	0.0	9.2	4.5	91.7	39.0	
22.2	645.3	0.1	8.0	5.4	91.7	28.8	
21.9	592.7	0.1	10.6	4.5	91.8	43.6	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT				SI D(IXII)	SI K(KI II)	K(1(70)	DD WIWI II
EN VIKONIVIEN	I CANADA F	OKECASI ISSU	JED JUL 31/14				
17.6	584.3	0.1	8.5	12.2	92.2	54.3	31 07 14
19.2	736.1	0.0	7.5	4.5	92.1	41.7	01 08 14
21.3	616.6	0.1	10.4	4.2	91.8	45.2	
21.7	544.9	0.3	12.0	4.7	91.8	51.6	
22.0	635.8	0.1	11.3	4.8	91.7	46.4	
21.8	621.4	0.2	7.1	7.0	91.6	26.1	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'				, ,	511(1211)	141(70)	22
LIVIROIVILIV	I CANADA I	OKLCAST ISSC	JLD AUGUI/ I-	•			
					0.4		
16.6	532.1	0.0	9.4	2.3	92.1	64.0	01 08 14
21.1	697.9	0.1	10.0	4.0	91.8	44.5	02 08 14
22.3	640.5	0.1	8.5	5.2	91.8	30.7	
21.7	578.4	0.1	9.2	5.6	91.7	37.9	
20.5	549.7	0.4	7.3	6.3	91.7	34.1	
18.9	583.2	0.2	3.5	6.8	91.7	22.9	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'				, ,	, ,		

18.0	454.5	0.0	11.7	3.8	91.8	68.4	02 08 14
21.4	722.8	0.1	9.6	5.1	91.8	41.1	03 08 14
21.3	615.7	0.0	11.1	4.4	91.7	48.5	
19.8	576.3	0.3	9.2	6.1	91.6	47.3	
18.7	592.7	0.1	8.7	7.3	91.7	49.8	
16.5	611.9	0.1	4.2	6.7	91.6	38.5	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'				, ,	SI I(IXI II)	101(70)	DD WIWI II
ENVIRONVIEN	I CANADA I	OKECASI ISSU	JED AUGUS/ I	4			
19.1	433.8	0.1	12.7	3.8	91.8	68.0	03 08 14
21.2	692.2	0.1	11.2	3.1	91.7	50.2	04 08 14
19.3	565.0	0.4	12.2	5.6	91.6	64.5	
17.0	635.8	0.0	5.6	9.4	91.8	42.9	
16.5	621.4	0.0	4.6	5.9	91.7	40.3	
15.9	344.2	0.6	7.0	4.7	91.5	55.9	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	` ′			` /	211(1111)	141(,0)	22 11
LATTICOTTIVILAT	i Chinibiti	014267151 1550	DED MOGOWI				
16.9	240.5	0.1	12.4	2.1	01.7	77.6	04.09.14
	349.5	0.1	12.4	2.1	91.7	77.6	04 08 14
18.5	564.1	0.4	13.5	4.6	91.5	75.3	05 08 14
16.9	640.5	0.0	5.6	10.4	91.7	43.6	
15.4	631.0	0.0	3.9	6.6	91.7	42.7	
14.7	592.7	0.4	6.1	7.4	91.6	57.0	
14.7	564.1	0.1	5.2	5.5	91.9	52.2	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	T CANADA F	ORECAST ISSU	JED AUG 09/1	4			
18.6	340.1	0.1	12.5	10.8	91.5	69.8	05 08 14
17.2	711.3	0.0	5.5	10.2	91.7	41.4	06 08 14
15.0	531.6	0.2	4.2	8.6	91.7	45.9	00 00 11
13.8	449.3	0.2	4.3	6.9	91.8	52.4	
14.8	516.3	0.2	7.0	4.0	92.0	61.0	
16.3	602.3	0.0	7.4	4.4	92.2	55.4	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	T CANADA F	ORECAST ISSU	JED AUG 06/1	4			
16.8	557.0	0.1	8.2	19.5	91.7	56.8	06 08 14
14.6	594.7	0.2	4.2	7.4	91.7	48.0	07 08 14
14.2	571.7	0.2	4.3	7.7	91.8	50.7	
15.8	549.7	0.4	4.9	4.9	92.0	45.5	
17.7	588.0	0.3	7.9	3.9	92.2	51.2	
20.4	602.3	0.0	9.2	4.6	91.7	44.2	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN				, ,	SI K(KI A)	MI(/0)	DD WIWI II
LINVINOINIVIEN	I CANADA F	OKECASI ISSU	DD AUUU//1	7			

13.5 431.5 0.2 5.6 13.8 91.7 60.6 07	08 14
	· ·
14.3 604.2 0.3 5.5 6.6 91.7 56.0 08	08 14
14.0 337.5 0.5 5.4 5.1 92.0 56.9	
16.6 387.2 0.7 7.7 4.6 92.2 55.3	
19.3 583.2 0.1 10.5 4.1 91.9 55.8	
19.0 535.4 0.1 8.5 7.7 91.4 47.7	
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM	1 VV
ENVIRONMENT CANADA FORECAST ISSUED AUG 09/14	
ENVIRONMENT CANADA TORLEAST ISSUED AUGU//14	
142 4012 02 52 125 015 (40 00	00.14
	08 14
	08 14
16.6 414.0 0.4 8.6 4.5 92.2 60.0	
19.2 597.5 0.0 10.6 4.3 91.9 57.0	
20.6 458.9 0.2 11.1 5.0 91.1 52.4	
18.9 516.3 0.3 9.0 8.3 91.4 50.3	
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD M1	и үү
ENVIRONMENT CANADA FORECAST ISSUED AUG 09/14	
14.6 329.1 0.5 7.7 7.4 91.0 65.3 09	08 14
	08 14
19.3 531.6 0.2 10.9 4.4 91.9 58.0	06 14
21.1 540.2 0.1 12.2 4.4 91.4 55.8	
22.0 578.4 0.1 9.7 6.2 91.3 38.8	
21.1 592.7 0.0 10.2 4.8 91.5 45.6	
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM	ΛΥΥ
ENVIRONMENT CANADA FORECAST ISSUED AUG 10/14	
18.2 469.2 0.2 10.6 9.3 91.2 62.0 10	08 14
20.0 652.0 0.1 9.3 4.1 91.9 46.5 11	08 14
22.6 595.6 0.0 9.6 4.5 91.9 35.1	
22.8 583.2 0.0 7.6 6.3 91.4 24.5	
22.1 578.4 0.0 9.3 4.7 91.3 35.7	
22.9 544.9 0.1 11.8 4.1 91.5 44.3	
	1 3/3/
	/1 1 1
ENVIRONMENT CANADA FORECAST ISSUED AUG 11/14	
	08 14
	08 14
23.6 593.7 0.1 9.3 5.1 91.3 28.6	
23.0 573.6 0.0 7.8 4.8 91.5 24.2	
23.3 473.2 0.3 10.9 4.4 91.3 38.2	
20.2 181.6 0.8 12.3 5.9 91.4 60.7	
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD M1	Л YY
ENVIRONMENT CANADA FORECAST ISSUED AUG 12/14	

20.4 472.9 0.0 12.8 7.8 91.4 62.1 12.0814 23.2 653.9 0.1 8.7 5.8 91.3 45.1 13.0814 22.5 522.0 0.2 8.1 5.2 91.6 55.0 22.7 478.0 0.3 11.3 4.5 91.4 42.9 121.9 544.9 0.4 9.8 8.4 91.4 39.4 19.9 535.4 0.1 6.1 8.2 91.8 31.3 ATEMP(C) RADILY) CCITHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUGI 31/14 19.8 377.5 0.1 12.3 10.2 91.3 62.4 13.0814 21.6 652.0 0.0 10.3 4.8 91.6 43.3 14.0814 21.7 471.3 0.2 12.6 4.4 91.4 54.5 21.2 564.1 0.3 10.6 9.1 91.5 47.0 18.6 392.0 0.4 8.8 7.5 91.5 51.3 ATEMP(C) RADILY) CCITHIS) DPT(C) SPD(KH) SPR(KPA) RI((%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUGI 41/4 21.7 471.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2								
22.5 522.0 0.2 8.1 5.2 91.6 55.0 22.7 478.0 0.3 11.3 4.5 91.4 42.9 21.9 544.9 0.4 9.8 8.4 91.4 39.4 39.9 535.4 0.1 6.1 8.2 91.8 31.3 ATEMP(C) RADILY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) R16% DDMM YY	20.4	472.9	0.0	12.8	7.8	91.4	62.1	12 08 14
22.7	23.2	653.9	0.1	8.7	5.8	91.3	45.1	13 08 14
19.8 377.5 0.1 0.3 0.2 0.4 0.5 0	22.5	522.0	0.2	8.1	5.2	91.6	55.0	
21.9								
19.9 S35.4 O.1 O.1 SPD(KH) SPR(KPA) SPR(K								
ATEMPIC RADILY CCITTIS DPTIC SPD(KI) SPR(KPA) RI(% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 13/14 19.8 377.5 0.1 12.3 10.2 91.3 62.4 13 08 14 21.6 652.0 0.0 10.3 4.8 91.6 43.3 14 08 14 21.7 471.3 0.2 12.6 4.4 91.4 54.5 212 564.1 0.3 10.6 9.1 91.5 47.0 14 54.5 18.9 578.4 0.1 7.0 62 91.7 40.6 18.6 392.0 0.4 8.8 7.5 91.5 51.3 ATEMPIC RADILY CCITTIS DPTIC SPD(KH) SPR(KPA) RI(% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/14 19.4 498.9 0.0 12.3 2.8 91.6 64.4 14 08 14 21.2 472.3 0.3 12.2 5.0 91.4 55.0 15 08 14 21.3 560.8 0.2 9.8 8.5 91.6 42.7 18.9 525.8 0.1 7.5 7.6 91.8 42.8 19.5 258.1 0.5 10.1 11.4 91.5 53.4 14 0.8 14 18.5 576.6 10.0 4.0 7.2 91.3 36.9 ATEMPIC RADILY CCITTIS DPTIC SPD(KH) SPR(KPA) RI(% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 14 191.5 53.4 14 0.0 4.0 7.2 91.3 36.9 ATEMPIC RADILY CCITTIS DPTIC SPD(KH) SPR(KPA) RI(% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 11.4 91.5 53.4 14 0.0 4.0 7.2 91.3 36.9 ATEMPIC RADILY CCITTIS DPTIC SPD(KH) SPR(KPA) RI(% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 11.4 91.5 53.4 14 0.0 4.0 7.2 91.3 36.9 ATEMPIC RADILY CCITTIS DPTIC SPD(KH) SPR(KPA) RI(% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 14 15 59.8 15.6 575.6 0.0 7.5 6.0 91.9 45.2 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 576.5 0.0 4.6 4.9 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 575.6 0.0 4.6 4.9 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 575.6 0.0 4.6 4.9 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 575.6 0.0 4.6 4.9 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 7.4 90.8 90.8 44.8 17.7 568.8 0.4 8.3 90.8 90.8 90.8 90.8 9								
19.8 377.5 0.1 12.3 10.2 91.3 62.4 13.08 14.08 14.21.6 652.0 0.0 10.3 4.8 91.6 43.3 14.08 14.21.7 471.3 0.2 12.6 4.4 91.4 54.5 12.2 564.1 0.3 10.6 9.1 91.5 47.0 18.9 578.4 0.1 7.0 6.2 91.7 40.6 18.6 392.0 0.4 8.8 7.5 91.5 51.3 ATEMPICO RADILYO CCCTTHS DPTICO SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/14 14.08 14.21.2 472.3 0.3 12.2 5.0 91.4 455.0 15.08 14.21.3 569.8 0.2 98.8 8.5 91.6 42.7 18.9 525.8 0.1 7.5 7.6 91.8 42.8 19.5 559.3 15.6 564.1 0.0 4.0 7.2 91.3 36.9 47.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 57.6 91.8 42.8 19.5 10.5 10.1 11.4 91.5 53.4 10.5								DD MM XX
19.8 377.5 0.1 12.3 10.2 91.3 62.4 13.08 14 21.6 652.0 0.0 10.3 4.8 91.6 43.3 14.08 14 21.7 471.3 0.2 12.6 4.4 91.4 54.5 21.2 564.1 0.3 10.6 9.1 91.5 47.0 18.9 578.4 0.1 7.0 62 91.7 40.6 18.6 392.0 0.4 8.8 7.5 91.5 51.3 ATEMP(C) RADILY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/14 55.0 15.08 14 21.3 569.8 0.2 9.8 8.5 91.6 42.7 18.9 525.8 0.1 7.5 7.6 91.8 42.8 19.5 258.1 0.5 10.1 11.4 91.5 53.4 16.6 564.1 0.0 4.0 7.2 91.3 36.9 ATEMP(C) RADILY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 14 91.5 53.4 16.6 564.1 0.0 4.0 7.2 91.3 36.9 ATEMP(C) RADILY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.5 576.5 0.0 7.5 6.0 91.7 47.5 16.08 14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16.08 14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RADILY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.5 576.5 0.0 0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RADILY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 18.5 576.5 0.0 0 6.5 6.2 91.8 40.1 17.08 14 18.5 576.5 50.0 6.5 6.2 91.8 40.1 17.08 14 18.5 576.5 50.0 6.5 6.2 91.8 40.1 17.08 14 18.5 576.5 50.0 6.5 6.2 91.8 40.1 17.08 14 18.5 576.5 50.0 6.5 6.2 91.8 40.1 17.08 14 18.5 576.5 50.0 6.5 6.2 91.8 40.1 17.08 14 18.5 576.5 50.0 6.5 6.2 91.8 40.1 17.08 14 18.5 576.5 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.	` '					SPR(KPA)	KH(%)	DD MM YY
21.6	ENVIRONMEN.	I CANADA F	ORECAST ISSU	JED AUG 13/1	4			
21.6								
21.6 652.0 0.0 10.3 4.8 91.6 43.3 14 08 14 21.7 471.3 0.2 12.6 4.4 91.4 54.5 21.2 564.1 0.3 10.6 9.1 91.5 47.0 18.9 578.4 0.1 7.0 6.2 91.7 40.6 18.6 392.0 0.4 8.8 7.5 91.5 51.3 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA SPRIKPA DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/14 19.4 498.9 0.0 12.3 2.8 91.6 64.4 14 08 14 21.2 472.3 0.3 12.2 5.0 91.4 55.0 15 08 14 21.3 569.8 0.2 9.8 8.5 91.6 42.7 18.9 525.8 0.1 7.5 7.6 91.8 42.8 19.5 258.1 0.5 10.1 11.4 91.5 53.4 16.6 564.1 0.0 4.0 7.2 91.3 36.9 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.3 296.1 0.2 12.4 2.7 91.4 70.8 15 08 14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16 08 14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16 08 14 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 44.4 7.3 91.3 34.8 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY								
21.7	19.8	377.5	0.1	12.3	10.2	91.3	62.4	13 08 14
21.7	21.6	652.0	0.0	10.3	4.8	91.6	43.3	14 08 14
21.2 564.1 0.3 10.6 9.1 91.5 47.0 18.9 578.4 0.1 7.0 6.2 91.7 40.6 40.6 18.6 392.0 0.4 8.8 7.5 91.5 51.3 ATEMPICO RADILY) CCUTTHS) DPTICO SPDICH SPR(KPA) SPR(KPA) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/14 14.08 14.2								
18.9 578.4 0.1 7.0 6.2 91.7 40.6 18.6 392.0 0.4 8.8 7.5 91.5 51.3 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/14 19.4 498.9 0.0 12.3 2.8 91.6 64.4 14.08.14 21.2 472.3 0.3 12.2 5.0 91.4 55.0 15.08.14 21.3 569.8 0.2 9.8 8.5 91.6 42.7 18.9 525.8 0.1 7.5 7.6 91.8 42.8 19.5 258.1 0.5 10.1 11.4 91.5 53.4 16.6 564.1 0.0 4.0 7.2 91.3 36.9 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.3 296.1 0.2 12.4 2.7 91.4 70.8 15.08.14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16.08.14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16.08.14 18.5 564.5 0.0 6.5 6.2 91.8 40.1 17.08.14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 44 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14								
18.6 392.0 0.4 8.8 7.5 91.5 51.3 ATEMPICO RADILY CCITTHS DPTICO SPD(KH) SPR(KPA) RH% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/14 19.4 498.9 0.0 12.3 2.8 91.6 64.4 14 08 14 21.2 472.3 0.3 12.2 5.0 91.4 55.0 15 08 14 21.3 569.8 0.2 9.8 8.5 91.6 42.7 18.9 525.8 0.1 7.5 7.6 91.8 42.8 19.5 258.1 0.5 10.1 11.4 91.5 53.4 16.6 564.1 0.0 4.0 7.2 91.3 36.9 ATEMPICO RADILY CCITTHS DPTICO SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.3 296.1 0.2 12.4 2.7 91.4 70.8 15 08 14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16 08 14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16 08 14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 8.3 7.4 90.8 52.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 8.9 90.8 44.8 ATEMPICO RADILY CCITTHS DPTICO SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.1 497.1 0.2 44 7.3 91.3 46.8 ATEMPICO RADILY CCITTHS DPTICO SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMPICO RADILY CCITTHS DPTICO SPD(KH) SPR(KPA) RH(%) DD MM YY								
ATEMPIC) RADILY) CCITTHS) DPTIC) SPDICH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/14 19.4 498.9 0.0 12.3 2.8 91.6 64.4 14 08 14 21.2 472.3 0.3 12.2 5.0 91.4 55.0 15 08 14 21.3 569.8 0.2 9.8 8.5 91.6 42.7 18.9 525.8 0.1 7.5 7.6 91.8 42.8 19.5 258.1 0.5 10.1 11.4 91.3 36.9 ATEMPIC) RADILY) CCITTHS) DPTIC) SPDICH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.3 296.1 0.2 12.4 2.7 91.3 36.9 RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 576.5 10.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMPIC) RADILY) CCITTHS) DPTIC) SPDICH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 2.9 91.7 55.8 16.08 14 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMPIC) RADILY) CCITTHS) DPTIC) SPDICH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 2.9 91.7 55.8 16.08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17.08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMPIC) RADILY) CCITTHS) DPTIC) SPDICH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14								
ENVIRONMENT CANADA FORECAST ISSUED AUG 14/14 19.4								
19.4	` ′	, ,			` ′	SPR(KPA)	KH(%)	DD MM YY
21.2	ENVIRONMEN'	Γ CANADA F	ORECAST ISSU	JED AUG 14/1	4			
21.2								
21.2								
21.3 569.8 0.2 9.8 8.5 91.6 42.7 18.9 525.8 0.1 7.5 7.6 91.8 42.8 19.5 258.1 0.5 10.1 11.4 91.5 53.4 16.6 564.1 0.0 4.0 7.2 91.3 36.9 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY 18.3 296.1 0.2 12.4 2.7 91.4 70.8 15.08 14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16.08 14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY <td>19.4</td> <td>498.9</td> <td>0.0</td> <td>12.3</td> <td>2.8</td> <td>91.6</td> <td>64.4</td> <td>14 08 14</td>	19.4	498.9	0.0	12.3	2.8	91.6	64.4	14 08 14
18.9 525.8 0.1 7.5 7.6 91.8 42.8 19.5 258.1 0.5 10.1 11.4 91.5 53.4 16.6 564.1 0.0 4.0 7.2 91.3 36.9 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.3 296.1 0.2 12.4 2.7 91.4 70.8 15.08 14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16.08 14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16.08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	21.2	472.3	0.3	12.2	5.0	91.4	55.0	15 08 14
18.9 525.8 0.1 7.5 7.6 91.8 42.8 19.5 258.1 0.5 10.1 11.4 91.5 53.4 16.6 564.1 0.0 4.0 7.2 91.3 36.9 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 2.7 91.4 70.8 15.08 14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16.08 14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CA	21.3	569.8	0.2	9.8	8.5	91.6	42.7	
19.5	18.9	525.8	0.1	7.5		91.8	42.8	
16.6 564.1 0.0 4.0 7.2 91.3 36.9 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.3 296.1 0.2 12.4 2.7 91.4 70.8 15 08 14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16 08 14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.3 296.1 0.2 12.4 2.7 91.4 70.8 15 08 14 20.4 623.3 0.2 9.9 9.0 91.7 47.5 16 08 14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY PY PREMIUM AUG 15 15 10								
ENVIRONMENT CANADA FORECAST ISSUED AUG 15/14 18.3								DD MM VV
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20.4 623.3 0.2 9.9 9.0 91.7 47.5 16 08 14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2	ENVIRONMEN	I CANADA F	ORECAST ISSU	JED AUG 15/ I	4			
20.4 623.3 0.2 9.9 9.0 91.7 47.5 16 08 14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2								
20.4 623.3 0.2 9.9 9.0 91.7 47.5 16 08 14 18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2								
18.5 576.5 0.0 7.5 6.0 91.9 45.2 18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT		296.1				91.4	70.8	
18.5 267.7 0.5 10.5 8.8 91.5 59.8 17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	20.4	623.3	0.2	9.9	9.0	91.7	47.5	16 08 14
17.7 568.8 0.4 8.3 7.4 90.8 52.8 15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 AUG 16/14 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	18.5	576.5	0.0	7.5	6.0	91.9	45.2	
15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	18.5	267.7	0.5	10.5	8.8	91.5	59.8	
15.6 573.6 0.0 4.6 4.9 90.8 44.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	17.7	568.8	0.4	8.3	7.4	90.8	52.8	
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								
ENVIRONMENT CANADA FORECAST ISSUED AUG 16/14 21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								DD MM YY
21.4 483.7 0.2 12.6 20.9 91.7 55.8 16 08 14 18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	` '					STIGHT II)	141(70)	<i>DD</i> 11111 1 1
18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	EN VIIXONIVIEN	I CANADA I	OKECASI ISSC	DED AUG 10/1	7			
18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								
18.5 642.5 0.0 6.5 6.2 91.8 40.1 17 08 14 19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	21.4	402.5	0.2	10.6	20.0	01.5	77 0	160014
19.3 304.0 0.1 9.3 10.9 91.4 49.8 16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								
16.2 578.4 0.1 3.1 7.5 90.9 34.8 15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								17 08 14
15.2 559.3 0.0 3.0 4.7 90.9 39.3 15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								
15.1 497.1 0.2 4.4 7.3 91.3 46.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	16.2	578.4	0.1	3.1	7.5	90.9	34.8	
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	15.2	559.3	0.0	3.0	4.7	90.9	39.3	
	15.1	497.1	0.2	4.4	7.3	91.3	46.8	
	ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
		, ,				. ,	` /	

18.4	473.8	0.1	9.9	13.5	91.8	57.4	17 08 14
18.1	239.0	0.8	11.3	8.9	91.4	65.8	18 08 14
15.2	568.8	0.1	6.1	8.2	91.1	54.5	
15.1	559.3	0.0	3.7	4.6	91.2	43.1	
14.8	420.7	0.5	4.3	6.0	91.6	47.3	
14.3	554.5	0.0	2.8	5.8	92.8	42.8	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	T CANADA F	ORECAST ISSU	UED AUG 18/1	4			
17.5	202.9	0.5	12.3	12.9	91.4	73.9	18 08 14
15.8	636.7	0.0	4.4	7.7	91.1	42.9	19 08 14
14.8	548.8	0.1	4.0	4.6	91.3	45.9	
15.2	549.7	0.2	5.0	7.8	91.7	49.2	
14.2	568.8	0.1	1.8	8.0	92.2	37.9	
13.8	430.2	0.5	1.9	4.1	92.2	40.8	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	T CANADA F	ORECAST ISSU	UED AUG 19/14	4			
15.2	508.2	0.2	7.0	17.9	91.1	58.9	19 08 14
14.4	608.0	0.1	4.1	4.5	91.3	48.5	20 08 14
14.9	524.9	0.3	4.7	7.2	91.7	48.6	
14.8	559.3	0.1	3.4	7.5	92.3	42.9	
14.2	544.9	0.1	3.7	4.3	92.2	47.6	
14.5	544.9	0.1	4.6	4.8	91.9	50.5	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	T CANADA F	ORECAST ISSU	UED AUG 20/1	4			

APPENDIX E Summer Water Temperature and Flow Management Project Reservoir Release Volume Calculations for July 10 to August 20, 2014

 ${\bf Appendix \ E}$ Summer Water Temperature and Flow Management Project Reservoir Release Volume Calculations for July 10 to August 20, 2014

Skins Lake Spillway base release for the period July 10 (191) to August 20 (232) = $49.0 \text{ m}^3/\text{s}$ Summer Water Temperature and Flow Management Project Base Release Volume = (JD 227 - JD 191) * $49.0 + (\text{JD } 232 - \text{JD } 227) * 14.16 = 1,834.8 \text{ m}^3/\text{s}*days$

Time period (Julian Day)		Time (hrs)	Flow Rate (m³/s)	Volume (m³/s*hrs)
July 10 (191) @ 2400 hrs to July 11 (192) @ 0800 hrs		32.0	49.0	1,568
July 11 (192) @ 0800 hrs to July 13 (194) @ 0800 hrs		48.0	136.0	6,528
July 13 (194) @ 0800 hrs to July 16 (197) @ 1600 hrs		80.0	223.0	17,840
July 16 (197) @ 1600 hrs to July 18 (199) @ 1600 hrs		48.0	453.0	21,744
July 18 (199) @ 1600 hrs to July 20 (201) @ 1600 hrs		48.0	14.2	682
July 20 (201) @ 1600 hrs to July 24 (205) @ 1600 hrs		96.0	170.0	16,320
July 24 (205) @ 1400 hrs to July 27 (208) @ 1600 hrs		72.0	453.0	32,616
July 27 (208) @ 1600 hrs to August 4 (216) @ 1600 hrs		192.0	283.0	54,336
August 4 (216) @ 1600 hrs to August 7 (219) @ 1600 hrs		72.0	14.2	1,022
August 7 (219) @ 1600 hrs to August 9 (221) @ 1600 hrs		48.0	170.0	8,160
August 9 (221) @ 1600 hrs to August 12 (224) @ 1600 hrs		72.0	453.0	32,616
August 12 (224) @ 1600 hrs to August 15 (227) @ 1600 hrs		72.0	283.0	20,376
August 15 (227) @ 1600 hrs to August 20 (232) @ 2400 hrs		128.0	14.2	1,818
	Total	1,008 (42.0 days)	<u> </u>	215,626
Total Release Volume	= 8	215,626 m³/ 3,984.4 m³/s 317,284 cfs	s*days	
Volume Released for Cooling Purposes	= 8 = 7	Fotal Volum 3,984.4 - 1,8 7,149.6 m ³ /s 252,488 cfs	s*days	
Average Release over Summer Management Period (July 10 to August 20)	= 2	3,984.4 m ³ /s 213.9 m ³ /s 7,554.4 cfs	s*days / 42 days	