

**Current River / Boulevard Lake Dam
Water Management Report 2008**

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City of Thunder Bay
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Current River / Boulevard Lake Dam Water Management Report 2008

Introduction

A water management plan was completed in March 2006 for Boulevard Lake (Current River) Dam. This report provides data and analysis on the operation of the fish ladder, dam and generating station.

The main information gaps surrounding the operation of the dam and generating station relate to water flows and levels through the fishway. This information is necessary to promote Rainbow Trout movement upstream and up through the fishway. A monitoring and reporting program for stop log configuration, reservoir water level and flow through the fishway during times of expected Rainbow Trout runs is provided in this report to evaluate these operations.

Boulevard Lake Level

A level recorder is in operation and the signal is transmitted to the Bare Point Water Treatment Plant via a SCADA System. These measurements are taken and logged every 12 seconds, along with all the other data points, then put in the archive files, so not to fill the hard drive of the computer.

The average recorded levels of Boulevard Lake from May 27, 2008 to October 28, 2008 are shown on a weekly basis in the following Table 1.0 and Figure 1.0.

Date	Lake Level	Date	Lake Level
27-May-08	211.83	19-Aug-08	210.43
03-Jun-08	212.054	26-Aug-08	211.074
10-Jun-08	212.058	02-Sep-08	208.209
17-Jun-08	212.061	09-Sep-08	209.234
24-Jun-08	211.928	16-Sep-08	211.739
01-Jul-08	212.059	23-Sep-08	211.306
08-Jul-08	212.059	30-Sep-08	211.999
15-Jul-08	212.059	07-Oct-08	211.497
22-Jul-08	211.981	14-Oct-08	211.676
29-Jul-08	212.062	21-Oct-08	211.416
05-Aug-08	211.751	28-Oct-08	210.648
12-Aug-08	211.433		

Table 1.0 – Boulevard Lake Level

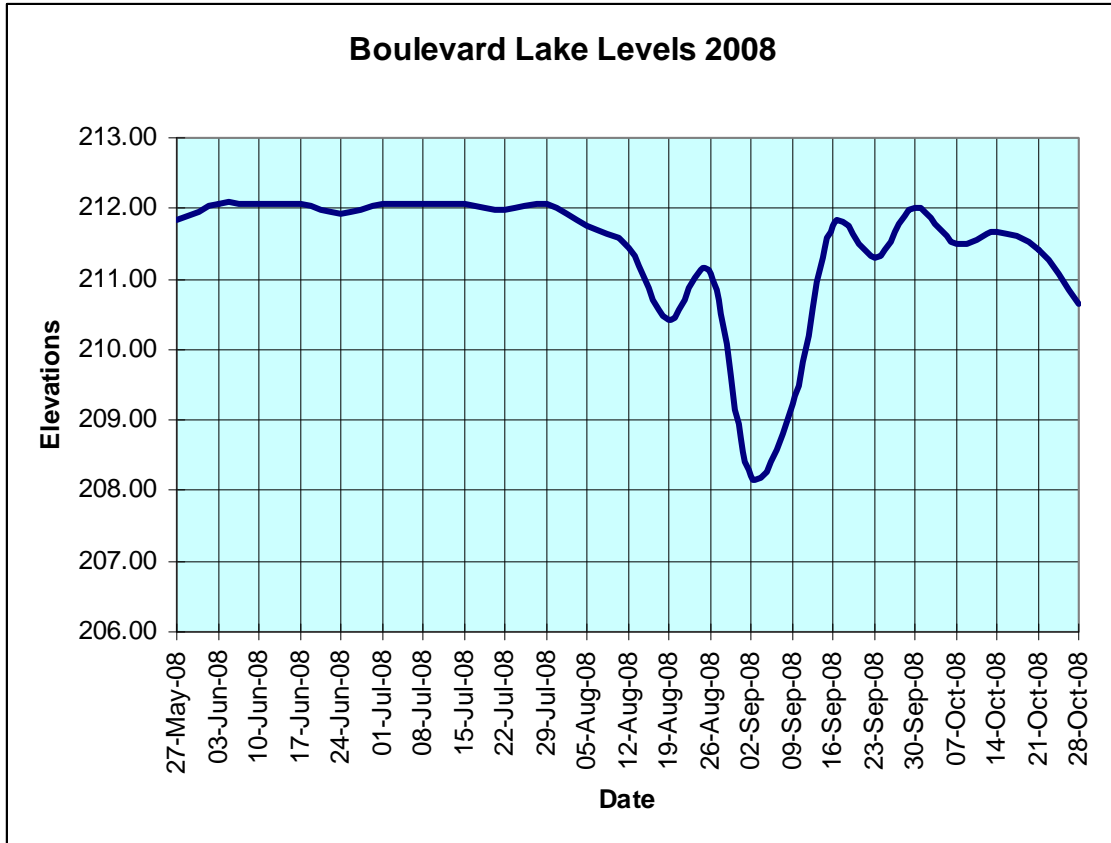


Figure 1.0 - Boulevard Lake Level

Stop Log Configuration

Spring 2008

Operation of the stop logs within the dam structure and the fishway occurred during the recording period of April 1, 2008 to October 15, 2008.

A permanent diary was located in the gatehouse for maintenance staff to accurately record the configuration of the stop logs; the level of water passing over the stop logs and if any fish are spotted using the ladder.

Due to extreme ice conditions in the winter of 2008, the fish ladder remained full of ice in early April of 2008.

Recording of the water level in the fish ladder commenced on April 21, 2008 when the ice had melted away enough to install the logger. Monitoring continued through to June 15, 2008 when the level logger was removed.

Two aluminium gates that were removed last year from the fish ladder were not re-installed. With these gates out, the flow of water through the fish ladder seemed to be aided. The elevation of the concrete notch is 210.045 with the gates removed.

The Winter Setting of the logs was changed on April 22, 2008, to the Summer Setting when all the ice had completely melted from Boulevard Lake.

One stop log was removed from chute number 1 or the fish ladder chute to try to increase the flow through the ladder.

The data recorded in this time period is shown in Figure 3.0. The 30 cm range shown between elevation 210.545 and 210.845 is the ideal water level through the fish ladder with the lower elevation representing the top of the wall notch in the top rung of the fish ladder.

Routine Maintenance

In August 2008 Boulevard Lake was drained so that an inspection of the dam could take place by a consultant under contract to the City of Thunder Bay.

In the period from August 28 to August 29, 2008, six stop logs were removed from chutes one and two. Five stop logs were removed from chutes three and four, while one stop log was removed from chutes five to twelve.

An inspection of the entire structure took place from September 1 to 3, 2008.

From September 4 to 5, 2008, all stop logs were returned to their chutes and set to the summer stop log configuration.

Figure 2: Boulevard Lake Dam Seasonal Operations

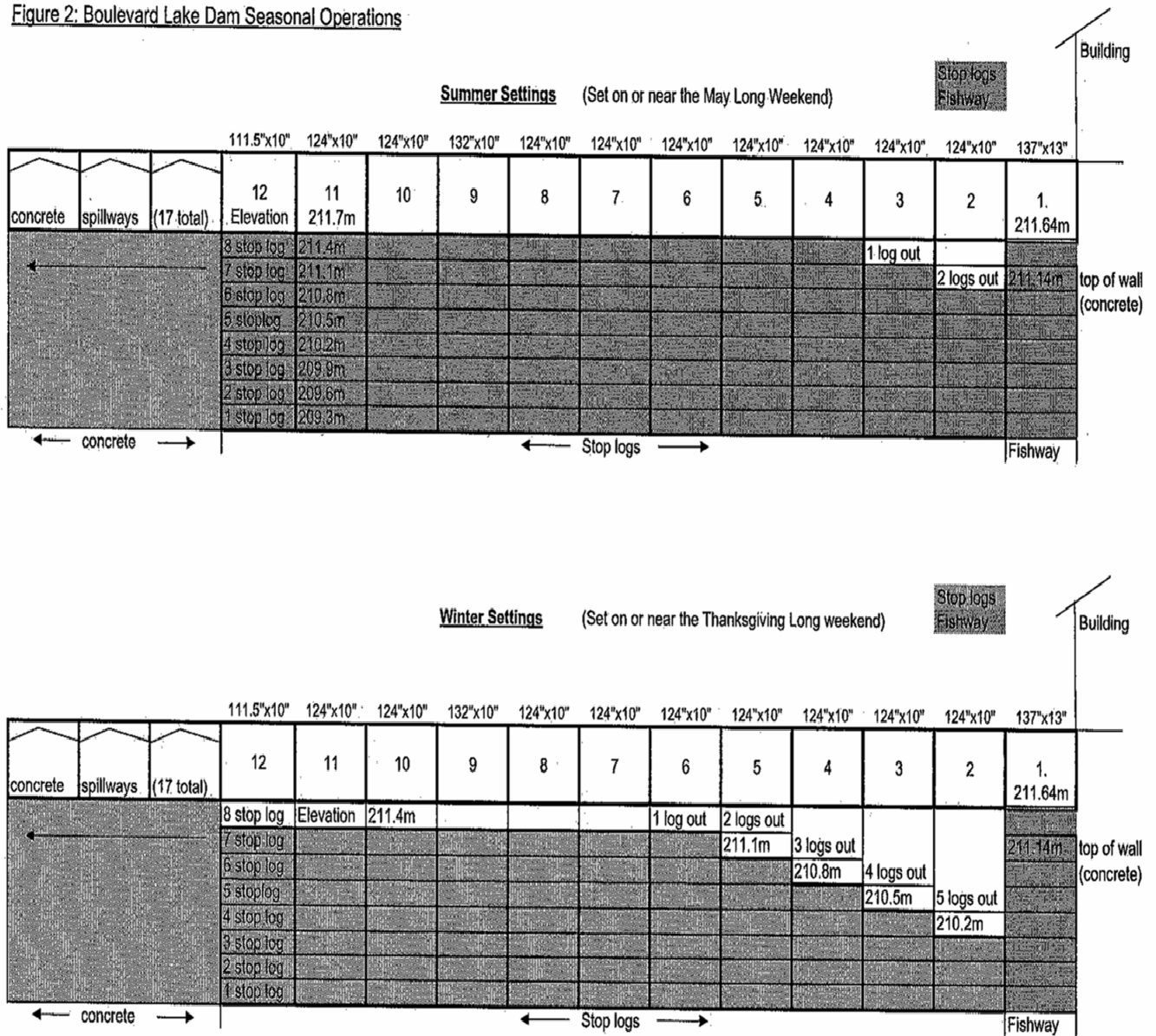


Figure 2.0 - Demonstrates the winter and summer stop log settings.

Fish Ladder Records

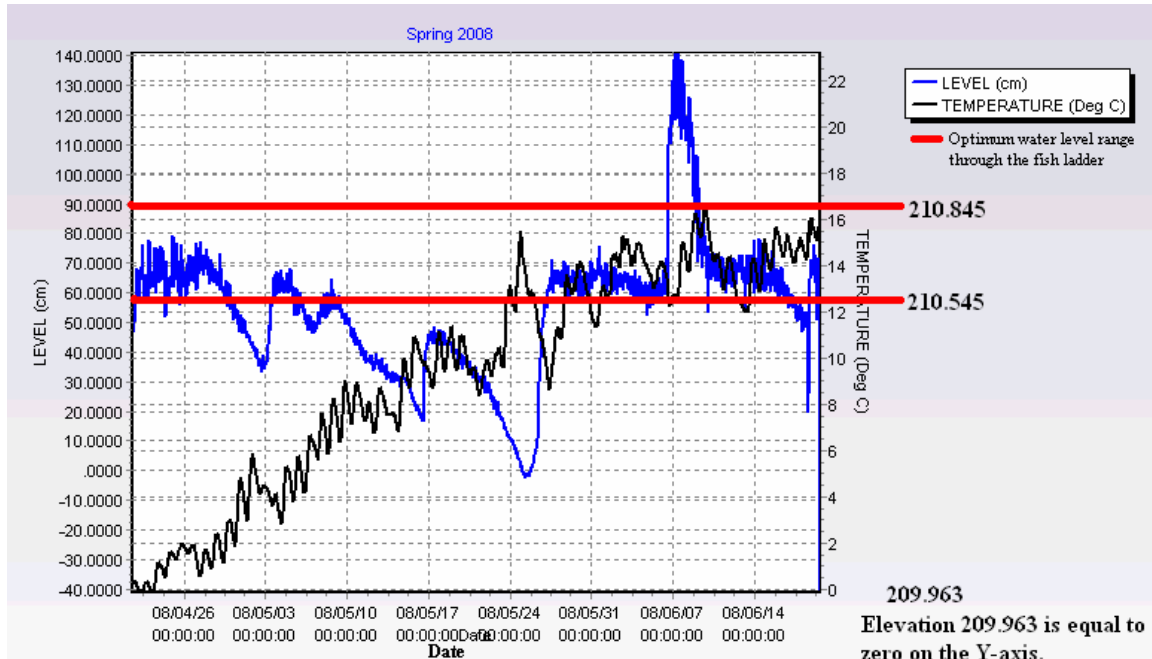


Figure 3.0 - Water Level Fish Ladder Spring 2008

See Appendix “A” for pivot table data for Spring 2008.

Fall 2008

The level logger was put back into service on September 12, 2008 and began recording data on September 15, 2008 through to October 17, 2008 when the level logger was once again removed.

The two aluminium gates in the fish ladder remained out during this recording period.

At the time the level logger was put back into the dam, the lake had not recharged itself to allow water through the fish ladder. By the time the recording period had started, significant amounts of precipitation had been received and water was flowing through the fish ladder as indicated by the graph.

The data recorded in this time period is shown in Figure 4.0.

The Winter Setting of the logs was achieved on October 23, 2008 when the lake was drained for winter maintenance.

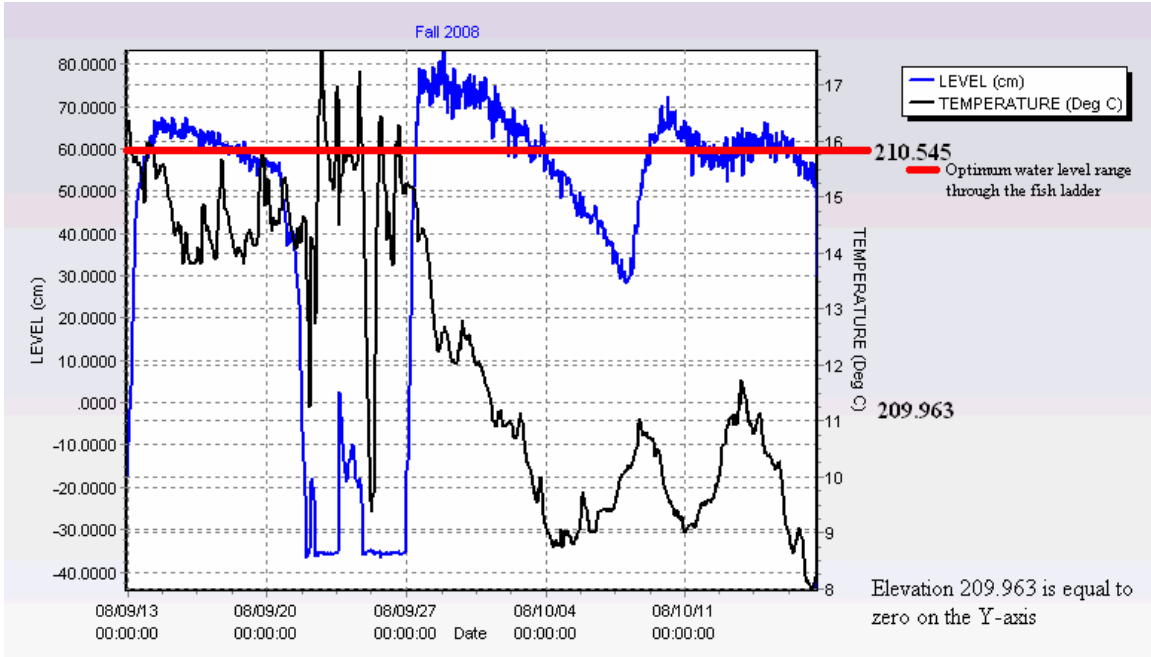


Figure 4.0 - Water Level Fish Ladder Fall 2008

See Appendix “B” for pivot table data for Fall 2008.

Generating Station Records

Run Time Records are not available for the power generating station.

The lease agreement does not require the owner of the power generating station to provide detailed run time records to the City of Thunder Bay. When the owner of the power generating station was contacted on November 7, 2006, and asked to produce any run time records for the generating station, he said, “I do not have any record of run time schedules for the generating station”.

The agreement and protocols state that that the power generator is able to draw water 0.15 m below the level set by the City as long as water is allowed to spill daily to maintain a clean lake surface” during the months that he is permitted to operate.

Based on this protocol, it is estimated that water is being used for generating electricity during certain periods as shown in Table 2.0.

Date	Lake Level	Date	Lake Level
27-May-08	212.88	19-Aug-08	211.68
03-Jun-08	213.05	26-Aug-08	212.22
10-Jun-08	213.06	02-Sep-08	209.8
17-Jun-08	213.06	09-Sep-08	210.66
24-Jun-08	212.95	16-Sep-08	212.79
01-Jul-08	213.06	23-Sep-08	212.42
08-Jul-08	213.06	30-Sep-08	213.01
15-Jul-08	213.06	07-Oct-08	212.58
22-Jul-08	212.99	14-Oct-08	212.73
29-Jul-08	213.06	21-Oct-08	212.51
05-Aug-08	212.8	28-Oct-08	211.86
12-Aug-08	212.53		

Table 2.0 - Period of Power Generation Assumed

June 9, 2009
City of Thunder Bay
Engineering Division

Appendix “A”
Spring 2008 Pivot Table Data

Spring 2008 Data
April 21 - June 15, 2008

Date	Data	Total
21/04/2008	Min of LEVEL	-37.60
	Max of LEVEL	64.60
	Average of LEVEL	46.42
	Min of TEMPERATURE	0.20
	Max of TEMPERATURE	22.10
	Average of TEMPERATURE	2.49
22/04/2008	Min of LEVEL	57.60
	Max of LEVEL	76.30
	Average of LEVEL	65.08
	Min of TEMPERATURE	-0.08
	Max of TEMPERATURE	0.34
	Average of TEMPERATURE	0.11
23/04/2008	Min of LEVEL	58.40
	Max of LEVEL	77.80
	Average of LEVEL	67.48
	Min of TEMPERATURE	-0.10
	Max of TEMPERATURE	1.17
	Average of TEMPERATURE	0.44
24/04/2008	Min of LEVEL	52.00
	Max of LEVEL	75.50
	Average of LEVEL	65.94
	Min of TEMPERATURE	0.53
	Max of TEMPERATURE	1.66
	Average of TEMPERATURE	1.06
25/04/2008	Min of LEVEL	56.00
	Max of LEVEL	79.20
	Average of LEVEL	67.48
	Min of TEMPERATURE	1.29
	Max of TEMPERATURE	2.06
	Average of TEMPERATURE	1.65
26/04/2008	Min of LEVEL	59.10
	Max of LEVEL	72.80
	Average of LEVEL	66.11
	Min of TEMPERATURE	1.57
	Max of TEMPERATURE	1.98
	Average of TEMPERATURE	1.77
27/04/2008	Min of LEVEL	61.10
	Max of LEVEL	77.20
	Average of LEVEL	70.04
	Min of TEMPERATURE	0.59
	Max of TEMPERATURE	1.75
	Average of TEMPERATURE	1.22
28/04/2008	Min of LEVEL	62.70
	Max of LEVEL	71.90

	Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	66.58 0.94 2.43 1.62
29/04/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	54.50 73.00 61.48 1.20 3.04 2.07
30/04/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	47.20 58.20 53.13 1.93 4.84 3.18
01/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	41.50 51.70 45.76 2.99 5.90 4.36
02/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	33.60 41.70 37.64 4.16 5.64 4.68
03/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	35.80 65.90 50.92 3.66 4.48 4.10
04/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	59.90 67.60 63.11 2.84 5.34 3.97
05/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	52.40 67.90 59.33 3.86 5.79 4.85
06/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE	47.30 60.20 52.88 4.19

	Max of TEMPERATURE	6.68
	Average of TEMPERATURE	5.30
07/05/2008	Min of LEVEL	46.50
	Max of LEVEL	57.20
	Average of LEVEL	50.72
	Min of TEMPERATURE	5.64
	Max of TEMPERATURE	7.64
	Average of TEMPERATURE	6.54
08/05/2008	Min of LEVEL	51.70
	Max of LEVEL	64.60
	Average of LEVEL	57.15
	Min of TEMPERATURE	5.87
	Max of TEMPERATURE	8.31
	Average of TEMPERATURE	7.08
09/05/2008	Min of LEVEL	49.60
	Max of LEVEL	58.90
	Average of LEVEL	54.20
	Min of TEMPERATURE	6.41
	Max of TEMPERATURE	9.03
	Average of TEMPERATURE	7.61
10/05/2008	Min of LEVEL	42.50
	Max of LEVEL	51.60
	Average of LEVEL	46.70
	Min of TEMPERATURE	7.19
	Max of TEMPERATURE	9.01
	Average of TEMPERATURE	8.15
11/05/2008	Min of LEVEL	36.30
	Max of LEVEL	44.10
	Average of LEVEL	39.64
	Min of TEMPERATURE	7.30
	Max of TEMPERATURE	8.65
	Average of TEMPERATURE	7.91
12/05/2008	Min of LEVEL	33.60
	Max of LEVEL	39.40
	Average of LEVEL	36.30
	Min of TEMPERATURE	6.80
	Max of TEMPERATURE	8.74
	Average of TEMPERATURE	7.72
13/05/2008	Min of LEVEL	30.10
	Max of LEVEL	37.70
	Average of LEVEL	33.05
	Min of TEMPERATURE	7.56
	Max of TEMPERATURE	8.55
	Average of TEMPERATURE	7.88
14/05/2008	Min of LEVEL	28.30
	Max of LEVEL	33.30
	Average of LEVEL	31.16
	Min of TEMPERATURE	6.88
	Max of TEMPERATURE	10.01
	Average of TEMPERATURE	8.08

15/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	21.00 31.40 26.78 8.72 10.96 9.76
16/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	16.80 43.20 26.49 9.50 10.74 10.03
17/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	42.10 48.70 45.16 8.76 11.18 9.61
18/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	41.90 47.50 43.59 9.43 11.36 10.38
19/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	34.60 42.50 39.27 9.51 11.35 10.35
20/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	31.60 38.20 35.31 9.33 10.97 9.86
21/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	26.20 35.10 30.94 8.41 9.91 9.11
22/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	18.70 29.90 24.65 9.24 10.31 9.81
23/05/2008	Min of LEVEL Max of LEVEL	11.30 20.20

	Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	15.73 9.62 13.02 10.97
24/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	2.40 11.30 6.92 12.01 15.50 13.33
25/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	-2.10 2.00 -0.45 12.59 15.29 13.49
26/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	2.40 54.30 26.52 10.40 12.84 11.49
27/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	54.90 71.30 62.15 8.69 11.07 9.74
28/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	58.20 70.40 65.12 10.84 13.66 11.89
29/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	58.10 69.30 63.52 12.81 14.11 13.32
30/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	59.10 67.70 63.37 12.05 14.20 13.28
31/05/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE	61.70 75.70 67.13 11.35

	Max of TEMPERATURE	13.06
	Average of TEMPERATURE	11.95
01/06/2008	Min of LEVEL	59.80
	Max of LEVEL	70.00
	Average of LEVEL	64.53
	Min of TEMPERATURE	12.48
	Max of TEMPERATURE	14.49
	Average of TEMPERATURE	13.20
02/06/2008	Min of LEVEL	59.40
	Max of LEVEL	68.60
	Average of LEVEL	64.51
	Min of TEMPERATURE	13.94
	Max of TEMPERATURE	15.32
	Average of TEMPERATURE	14.62
03/06/2008	Min of LEVEL	58.60
	Max of LEVEL	67.40
	Average of LEVEL	62.72
	Min of TEMPERATURE	14.02
	Max of TEMPERATURE	15.17
	Average of TEMPERATURE	14.56
04/06/2008	Min of LEVEL	52.70
	Max of LEVEL	65.40
	Average of LEVEL	60.05
	Min of TEMPERATURE	13.71
	Max of TEMPERATURE	15.01
	Average of TEMPERATURE	14.39
05/06/2008	Min of LEVEL	54.80
	Max of LEVEL	65.10
	Average of LEVEL	59.92
	Min of TEMPERATURE	13.06
	Max of TEMPERATURE	14.13
	Average of TEMPERATURE	13.53
06/06/2008	Min of LEVEL	57.80
	Max of LEVEL	128.20
	Average of LEVEL	84.76
	Min of TEMPERATURE	12.26
	Max of TEMPERATURE	14.19
	Average of TEMPERATURE	13.29
07/06/2008	Min of LEVEL	112.00
	Max of LEVEL	141.10
	Average of LEVEL	129.50
	Min of TEMPERATURE	12.43
	Max of TEMPERATURE	15.06
	Average of TEMPERATURE	13.46
08/06/2008	Min of LEVEL	87.30
	Max of LEVEL	126.20
	Average of LEVEL	110.67
	Min of TEMPERATURE	13.78
	Max of TEMPERATURE	16.30
	Average of TEMPERATURE	14.86

09/06/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	64.90 106.30 78.74 15.24 16.71 15.95
10/06/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	53.60 75.70 68.54 14.22 15.96 14.73
11/06/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	60.20 72.00 66.18 13.02 14.44 13.83
12/06/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	62.00 72.80 68.28 12.25 14.20 12.97
13/06/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	54.30 77.90 67.76 12.00 14.32 12.79
14/06/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	60.00 78.30 66.53 12.91 15.16 13.93
15/06/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	60.40 74.20 64.77 13.81 15.69 14.64

Appendix “B”

Fall 2008 Pivot Table Data

Fall 2008 Data
September 15 - October 15, 2008

Date	Data	Total
15/09/2008	Min of LEVEL	62.40
	Max of LEVEL	67.50
	Average of LEVEL	64.45
	Min of TEMPERATURE	13.80
	Max of TEMPERATURE	15.24
	Average of TEMPERATURE	14.49
16/09/2008	Min of LEVEL	59.80
	Max of LEVEL	66.10
	Average of LEVEL	63.40
	Min of TEMPERATURE	13.81
	Max of TEMPERATURE	14.88
	Average of TEMPERATURE	14.09
17/09/2008	Min of LEVEL	59.10
	Max of LEVEL	64.40
	Average of LEVEL	61.74
	Min of TEMPERATURE	13.89
	Max of TEMPERATURE	15.67
	Average of TEMPERATURE	14.57
18/09/2008	Min of LEVEL	56.60
	Max of LEVEL	61.90
	Average of LEVEL	59.65
	Min of TEMPERATURE	13.81
	Max of TEMPERATURE	14.76
	Average of TEMPERATURE	14.18
19/09/2008	Min of LEVEL	53.80
	Max of LEVEL	60.30
	Average of LEVEL	57.12
	Min of TEMPERATURE	14.12
	Max of TEMPERATURE	15.77
	Average of TEMPERATURE	14.71
20/09/2008	Min of LEVEL	42.80
	Max of LEVEL	57.20
	Average of LEVEL	53.52
	Min of TEMPERATURE	14.39
	Max of TEMPERATURE	15.36
	Average of TEMPERATURE	14.85
21/09/2008	Min of LEVEL	-21.80
	Max of LEVEL	40.60
	Average of LEVEL	21.82
	Min of TEMPERATURE	14.07
	Max of TEMPERATURE	15.12
	Average of TEMPERATURE	14.46
22/09/2008	Min of LEVEL	-36.50

	Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	-18.10 -32.45 11.24 17.62 14.82
23/09/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	-36.10 2.50 -24.98 14.49 16.99 15.68
24/09/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	-36.10 -9.90 -19.45 12.96 17.24 15.64
25/09/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	-36.60 -34.90 -35.43 9.38 16.46 12.99
26/09/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	-36.10 -35.20 -35.58 13.79 16.30 15.02
27/09/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	-23.30 79.20 46.17 14.22 15.25 14.79
28/09/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	70.30 83.30 75.72 12.23 14.30 12.95
29/09/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	67.00 78.90 73.22 12.02 12.80 12.32
30/09/2008	Min of LEVEL Max of LEVEL Average of LEVEL	69.70 77.50 73.37

	Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	11.75 12.53 12.15
01/10/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	62.40 76.90 69.60 10.89 11.68 11.18
02/10/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	57.90 69.60 64.38 10.54 11.15 10.88
03/10/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	54.60 65.60 60.79 9.17 10.43 9.86
04/10/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	48.30 58.50 54.53 8.74 9.15 8.88
05/10/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	43.90 53.60 48.86 8.80 9.72 9.09
06/10/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	39.00 46.70 43.20 9.00 9.48 9.23
07/10/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE Average of TEMPERATURE	29.40 40.20 34.58 9.38 10.09 9.65
08/10/2008	Min of LEVEL Max of LEVEL Average of LEVEL Min of TEMPERATURE Max of TEMPERATURE	28.30 55.20 39.88 10.09 11.04

	Average of TEMPERATURE	10.48
09/10/2008	Min of LEVEL	56.30
	Max of LEVEL	70.10
	Average of LEVEL	62.52
	Min of TEMPERATURE	9.87
	Max of TEMPERATURE	10.80
	Average of TEMPERATURE	10.47
10/10/2008	Min of LEVEL	61.90
	Max of LEVEL	72.20
	Average of LEVEL	65.46
	Min of TEMPERATURE	9.01
	Max of TEMPERATURE	9.82
	Average of TEMPERATURE	9.42
11/10/2008	Min of LEVEL	53.80
	Max of LEVEL	66.60
	Average of LEVEL	61.23
	Min of TEMPERATURE	9.01
	Max of TEMPERATURE	9.54
	Average of TEMPERATURE	9.24
12/10/2008	Min of LEVEL	55.00
	Max of LEVEL	60.90
	Average of LEVEL	57.86
	Min of TEMPERATURE	9.49
	Max of TEMPERATURE	10.59
	Average of TEMPERATURE	9.85
13/10/2008	Min of LEVEL	52.40
	Max of LEVEL	65.00
	Average of LEVEL	59.24
	Min of TEMPERATURE	10.57
	Max of TEMPERATURE	11.74
	Average of TEMPERATURE	11.12
14/10/2008	Min of LEVEL	56.90
	Max of LEVEL	64.00
	Average of LEVEL	61.20
	Min of TEMPERATURE	10.55
	Max of TEMPERATURE	11.50
	Average of TEMPERATURE	10.99
15/10/2008	Min of LEVEL	57.00
	Max of LEVEL	66.30
	Average of LEVEL	61.59
	Min of TEMPERATURE	9.52
	Max of TEMPERATURE	10.52
	Average of TEMPERATURE	10.20