



PUBLIC UTILITY DISTRICT NO. 1 of CHELAN COUNTY

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February 28, 2008

VIA ELECTRONIC FILING

Honorable Kimberly D. Bose, Secretary
FEDERAL ENERGY REGULATORY COMMISSION
888 First Street, NE
Washington, DC 20426

Re: **Lake Chelan Hydroelectric Project No. 637-037**
Article 405 – 2007 Annual Flow Report dated February 28, 2008

Dear Secretary Bose:

The Federal Energy Regulatory Commission (Commission) issued the “Order Modifying and Approving Operations Compliance and Monitoring Plan (Plan), Article 405” on November 30, 2007. The Plan satisfied the License Article 405 requirement of the “Order on Offer of Settlement and Issuing New License”¹ (License) and “Order on Rehearing”² for the Lake Chelan Hydroelectric Project (Project) on November 6, 2006, and April 19, 2007, respectively.

Under Ordering Paragraph (B) modifying the Plan under Article 405, Chelan PUD is required to file the following report with the Commission.

(B) The licensee shall file annually with the Commission by February 28, beginning 2008, their Annual Flow Report. If construction of the low level outlet is not completed as scheduled and corresponding flow data is not available for the 2008 Annual Flow Report (to be filed with the Commission by February 28, 2009), the licensee shall provide a status update regarding associated construction activities and applicable extension of time request(s) in their associated report. Additionally, the report shall be coordinated with the reporting of water quality data and biological evaluations required under the Washington Department of Ecology’s 401 Water Quality Certificate Condition V.B and associated Quality Assurance Project Plan under license Article 401. The licensee shall allow the resource agencies, Tribes and non-governmental organizations specified under Article 405, 30 days to provide comments and/or recommendations on their report before filing with the Commission. The filing shall include comments and/or

¹ 117 FERC ¶ 62,129

² 119 FERC ¶ 61,055

recommendations from the consulted entities and the licensee's response to any comments. If the licensee does not adopt a recommendation, the report shall include the licensee's reasons, based on project-specific information. Based on review of the report, the Commission reserves the right to require changes to the project to ensure compliance with the license.

In accordance with the above Order requirement, Chelan PUD hereby files the 2007 Annual Flow Report dated February 28, 2008. A final draft of this report was provided on January 25, 2008, to the resource agencies, Tribes and non-governmental organizations specified under Article 405 for 30-day review.³ None of the recipients provided any comments.

Please do not hesitate to contact me or Steve Hays (509-661-4181) of my office regarding any questions or comments regarding this plan.

Sincerely,



Michelle Smith
Licensing and Compliance Manager
michelle.smith@chelanpud.org
(509) 661-4180

cc: Erich Gaedeke, FERC-PRO

Enclosure: Lake Chelan 2007 Annual Flow Report

³ This correspondence is available at the following Internet address:
http://www.chelanpud.org/departments/licensingCompliance/lc_implementation/comm/corres/9551_1.pdf.

LAKE CHELAN ANNUAL FLOW REPORT 2007

LICENSE ARTICLES 405 & 408

Final

**LAKE CHELAN HYDROELECTRIC PROJECT
FERC Project No. 637**

February 28, 2008



**Public Utility District No. 1 of Chelan County
Wenatchee, Washington**

TABLE OF CONTENTS

EXECUTIVE SUMMARY 1

SECTION 1: INTRODUCTION..... 2

SECTION 2: CHELAN RIVER INSTREAM FLOWS..... 4
 2.1 Chelan River Instream Flows.....4

SECTION 3: CHELAN RIVER RAMPING RATES 5
 3.1 Ramping Rate Studies.....5

SECTION 4: POWERHOUSE TAILRACE SECURITY FLOWS..... 6
 4.1 Powerhouse Operations.....6

SECTION 5: SUMMARY..... 8

**APPENDIX A: DAILY AVERAGE LAKE CHELAN ELEVATIONS, POWERHOUSE
 FLOWS AND TAILWATER ELEVATIONS AND CHELAN RIVER FLOWS FROM
 SPILL, LOW LEVEL OUTLET AND PUMPING STATION..... 9**

LIST OF TABLES

Table 1. Preliminary Chelan River Ramping Rates.....6

LIST OF FIGURES

Figure 1. Spillway Flow Releases to the Chelan River, 2007.....5

Figure 2. Chelan Powerhouse Daily Average Flows, 2007.7

Figure 3. Chelan Powerhouse Daily Average Tailwater Elevations, 2007.....8

EXECUTIVE SUMMARY

Chelan PUD recently received a new license (License) from the Federal Energy Regulatory Commission (FERC)¹, authorizing Chelan PUD to operate the Lake Chelan dam and powerhouse for a period of 50 years. License Article 405 required Chelan PUD, within one year of the license issuance date, to file an Operations Compliance Monitoring Plan (OCMP), which was to describe how Chelan PUD will comply with the instream flows, ramping rates, and tailrace flows as set forth in Article 7 of the Lake Chelan Settlement Agreement and Chapter 7 of the Comprehensive Plan attached to the Settlement Agreement. License Article 408 requires monitoring of flows in the project tailrace and in Reach 4 of the Chelan River and annual reporting of the monitoring results. The FERC order approving the OCMP requires that Chelan PUD shall file an Annual Flow Report with the FERC Commission, beginning by February 28 of 2008. Although the flow release structures, minimum flows and fish habitat enhancements set forth in the Lake Chelan Settlement Agreement and Comprehensive Plan were not in place during 2007, Chelan PUD is providing this first Annual Flow Report to document 2007 flow releases from the spill-way, Chelan River ramping rate studies, tailrace flows, and daily average tailwater elevations.

This Annual Flow Report includes three sections that correspond to the flow reporting requirements of the FERC order: Section 2, Chelan River instream flows; Section 3, Chelan River ramping rates; and Section 4, powerhouse tailrace security flows. Since flow release facilities (Low Level Outlet and Tailrace Pumping Station) and enhanced salmon and steelhead habitat areas in the Chelan River and tailrace were not completed and there were no minimum flow releases in 2007, Section 2, Chelan River Instream Flows, is limited to documenting flows released from the spillway. Section 3, Chelan River Ramping Rates, reports preliminary guidance for spill operations, developed from measurements of water level response following decreases in spillway flow, which will meet ramping rate requirements once minimum flows have been initiated. Powerhouse tailrace security flows (Section 4) are not required until the enhanced salmon and steelhead spawning habitat has been constructed in the powerhouse tailrace. However, salmon and steelhead spawned in the existing gravel deposits in the powerhouse tailrace in 2007 and powerhouse flow information during the incubation period for these fish is reported in Section 4.

The Chelan River had continuous flow from spillway releases from April 16–July 30. Spill levels were managed to meet lake level requirements, prevent erosion in the Chelan River channel and to study water levels and bed load movement in preparation for construction of the enhanced fish habitat in Reach 4 of the Chelan River. Spillway flows were altered on two days to obtain preliminary information on operations that will be used to achieve ramping rate targets once minimum flows have been established in the Chelan River. Powerhouse operations during Chinook and steelhead spawning and incubation provided consistent flows, generally at or above 2,000 cfs, which should have provided good intragravel dissolved oxygen levels for survival of these fish.

¹ Federal Energy Regulatory Commission Order on Offer of Settlement and Issuing New License and Order on Rehearing for the Lake Chelan Hydroelectric Project No. 637 were issued November 6, 2006, and April 19, 2007, respectively, to the Public Utility District No. 1 of Chelan County.

SECTION 1: INTRODUCTION

The Lake Chelan Hydroelectric Project (Project) is owned and operated by the Public Utility District No. 1 of Chelan County (Chelan PUD). Chelan PUD recently received a new license (License) from the Federal Energy Regulatory Commission (FERC), authorizing Chelan PUD to operate the Lake Chelan dam and powerhouse for a period of 50 years. As part of the normal operation of the Project, Chelan PUD withdraws water from Lake Chelan for power generation and discharges that water through the powerhouse into an excavated tailrace which leads to the confluence of the Chelan River and the Columbia River. The water used for power generation is diverted from the Chelan River channel, which currently is dry except during the late spring and summer in years when inflows to Lake Chelan exceed powerhouse capacity and water must be spilled to manage lake levels. Spillway flows follow the natural channel of the Chelan River, joining with the powerhouse tailrace flows and discharging to the Columbia River.

During the public process associated with relicensing the Project, Chelan PUD held a number of meetings and negotiating sessions with representatives of state and federal resource management agencies, Native American tribes and other stakeholders to develop a plan to restore flows to the Chelan River and establish a functional aquatic ecosystem in the natural river channel. In addition, a plan to create enhanced spawning and rearing habitat for Chinook salmon and steelhead was developed for the lower reach of the Chelan River and in the powerhouse tailrace. These plans were incorporated into a settlement agreement, which was signed by state and federal land and resource management agencies and other stakeholders. The settlement agreement was incorporated into Chelan PUD's application for a new license and FERC included the plans for restoration of flows and salmon and steelhead habitat enhancement into the License.

License Article 405 required Chelan PUD to file an Operations Compliance Monitoring Plan (OCMP), which was to describe how Chelan PUD will comply with: (1) the instream flows, ramping rates, and tailrace flows as set forth in Article 7 of the Lake Chelan Settlement Agreement and Chapter 7 of the Comprehensive Plan attached to the Settlement Agreement; (2) and the lake levels as set forth in Article 8 of the Settlement Agreement and Chapter 8 of the Comprehensive Plan. License Article 408 required Chelan PUD to file a Threatened and Endangered Species Protection Plan (TESPP), which was to: (1) describe how Chelan PUD will implement provisions for timely development of a system to release water at the Lake Chelan Dam or pump water from the project powerhouse tailrace to the Chelan River, and subsequent operation of that system at rates sufficient to continuously maintain flows equal to or greater than the flows required for Chelan River Reach 4; and (2) provide for monitoring of flows in the project tailrace and in Reach 4 of the Chelan River and annual reporting of the monitoring results, as set forth in Article 7 of the Lake Chelan Settlement Agreement and Chapter 7 of the Comprehensive Plan attached to the Settlement Agreement. The OCMP and TESPP were submitted to FERC on May 4, 2007 and FERC issued an order approving the TESPP on November 28, 2007 and an order modifying and approving the OCMP on November 30, 2007. The FERC order approving the OCMP requires that Chelan PUD shall file an Annual Flow Report with the FERC Commission, beginning by February 28 of 2008. Although the flow

release structures, minimum flows and fish habitat enhancements set forth in the Lake Chelan Settlement Agreement and Comprehensive Plan were not in place during 2007, Chelan PUD is providing this first Annual Flow Report to document 2007 flow releases from the spillway, Chelan River ramping rate studies, tailrace flows, and daily average tailwater elevations.

Chelan PUD manages the level of Lake Chelan and flow releases through the powerhouse and spillway for power generation and other purposes. The operating level of Lake Chelan is maintained at full, between 1,098 – 1,100 feet above mean sea level, from July through early September to benefit recreational use of the lake. During this time period, the powerhouse is operated using inflow to the lake while maintaining lake levels. When inflows exceed the powerhouse capacity, excess water is released from the spillway into the Chelan River channel to prevent exceeding the maximum lake level. Beginning in September and extending through early spring, the flow of water released through the powerhouse for power generation usually exceeds inflows to Lake Chelan, and the lake level is drawn down to maintain power generation. The lake is refilled from April – June and, depending on the timing of snow melt and inflow levels, operation of the powerhouse may be restricted to assure that refill target elevations are met. The first Annual Lake Level Report, documenting Chelan PUD's decisions regarding operation of the powerhouse for lake level management and attainment of target lake levels during the September 2006 – August 2007 lake management Operating Cycle, was filed with FERC on November 6, 2007. This report is available at the following internet address: http://www.chelanpud.org/documents/9451_1.pdf.

This Annual Flow Report includes three sections that correspond to the flow reporting requirements of the FERC order approving the OCMP: Section 2, Chelan River instream flows; Section 3, Chelan River ramping rates; and Section 4, powerhouse tailrace security flows. Chelan PUD is in the process of completing designs and bid documents for the construction of facilities necessary to release minimum flows into the Chelan River and for the construction of the enhanced salmon and steelhead spawning and rearing habitat in Reach 4 of the Chelan River channel and the powerhouse tailrace. Until these projects have been completed, there will not be consistent flow releases into the Chelan River and there is no need for observance of flow ramping rates. Thus, in the 2007 Annual Flow Report Section 2, Chelan River Instream Flows, are limited to the documentation of flows released from the spillway, since minimum flow releases have not yet been initiated. In Section 3, Chelan River Ramping Rates, there were no ramping rates required, since fish populations will not become established in the Chelan River until after minimum flows have been maintained. However, preliminary guidance for spill operations, which will meet ramping rate requirements once minimum flows have been initiated, were developed from measurements of water level response following decreases in spillway flow. Powerhouse tailrace security flows (Section 4) are not required until the enhanced salmon and steelhead spawning habitat has been constructed in the powerhouse tailrace. However, salmon and steelhead spawned in the existing gravel deposits in the powerhouse tailrace in 2007 and powerhouse flow information during the incubation period for these fish is reported in Section 4.

SECTION 2: CHELAN RIVER INSTREAM FLOWS

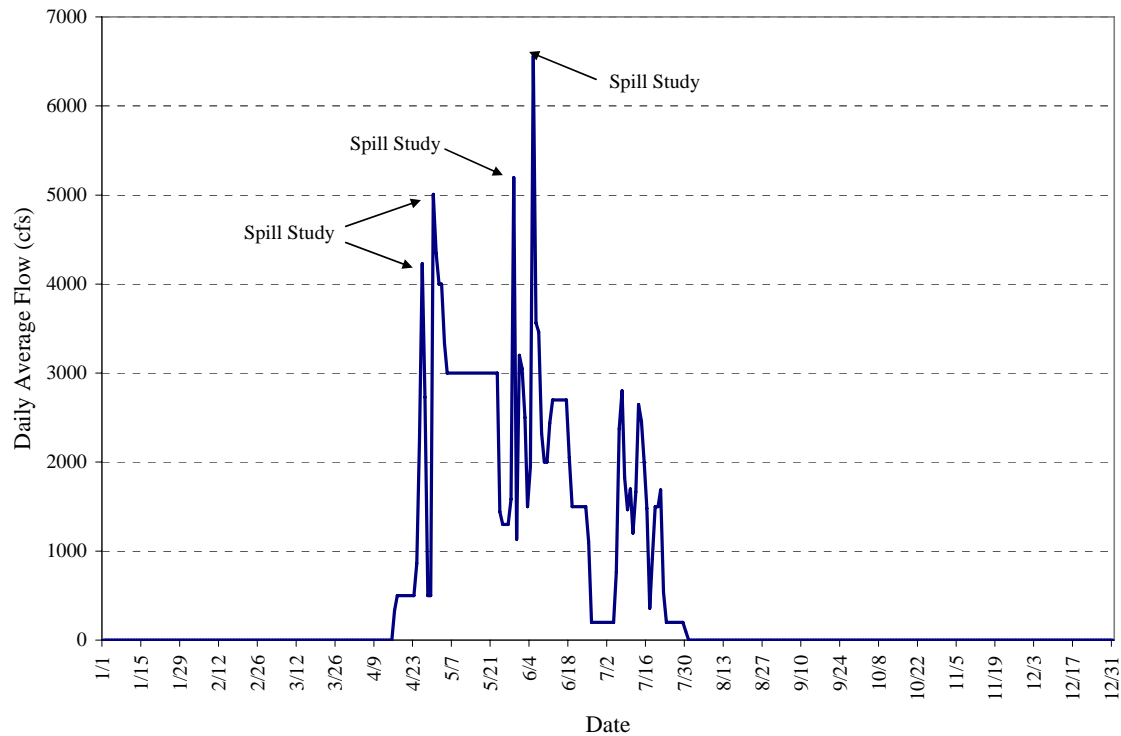
2.1 Chelan River Instream Flows

There were no flow releases for the purposes of maintaining minimum instream flows in 2007. The low level outlet, pump station and enhanced fish habitat in Reach 4 of the Chelan River are not scheduled for completion until 2009, at which time minimum flows will be initiated.

Spillway flow releases lasted over three months in 2007, beginning on April 16 and ending on July 30. Hourly spillway discharge typically ranged from 500 cfs to 4,000 cfs, as needed to manage lake levels. At the end of the spill season, spill was reduced to 200 cfs from July 22 – 30 in order to encourage any fish inhabiting Reach 4 of the Chelan River channel to migrate out into the Columbia River. When spill ended on July 30, Chelan PUD conducted a fish rescue to remove fish from the spillway stilling basin and surveys to assure that no ESA listed salmon or steelhead were trapped in the lower Chelan River. No ESA listed fish were observed in the Chelan River channel when spill ended.

Spillway discharge was increased on several occasions to study water levels and bedload movement as part of the engineering studies for construction of the enhanced salmon and steelhead rearing habitat. Water surface elevations were studied in Reach 4 of the Chelan River from April 24 – 26, with spill levels set at 2,000, 4,000 and 6,000 cfs on successive days. On April 30, spill was increased to 8,000 cfs. Spill was again increased to 8,000 cfs on May 29 and to 10,000 cfs on June 5, for additional bedload movement studies, and to 6,000 cfs on June 7 for water level ramping rate studies.

A tabulation of average daily powerhouse discharge, spill discharge and hourly lake levels and powerhouse tailwater levels are presented in Appendix A. Daily average spillway flow releases in 2007 are shown graphically in Figure 1. Hourly data is available at the following internet site: http://www.chelanpud.org/documents/9525_1.pdf.

Figure 1. Spillway Flow Releases to the Chelan River, 2007.

SECTION 3: CHELAN RIVER RAMPING RATES

3.1 Ramping Rate Studies

The change in water surface levels following decreases in spillway flows was measured in a braided section of the Chelan River channel on June 4 and June 7. Water surface levels were monitored at two locations in the braided section and at one location downstream where the river forms a narrow channel around a large bar. The braided section was chosen because it had several side channels and low gradient areas where fish may be vulnerable to stranding. The spill level was allowed to stabilize at 3,000 cfs for three hours on June 4, and then decreased in 500 cfs increments. Water levels were measured with staff gauges at 3,000 cfs and when water levels stabilized at flows of 2,500, 2,000, 1,500, 1,000, 500, 325 and 80 cfs. On June 7, the spill level was set at 6,000 cfs, and then decreased in 1,000 cfs increments. Water levels, once stabilized, were measured at 6,000, 5,000, 4,000, 3,000, 2,000, 1,000 and 500 cfs. These data were used to develop preliminary guidance for spill operations in order to meet a two inches per hour ramping rate for decreases in spillway flows, once minimum flows and fish populations have been established in the Chelan River. Further refinement of operational guidance and ramping rates will be developed once the enhanced salmon and steelhead habitat has been constructed in Reach 4 of the Chelan River. The preliminary guidance for spill operations, to be implemented after minimum flows have been initiated, is shown in Table 1.

Table 1. Preliminary Chelan River Ramping Rates

Chelan River Ramping Rates Preliminary - Reaches 1 - 3			
Starting Flow (cfs)	Max. Flow Reduction/hour	Inches Drop	
		Wide Channel	Narrow Channel
6,000	500	1.40	1.30
5,500	500	1.40	1.30
5,000	300	1.50	1.40
4,700	300	1.50	1.30
4,400	400	1.50	1.30
4,000	300	1.40	1.90
3,700	300	1.30	1.90
3,400	400	1.30	1.70
3,000	500	1.00	1.80
2,500	500	1.00	1.70
2,000	250	0.75	2.00
1,750	250	0.75	2.00
1,500	250	0.75	2.00
1,250	250	0.75	2.00
1,000	250	1.00	>2.0
750	250	1.00	>2.0
500	250	1.50	>2.0
250	170	1.50	>2.0
80	-	-	-

SECTION 4: POWERHOUSE TAILRACE SECURITY FLOWS

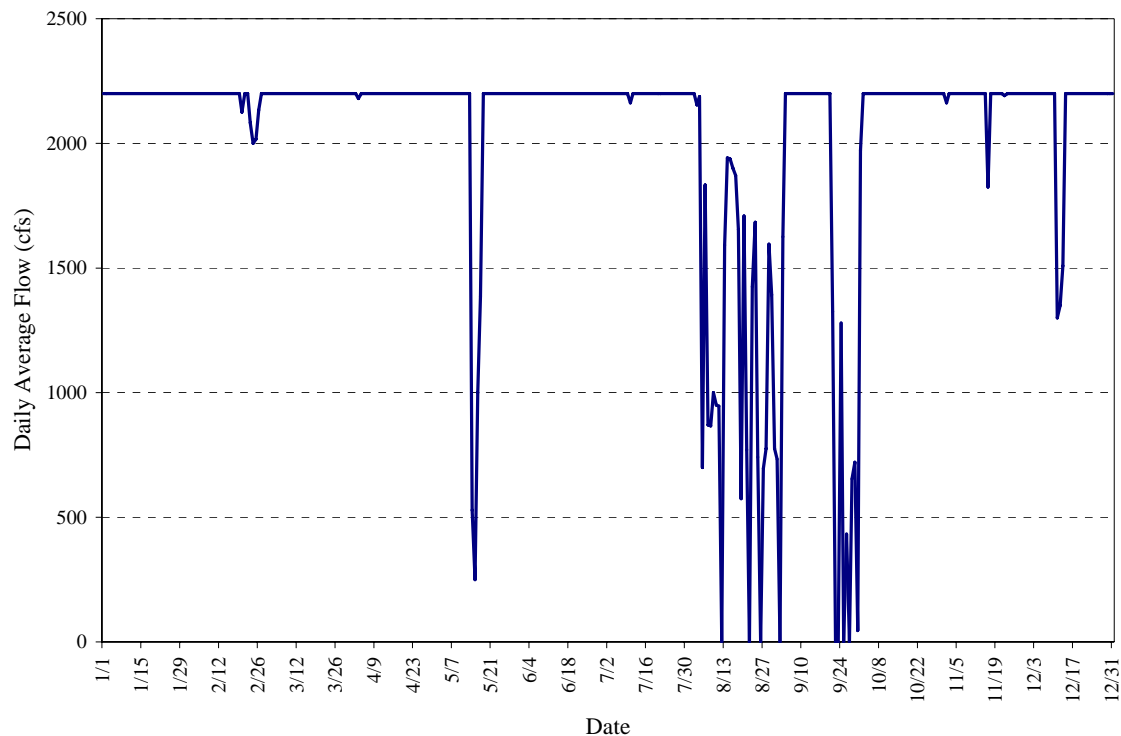
4.1 Powerhouse Operations

Powerhouse tailrace security flows are not required until the enhanced salmon and steelhead spawning habitat has been constructed in the tailrace. However, Chinook salmon and steelhead were observed spawning on existing gravel deposits at the mouth of the Chelan River where it converges with the tailrace. Chinook spawning took place from mid October through about mid November of 2006, while steelhead were observed spawning in late March of 2007. The timing of Chinook salmon and steelhead egg incubation and date when the fry emerge from the gravel can be estimated from water temperatures during the incubation process. Based on average water temperatures for the Chelan River at the Chelan Dam and powerhouse, the emergence of Chinook salmon from eggs deposited in 2006 would have occurred by mid April and the emergence of steelhead spawning before March 30, 2007 would take place around May 20. Chinook and coho salmon were observed spawning in the same area from mid October through late November of 2007. Incubation of these eggs is in progress.

Powerhouse operation in 2007 provided constant flow throughout the incubation period for salmon and, for steelhead, up to the timing of emergence. Powerhouse tailrace flows were

constantly at or above 2,000 cfs from January 1 – May 13. On May 14, the powerhouse was shut down for maintenance for 35 hours, then operation resumed with one turbine at 1,000 cfs from May 15 – 17. This powerhouse outage likely coincided with steelhead emergence, but was of short duration and unlikely to have resulted in any loss of steelhead fry due to oxygen deficiency. Studies of powerhouse outages of up to three days were conducted in 2003 and intragravel dissolved oxygen levels remained above 6.0 mg/l in most of the redds sampled (BioAnalysts 2003)². Operation with two turbines at flows of 2,000 cfs or greater then resumed and continued until the first week of August. Powerhouse flows were constantly at or above 2,000 cfs from the first of October through December 31, with the exception of some brief periods of operations with one turbine at or above 800 cfs in November and December. Powerhouse daily average flows in 2007 are shown in Figure 2.

Figure 2. Chelan Powerhouse Daily Average Flows, 2007.

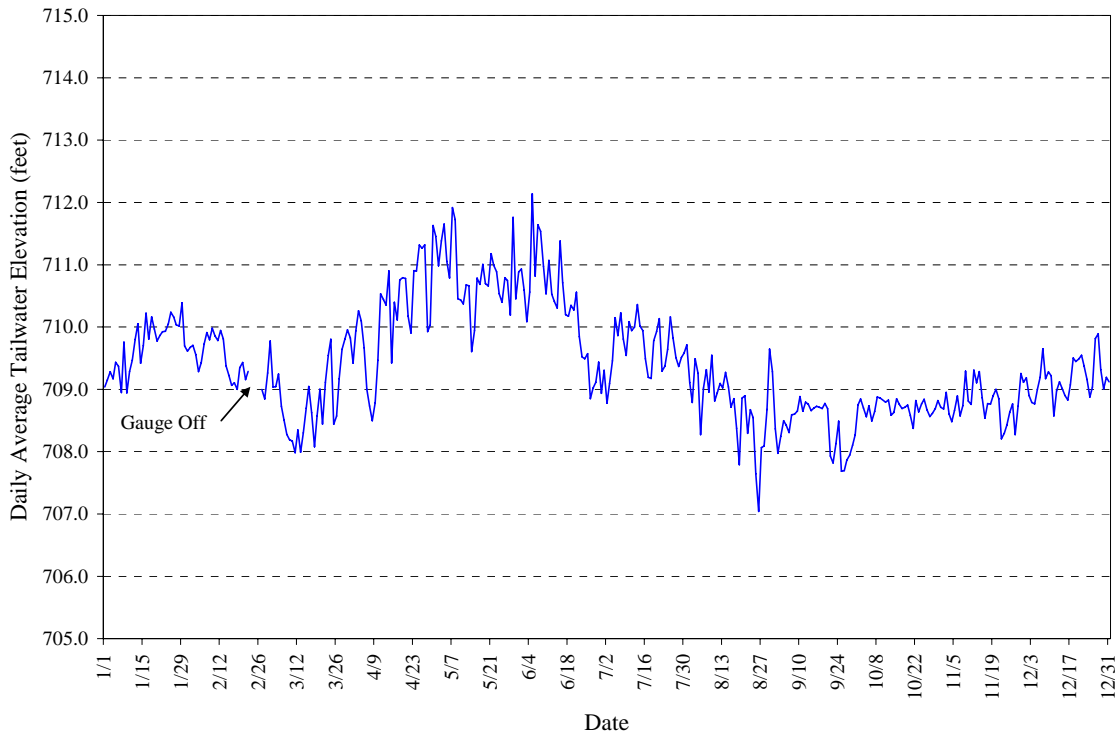


Water surface elevations in the tailrace can fluctuate by several feet over the course of a day due to changes in Columbia River flows that affect the backwater curve of the Rocky Reach reservoir. The water level fluctuations in the tailrace are somewhat reduced when the Chelan Powerhouse is operating. In past years, temporary dewatering of a few Chinook redds in shallow areas has been observed when the powerhouse was not operating and Columbia River flows were low. Since the powerhouse operated throughout the incubation period for salmon and steelhead

² BioAnalysts. 2003. Effects of powerhouse operations on intragravel flows and water quality within Chinook redds. Prepared by BioAnalysts, Inc., Redmond, Washington, for Chelan PUD. June 2003. http://www.chelanpud.org/relicense/study/reports/8106_1.pdf.

eggs, the water levels in the tailrace were relatively stable in 2007. The daily average tailwater levels measured at the powerhouse are shown in Figure 3.

Figure 3. Chelan Powerhouse Daily Average Tailwater Elevations, 2007.



SECTION 5: SUMMARY

Chelan River minimum instream flows were not in effect during 2007 since the construction work necessary to implement these flows has not yet occurred. The Chelan River did have continuous flow from spillway releases from April 16 – July 30. Spill levels were managed to meet lake level requirements, prevent erosion in the Chelan River channel and to study water levels and bed load movement in preparation for construction of the enhanced fish habitat in Reach 4 of the Chelan River. Spillway flows were altered on two days to obtain preliminary information on operations that will be used to achieve ramping rate targets once minimum flows have been established in the Chelan River. Powerhouse operations during Chinook and steelhead spawning and incubation provided consistent flows, generally at or above 2,000 cfs, which should have provided good intragravel dissolved oxygen levels for survival of these fish.

***APPENDIX A: DAILY AVERAGE LAKE CHELAN ELEVATIONS,
POWERHOUSE FLOWS AND TAILWATER ELEVATIONS AND
CHELAN RIVER FLOWS FROM SPILL, LOW LEVEL OUTLET AND
PUMPING STATION***

Date	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spill Flow (cfs)	Chelan River Flow Reaches 1-3 (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
01/01/07	1094.1	2200	709.0	NA	0	0	NA	0
01/02/07	1094.1	2200	709.2	NA	0	0	NA	0
01/03/07	1094.1	2200	709.3	NA	0	0	NA	0
01/04/07	1094.0	2200	709.2	NA	0	0	NA	0
01/05/07	1094.0	2200	709.4	NA	0	0	NA	0
01/06/07	1094.0	2200	709.4	NA	0	0	NA	0
01/07/07	1093.9	2200	709.0	NA	0	0	NA	0
01/08/07	1093.9	2200	709.8	NA	0	0	NA	0
01/09/07	1093.9	2200	708.9	NA	0	0	NA	0
01/10/07	1093.9	2200	709.3	NA	0	0	NA	0
01/11/07	1093.7	2200	709.5	NA	0	0	NA	0
01/12/07	1093.6	2200	709.8	NA	0	0	NA	0
01/13/07	1093.5	2200	710.1	NA	0	0	NA	0
01/14/07	1093.4	2200	709.4	NA	0	0	NA	0
01/15/07	1093.3	2200	709.7	NA	0	0	NA	0
01/16/07	1093.2	2200	710.2	NA	0	0	NA	0
01/17/07	1093.1	2200	709.8	NA	0	0	NA	0
01/18/07	1093.0	2200	710.2	NA	0	0	NA	0
01/19/07	1092.9	2200	710.0	NA	0	0	NA	0
01/20/07	1092.9	2200	709.8	NA	0	0	NA	0
01/21/07	1092.8	2200	709.9	NA	0	0	NA	0
01/22/07	1092.7	2200	709.9	NA	0	0	NA	0
01/23/07	1092.6	2200	709.9	NA	0	0	NA	0
01/24/07	1092.5	2200	710.0	NA	0	0	NA	0
01/25/07	1092.4	2200	710.2	NA	0	0	NA	0
01/26/07	1092.3	2200	710.2	NA	0	0	NA	0
01/27/07	1092.2	2200	710.0	NA	0	0	NA	0
01/28/07	1092.1	2200	710.0	NA	0	0	NA	0
01/29/07	1092.0	2200	710.4	NA	0	0	NA	0
01/30/07	1092.0	2200	709.7	NA	0	0	NA	0
01/31/07	1091.8	2200	709.6	NA	0	0	NA	0
02/01/07	1091.8	2200	709.7	NA	0	0	NA	0
02/02/07	1091.7	2200	709.7	NA	0	0	NA	0
02/03/07	1091.6	2200	709.6	NA	0	0	NA	0
02/04/07	1091.5	2200	709.3	NA	0	0	NA	0
02/05/07	1091.4	2200	709.4	NA	0	0	NA	0
02/06/07	1091.3	2200	709.7	NA	0	0	NA	0
02/07/07	1091.2	2200	709.9	NA	0	0	NA	0
02/08/07	1091.1	2200	709.8	NA	0	0	NA	0
02/09/07	1091.0	2200	710.0	NA	0	0	NA	0
02/10/07	1091.0	2200	709.9	NA	0	0	NA	0
02/11/07	1090.9	2200	709.8	NA	0	0	NA	0
02/12/07	1090.8	2200	709.9	NA	0	0	NA	0
02/13/07	1090.7	2200	709.8	NA	0	0	NA	0
02/14/07	1090.7	2200	709.4	NA	0	0	NA	0
02/15/07	1090.6	2200	709.2	NA	0	0	NA	0
02/16/07	1090.6	2200	709.1	NA	0	0	NA	0
02/17/07	1090.5	2200	709.1	NA	0	0	NA	0
02/18/07	1090.5	2200	709.0	NA	0	0	NA	0
02/19/07	1090.4	2200	709.4	NA	0	0	NA	0

Date	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spill Flow (cfs)	Chelan River Flow Reaches 1-3 (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
02/20/07	1090.4	2125	709.4	NA	0	0	NA	0
02/21/07	1090.2	2200	709.2	NA	0	0	NA	0
02/22/07	1090.1	2200	709.3	NA	0	0	NA	0
02/23/07	1090.1	2083	NA	NA	0	0	NA	0
02/24/07	1090.0	2000	NA	NA	0	0	NA	0
02/25/07	1090.0	2017	NA	NA	0	0	NA	0
02/26/07	1089.9	2133	NA	NA	0	0	NA	0
02/27/07	1089.9	2200	709.0	NA	0	0	NA	0
02/28/07	1089.8	2200	708.8	NA	0	0	NA	0
03/01/07	1089.7	2200	709.3	NA	0	0	NA	0
03/02/07	1089.6	2200	709.8	NA	0	0	NA	0
03/03/07	1089.5	2200	709.0	NA	0	0	NA	0
03/04/07	1089.5	2200	709.0	NA	0	0	NA	0
03/05/07	1089.4	2200	709.2	NA	0	0	NA	0
03/06/07	1089.3	2200	708.7	NA	0	0	NA	0
03/07/07	1089.2	2200	708.5	NA	0	0	NA	0
03/08/07	1089.1	2200	708.3	NA	0	0	NA	0
03/09/07	1089.1	2200	708.2	NA	0	0	NA	0
03/10/07	1089.0	2200	708.2	NA	0	0	NA	0
03/11/07	1089.0	2200	708.0	NA	0	0	NA	0
03/12/07	1089.0	2200	708.3	NA	0	0	NA	0
03/13/07	1089.2	2200	708.0	NA	0	0	NA	0
03/14/07	1089.4	2200	708.3	NA	0	0	NA	0
03/15/07	1089.5	2200	708.7	NA	0	0	NA	0
03/16/07	1089.5	2200	709.0	NA	0	0	NA	0
03/17/07	1089.6	2200	708.6	NA	0	0	NA	0
03/18/07	1089.6	2200	708.1	NA	0	0	NA	0
03/19/07	1089.8	2200	708.6	NA	0	0	NA	0
03/20/07	1089.9	2200	709.0	NA	0	0	NA	0
03/21/07	1090.0	2200	708.4	NA	0	0	NA	0
03/22/07	1090.0	2200	709.1	NA	0	0	NA	0
03/23/07	1090.1	2200	709.5	NA	0	0	NA	0
03/24/07	1090.3	2200	709.8	NA	0	0	NA	0
03/25/07	1090.6	2200	708.4	NA	0	0	NA	0
03/26/07	1090.8	2200	708.6	NA	0	0	NA	0
03/27/07	1091.0	2200	709.2	NA	0	0	NA	0
03/28/07	1091.1	2200	709.6	NA	0	0	NA	0
03/29/07	1091.1	2200	709.8	NA	0	0	NA	0
03/30/07	1091.2	2200	710.0	NA	0	0	NA	0
03/31/07	1091.3	2200	709.8	NA	0	0	NA	0
04/01/07	1091.4	2200	709.4	NA	0	0	NA	0
04/02/07	1091.4	2200	709.9	NA	0	0	NA	0
04/03/07	1091.4	2179	710.3	NA	0	0	NA	0
04/04/07	1091.5	2200	710.1	NA	0	0	NA	0
04/05/07	1091.5	2200	709.7	NA	0	0	NA	0
04/06/07	1091.5	2200	709.0	NA	0	0	NA	0
04/07/07	1091.6	2200	708.7	NA	0	0	NA	0
04/08/07	1091.6	2200	708.5	NA	0	0	NA	0
04/09/07	1091.8	2200	708.8	NA	0	0	NA	0
04/10/07	1092.0	2200	709.5	NA	0	0	NA	0

Date	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spill Flow (cfs)	Chelan River Flow Reaches 1-3 (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
04/11/07	1092.1	2200	710.5	NA	0	0	NA	0
04/12/07	1092.2	2200	710.4	NA	0	0	NA	0
04/13/07	1092.3	2200	710.4	NA	0	0	NA	0
04/14/07	1092.4	2200	710.9	NA	0	0	NA	0
04/15/07	1092.4	2200	709.4	NA	0	0	NA	0
04/16/07	1092.5	2200	710.4	NA	333	333	NA	333
04/17/07	1092.5	2200	710.1	NA	500	500	NA	500
04/18/07	1092.5	2200	710.8	NA	500	500	NA	500
04/19/07	1092.5	2200	710.8	NA	500	500	NA	500
04/20/07	1092.5	2200	710.8	NA	500	500	NA	500
04/21/07	1092.5	2200	710.2	NA	500	500	NA	500
04/22/07	1092.5	2200	709.9	NA	500	500	NA	500
04/23/07	1092.5	2200	710.9	NA	500	500	NA	500
04/24/07	1092.5	2200	710.9	NA	863	863	NA	863
04/25/07	1092.5	2200	711.3	NA	2271	2271	NA	2271
04/26/07	1092.4	2200	711.3	NA	4229	4229	NA	4229
04/27/07	1092.3	2200	711.3	NA	2729	2729	NA	2729
04/28/07	1092.3	2200	709.9	NA	500	500	NA	500
04/29/07	1092.4	2200	710.0	NA	500	500	NA	500
04/30/07	1092.4	2200	711.6	NA	5008	5008	NA	5008
05/01/07	1092.3	2200	711.5	NA	4346	4346	NA	4346
05/02/07	1092.1	2200	711.0	NA	4000	4000	NA	4000
05/03/07	1092.1	2200	711.4	NA	4000	4000	NA	4000
05/04/07	1092.0	2200	711.7	NA	3333	3333	NA	3333
05/05/07	1091.9	2200	711.1	NA	3000	3000	NA	3000
05/06/07	1091.8	2200	710.8	NA	3000	3000	NA	3000
05/07/07	1091.7	2200	711.9	NA	3000	3000	NA	3000
05/08/07	1091.7	2200	711.7	NA	3000	3000	NA	3000
05/09/07	1091.8	2200	710.5	NA	3000	3000	NA	3000
05/10/07	1091.9	2200	710.4	NA	3000	3000	NA	3000
05/11/07	1092.0	2200	710.4	NA	3000	3000	NA	3000
05/12/07	1092.1	2200	710.7	NA	3000	3000	NA	3000
05/13/07	1092.3	2200	710.7	NA	3000	3000	NA	3000
05/14/07	1092.4	529	709.6	NA	3000	3000	NA	3000
05/15/07	1092.6	250	709.9	NA	3000	3000	NA	3000
05/16/07	1092.8	1000	710.8	NA	3000	3000	NA	3000
05/17/07	1093.1	1388	710.7	NA	3000	3000	NA	3000
05/18/07	1093.3	2200	711.0	NA	3000	3000	NA	3000
05/19/07	1093.4	2200	710.7	NA	3000	3000	NA	3000
05/20/07	1093.5	2200	710.7	NA	3000	3000	NA	3000
05/21/07	1093.7	2200	711.2	NA	3000	3000	NA	3000
05/22/07	1093.7	2200	711.0	NA	3000	3000	NA	3000
05/23/07	1093.7	2200	710.9	NA	3000	3000	NA	3000
05/24/07	1093.8	2200	710.5	NA	1442	1442	NA	1442
05/25/07	1093.9	2200	710.4	NA	1300	1300	NA	1300
05/26/07	1094.1	2200	710.8	NA	1300	1300	NA	1300
05/27/07	1094.4	2200	710.7	NA	1300	1300	NA	1300
05/28/07	1094.6	2200	710.2	NA	1583	1583	NA	1583
05/29/07	1094.6	2200	711.8	NA	5196	5196	NA	5196
05/30/07	1094.7	2200	710.5	NA	1133	1133	NA	1133

Date	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spill Flow (cfs)	Chelan River Flow Reaches 1-3 (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
05/31/07	1094.9	2200	710.9	NA	3200	3200	NA	3200
06/01/07	1095.2	2200	710.9	NA	3050	3050	NA	3050
06/02/07	1095.5	2200	710.6	NA	2500	2500	NA	2500
06/03/07	1096.0	2200	710.1	NA	1500	1500	NA	1500
06/04/07	1096.7	2200	710.6	NA	1950	1950	NA	1950
06/05/07	1097.2	2200	712.1	NA	6563	6563	NA	6563
06/06/07	1097.4	2200	710.8	NA	3563	3563	NA	3563
06/07/07	1097.4	2200	711.6	NA	3463	3463	NA	3463
06/08/07	1097.4	2200	711.5	NA	2325	2325	NA	2325
06/09/07	1097.5	2200	711.0	NA	2000	2000	NA	2000
06/10/07	1097.7	2200	710.5	NA	2000	2000	NA	2000
06/11/07	1097.8	2200	711.1	NA	2438	2438	NA	2438
06/12/07	1097.8	2200	710.5	NA	2700	2700	NA	2700
06/13/07	1097.8	2200	710.4	NA	2700	2700	NA	2700
06/14/07	1097.8	2200	710.3	NA	2700	2700	NA	2700
06/15/07	1097.8	2200	711.4	NA	2700	2700	NA	2700
06/16/07	1097.8	2200	710.7	NA	2700	2700	NA	2700
06/17/07	1097.8	2200	710.2	NA	2700	2700	NA	2700
06/18/07	1097.8	2200	710.2	NA	2050	2050	NA	2050
06/19/07	1097.8	2200	710.3	NA	1500	1500	NA	1500
06/20/07	1097.8	2200	710.3	NA	1500	1500	NA	1500
06/21/07	1097.9	2200	710.6	NA	1500	1500	NA	1500
06/22/07	1098.1	2200	709.8	NA	1500	1500	NA	1500
06/23/07	1098.2	2200	709.5	NA	1500	1500	NA	1500
06/24/07	1098.2	2200	709.5	NA	1500	1500	NA	1500
06/25/07	1098.3	2200	709.6	NA	1104	1104	NA	1104
06/26/07	1098.3	2200	708.9	NA	200	200	NA	200
06/27/07	1098.4	2200	709.0	NA	200	200	NA	200
06/28/07	1098.5	2200	709.1	NA	200	200	NA	200
06/29/07	1098.6	2200	709.4	NA	200	200	NA	200
06/30/07	1098.7	2200	708.9	NA	200	200	NA	200
07/01/07	1098.8	2200	709.3	NA	200	200	NA	200
07/02/07	1099.0	2200	708.8	NA	200	200	NA	200
07/03/07	1099.1	2200	709.1	NA	200	200	NA	200
07/04/07	1099.3	2200	709.5	NA	200	200	NA	200
07/05/07	1099.4	2200	710.2	NA	767	767	NA	767
07/06/07	1099.6	2200	709.9	NA	2375	2375	NA	2375
07/07/07	1099.6	2200	710.2	NA	2800	2800	NA	2800
07/08/07	1099.6	2200	709.8	NA	1825	1825	NA	1825
07/09/07	1099.6	2200	709.5	NA	1467	1467	NA	1467
07/10/07	1099.6	2163	710.1	NA	1700	1700	NA	1700
07/11/07	1099.7	2200	709.9	NA	1204	1204	NA	1204
07/12/07	1099.8	2200	710.0	NA	1667	1667	NA	1667
07/13/07	1099.8	2200	710.4	NA	2646	2646	NA	2646
07/14/07	1099.8	2200	710.0	NA	2458	2458	NA	2458
07/15/07	1099.9	2200	709.9	NA	2000	2000	NA	2000
07/16/07	1099.9	2200	709.5	NA	1479	1479	NA	1479
07/17/07	1099.9	2200	709.2	NA	358	358	NA	358
07/18/07	1099.9	2200	709.2	NA	913	913	NA	913
07/19/07	1100.0	2200	709.8	NA	1500	1500	NA	1500

Date	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spill Flow (cfs)	Chelan River Flow Reaches 1-3 (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
07/20/07	1100.0	2200	709.9	NA	1500	1500	NA	1500
07/21/07	1099.9	2200	710.1	NA	1688	1688	NA	1688
07/22/07	1099.9	2200	709.3	NA	538	538	NA	538
07/23/07	1099.9	2200	709.4	NA	200	200	NA	200
07/24/07	1099.9	2200	709.6	NA	200	200	NA	200
07/25/07	1099.9	2200	710.2	NA	200	200	NA	200
07/26/07	1099.9	2200	709.8	NA	200	200	NA	200
07/27/07	1099.9	2200	709.5	NA	200	200	NA	200
07/28/07	1099.9	2200	709.4	NA	200	200	NA	200
07/29/07	1099.9	2200	709.5	NA	200	200	NA	200
07/30/07	1099.9	2200	709.6	NA	100	100	NA	100
07/31/07	1099.8	2200	709.7	NA	0	0	NA	0
08/01/07	1099.7	2200	709.1	NA	0	0	NA	0
08/02/07	1099.7	2200	708.8	NA	0	0	NA	0
08/03/07	1099.7	2154	709.5	NA	0	0	NA	0
08/04/07	1099.6	2188	709.3	NA	0	0	NA	0
08/05/07	1099.6	700	708.3	NA	0	0	NA	0
08/06/07	1099.6	1833	709.0	NA	0	0	NA	0
08/07/07	1099.6	871	709.3	NA	0	0	NA	0
08/08/07	1099.6	867	709.0	NA	0	0	NA	0
08/09/07	1099.6	1000	709.6	NA	0	0	NA	0
08/10/07	1099.6	950	708.8	NA	0	0	NA	0
08/11/07	1099.6	946	708.9	NA	0	0	NA	0
08/12/07	1099.7	0	709.1	NA	0	0	NA	0
08/13/07	1099.7	1592	709.0	NA	0	0	NA	0
08/14/07	1099.6	1942	709.3	NA	0	0	NA	0
08/15/07	1099.5	1938	709.0	NA	0	0	NA	0
08/16/07	1099.5	1900	708.7	NA	0	0	NA	0
08/17/07	1099.5	1871	708.9	NA	0	0	NA	0
08/18/07	1099.4	1654	708.4	NA	0	0	NA	0
08/19/07	1099.4	575	707.8	NA	0	0	NA	0
08/20/07	1099.4	1708	708.9	NA	0	0	NA	0
08/21/07	1099.3	771	708.9	NA	0	0	NA	0
08/22/07	1099.4	0	708.3	NA	0	0	NA	0
08/23/07	1099.4	1425	708.7	NA	0	0	NA	0
08/24/07	1099.3	1683	708.5	NA	0	0	NA	0
08/25/07	1099.3	742	707.6	NA	0	0	NA	0
08/26/07	1099.4	0	707.0	NA	0	0	NA	0
08/27/07	1099.4	696	708.1	NA	0	0	NA	0
08/28/07	1099.3	775	708.1	NA	0	0	NA	0
08/29/07	1099.3	1596	708.7	NA	0	0	NA	0
08/30/07	1099.2	1392	709.6	NA	0	0	NA	0
08/31/07	1099.2	775	709.3	NA	0	0	NA	0
09/01/07	1099.2	733	708.4	NA	0	0	NA	0
09/02/07	1099.2	0	708.0	NA	0	0	NA	0
09/03/07	1099.2	1625	708.2	NA	0	0	NA	0
09/04/07	1099.2	2200	708.5	NA	0	0	NA	0
09/05/07	1099.1	2200	708.4	NA	0	0	NA	0
09/06/07	1099.0	2200	708.3	NA	0	0	NA	0
09/07/07	1098.9	2200	708.6	NA	0	0	NA	0

Date	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spill Flow (cfs)	Chelan River Flow Reaches 1-3 (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
09/08/07	1098.8	2200	708.6	NA	0	0	NA	0
09/09/07	1098.6	2200	708.7	NA	0	0	NA	0
09/10/07	1098.5	2200	708.9	NA	0	0	NA	0
09/11/07	1098.4	2200	708.6	NA	0	0	NA	0
09/12/07	1098.3	2200	708.8	NA	0	0	NA	0
09/13/07	1098.2	2200	708.8	NA	0	0	NA	0
09/14/07	1098.1	2200	708.7	NA	0	0	NA	0
09/15/07	1098.0	2200	708.7	NA	0	0	NA	0
09/16/07	1098.0	2200	708.7	NA	0	0	NA	0
09/17/07	1097.8	2200	708.7	NA	0	0	NA	0
09/18/07	1097.7	2200	708.7	NA	0	0	NA	0
09/19/07	1097.6	2200	708.8	NA	0	0	NA	0
09/20/07	1097.5	2200	708.7	NA	0	0	NA	0
09/21/07	1097.4	1325	707.9	NA	0	0	NA	0
09/22/07	1097.4	0	707.8	NA	0	0	NA	0
09/23/07	1097.4	0	708.1	NA	0	0	NA	0
09/24/07	1097.3	1279	708.5	NA	0	0	NA	0
09/25/07	1097.3	0	707.7	NA	0	0	NA	0
09/26/07	1097.3	433	707.7	NA	0	0	NA	0
09/27/07	1097.3	0	707.9	NA	0	0	NA	0
09/28/07	1097.3	654	707.9	NA	0	0	NA	0
09/29/07	1097.3	721	708.1	NA	0	0	NA	0
09/30/07	1097.2	46	708.3	NA	0	0	NA	0
10/01/07	1097.2	1971	708.8	NA	0	0	NA	0
10/02/07	1097.2	2200	708.8	NA	0	0	NA	0
10/03/07	1097.1	2200	708.7	NA	0	0	NA	0
10/04/07	1097.0	2200	708.6	NA	0	0	NA	0
10/05/07	1096.9	2200	708.7	NA	0	0	NA	0
10/06/07	1096.8	2200	708.5	NA	0	0	NA	0
10/07/07	1096.7	2200	708.6	NA	0	0	NA	0
10/08/07	1096.6	2200	708.9	NA	0	0	NA	0
10/09/07	1096.5	2200	708.9	NA	0	0	NA	0
10/10/07	1096.4	2200	708.8	NA	0	0	NA	0
10/11/07	1096.3	2200	708.8	NA	0	0	NA	0
10/12/07	1096.2	2200	708.8	NA	0	0	NA	0
10/13/07	1096.1	2200	708.6	NA	0	0	NA	0
10/14/07	1096.0	2200	708.6	NA	0	0	NA	0
10/15/07	1095.9	2200	708.9	NA	0	0	NA	0
10/16/07	1095.8	2200	708.8	NA	0	0	NA	0
10/17/07	1095.7	2200	708.7	NA	0	0	NA	0
10/18/07	1095.6	2200	708.7	NA	0	0	NA	0
10/19/07	1095.6	2200	708.7	NA	0	0	NA	0
10/20/07	1095.5	2200	708.6	NA	0	0	NA	0
10/21/07	1095.4	2200	708.4	NA	0	0	NA	0
10/22/07	1095.3	2200	708.8	NA	0	0	NA	0
10/23/07	1095.2	2200	708.6	NA	0	0	NA	0
10/24/07	1095.2	2200	708.8	NA	0	0	NA	0
10/25/07	1095.2	2200	708.8	NA	0	0	NA	0
10/26/07	1095.1	2200	708.7	NA	0	0	NA	0
10/27/07	1095.0	2200	708.6	NA	0	0	NA	0

Date	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spill Flow (cfs)	Chelan River Flow Reaches 1-3 (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
10/28/07	1094.9	2200	708.6	NA	0	0	NA	0
10/29/07	1094.9	2200	708.7	NA	0	0	NA	0
10/30/07	1094.8	2200	708.8	NA	0	0	NA	0
10/31/07	1094.7	2200	708.7	NA	0	0	NA	0
11/01/07	1094.6	2163	708.7	NA	0	0	NA	0
11/02/07	1094.5	2200	709.0	NA	0	0	NA	0
11/03/07	1094.4	2200	708.6	NA	0	0	NA	0
11/04/07	1094.3	2200	708.5	NA	0	0	NA	0
11/05/07	1094.2	2200	708.7	NA	0	0	NA	0
11/06/07	1094.1	2200	708.9	NA	0	0	NA	0
11/07/07	1094.0	2200	708.6	NA	0	0	NA	0
11/08/07	1093.9	2200	708.7	NA	0	0	NA	0
11/09/07	1093.8	2200	709.3	NA	0	0	NA	0
11/10/07	1093.8	2200	708.8	NA	0	0	NA	0
11/11/07	1093.7	2200	708.8	NA	0	0	NA	0
11/12/07	1093.6	2200	709.3	NA	0	0	NA	0
11/13/07	1093.5	2200	709.1	NA	0	0	NA	0
11/14/07	1093.4	2200	709.3	NA	0	0	NA	0
11/15/07	1093.3	2200	708.9	NA	0	0	NA	0
11/16/07	1093.3	1825	708.5	NA	0	0	NA	0
11/17/07	1093.2	2200	708.8	NA	0	0	NA	0
11/18/07	1093.1	2200	708.8	NA	0	0	NA	0
11/19/07	1093.0	2200	708.9	NA	0	0	NA	0
11/20/07	1092.9	2200	709.0	NA	0	0	NA	0
11/21/07	1092.8	2200	708.9	NA	0	0	NA	0
11/22/07	1092.7	2192	708.2	NA	0	0	NA	0
11/23/07	1092.6	2200	708.3	NA	0	0	NA	0
11/24/07	1092.5	2200	708.4	NA	0	0	NA	0
11/25/07	1092.4	2200	708.6	NA	0	0	NA	0
11/26/07	1092.3	2200	708.8	NA	0	0	NA	0
11/27/07	1092.2	2200	708.3	NA	0	0	NA	0
11/28/07	1092.1	2200	708.7	NA	0	0	NA	0
11/29/07	1092.0	2200	709.3	NA	0	0	NA	0
11/30/07	1091.9	2200	709.1	NA	0	0	NA	0
12/01/07	1091.7	2200	709.2	NA	0	0	NA	0
12/02/07	1091.7	2200	708.9	NA	0	0	NA	0
12/03/07	1091.8	2200	708.8	NA	0	0	NA	0
12/04/07	1091.9	2200	708.8	NA	0	0	NA	0
12/05/07	1091.9	2200	709.0	NA	0	0	NA	0
12/06/07	1091.8	2200	709.2	NA	0	0	NA	0
12/07/07	1091.8	2200	709.7	NA	0	0	NA	0
12/08/07	1091.7	2200	709.2	NA	0	0	NA	0
12/09/07	1091.6	2200	709.3	NA	0	0	NA	0
12/10/07	1091.6	2200	709.2	NA	0	0	NA	0
12/11/07	1091.5	1300	708.6	NA	0	0	NA	0
12/12/07	1091.5	1350	709.0	NA	0	0	NA	0
12/13/07	1091.4	1508	709.1	NA	0	0	NA	0
12/14/07	1091.4	2200	709.0	NA	0	0	NA	0
12/15/07	1091.3	2200	708.9	NA	0	0	NA	0
12/16/07	1091.2	2200	708.8	NA	0	0	NA	0

Date	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spill Flow (cfs)	Chelan River Flow Reaches 1-3 (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
12/17/07	1091.1	2200	709.1	NA	0	0	NA	0
12/18/07	1091.0	2200	709.5	NA	0	0	NA	0
12/19/07	1091.0	2200	709.4	NA	0	0	NA	0
12/20/07	1090.9	2200	709.5	NA	0	0	NA	0
12/21/07	1090.8	2200	709.5	NA	0	0	NA	0
12/22/07	1090.7	2200	709.4	NA	0	0	NA	0
12/23/07	1090.6	2200	709.2	NA	0	0	NA	0
12/24/07	1090.6	2200	708.9	NA	0	0	NA	0
12/25/07	1090.5	2200	709.0	NA	0	0	NA	0
12/26/07	1090.4	2200	709.8	NA	0	0	NA	0
12/27/07	1090.3	2200	709.9	NA	0	0	NA	0
12/28/07	1090.2	2200	709.3	NA	0	0	NA	0
12/29/07	1090.1	2200	709.0	NA	0	0	NA	0
12/30/07	1090.1	2200	709.2	NA	0	0	NA	0
12/31/07	1090.0	2200	709.1	NA	0	0	NA	0