

PUBLIC UTILITY DISTRICT NO. 1 of CHELAN COUNTY
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November 6, 2007

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. 637-022**
Article 405b – 2007 Annual Lake Level Report dated November 6, 2007

Dear Secretary Bose:

The Federal Energy Regulatory Commission (Commission) issued 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. License Article 405 required the Public Utility District No. 1 of Chelan County, Washington (Chelan PUD or Licensee), to file an Operations Compliance and Monitoring Plan on May 4, 2007, which is pending Commission approval. Under subsection (b) of Article 405, Chelan PUD is required to file the following report for Commission approval.

- Article 405(b): *Annual Lake Level Report.*

...the Licensee shall file with the Commission, for approval, an Operations Compliance Monitoring Plan that describes how the licensee will comply with...the lake levels as set forth in Article 8 of the Settlement Agreement and Chapter 8 of the Comprehensive Plan...

(b) a provision to file with the Commission within one year of the issuance date of the license, and annually thereafter, a report comparing monthly actual and target lake levels; and runoff volume forecasts and other factors influencing achievement of targeted lake levels...

¹ 117 FERC ¶ 62,129

² 119 FERC ¶ 61,055

*Ms. Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission*

In accordance with the above License requirement, Chelan PUD hereby files the 2007 Annual Lake Level Report dated November 6, 2007.

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

**LAKE CHELAN
ANNUAL LAKE LEVEL REPORT
2006-2007 OPERATING CYCLE**

LICENSE ARTICLE 405

Final

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

November 6, 2007



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

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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 requires Chelan PUD, within one year of the license issuance date, to file with FERC a report comparing monthly actual and target lake levels; and runoff volume forecasts and other factors influencing achievement of targeted lake levels.

Chelan PUD manages lake levels following an annual Operating Cycle, beginning in September, that starts to release water from Lake Chelan for power generation and other purposes from September through March, and then refills Lake Chelan from April through June. 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. The degree to which water is released from the lake and the resulting annual minimum lake elevation is regulated by Chelan PUD based on the predicted inflow from rain and snowmelt.

The License establishes target minimum lake levels for the period from May 1 – October 1 that Chelan PUD will make every reasonable effort to meet, consistent with other management constraints for flood control, protection of fish resources, and prevention of erosion. Chelan PUD manages power generation and spill with the intent of meeting target lake levels by using runoff and precipitation forecasts, past experience with runoff timing and actual lake levels. Chelan PUD's operation of the Project during the 2006-2007 Operating Cyclek resulted in lake levels being at or above the target minimum lake levels for recreation that are required by the new License. Due to a 2006 November storm event and above average precipitation, the elevation of Lake Chelan was higher than the License expected average elevations through the winter. (2006/2007)

The License contains a number of objectives, which can affect Chelan PUD's management of lake levels, which are intended to balance the needs of recreation and fish protection (Section 2). Some of these objectives take precedence over meeting target lake levels. There were no operations needed in 2006-2007 to protect fish in the Chelan River because new fish habitat and the outlet structure necessary to release minimum flows have not been completed. However, high lake levels and an April 1 runoff forecast for inflows 112 percent of normal led Chelan PUD to initiate spill in mid April in order to hold lake levels down to provide capacity for flood and erosion control.

To protect fish habitat from erosion, Chelan PUD manages spill to avoid exceeding 6,000 cfs, to the extent feasible. During the 2006-2007 Operating Cycle, spill in the Chelan River was kept at or below 6,000 cfs except for some brief tests up to 10,000 cfs to measure water levels and erosion for design of the new fish habitat in Reach 4 at the Chelan River. The lake was managed

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.

using spill and generation to meet the objectives in Section 2, of this document, including increased spill used to control a high inflow event in early June. Spill continued until the end of July. The lake level reached 1,099 feet on July 2 and was operated at or above 1,099.2 feet through August.

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, which results in lake levels being lowered during the winter when inflows are low and refilling during the spring and early summer when inflows to Lake Chelan increase from melting snow. During the public process associated with relicensing the Project, Chelan PUD held a number of meetings and negotiating sessions with representatives of local property owners, resort owners and other stakeholders with an interest in the effect of the Project's operation on the timing of drawdown and refill of Lake Chelan. As a result of the negotiations, a set of priorities and schedule for lake level operations were developed and incorporated into a settlement agreement, which was signed by state and federal land and resource management agencies, the City of Chelan and other stakeholders. The settlement agreement was incorporated into Chelan PUD's application for a new license and FERC included those lake level operation priorities and schedule into the License.

License Article 405 requires Chelan PUD, within one year of the license issuance date, to file with FERC a report comparing monthly actual and target lake levels; and runoff volume forecasts and other factors influencing achievement of targeted lake levels. License Article 405 also 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. The OCMP was submitted to FERC on May 4, 2007 and Chelan PUD is awaiting notification of FERC's approval of the OCMP. This present document constitutes Chelan PUD's first report of lake level operations, as required in License Article 405.

Chelan PUD manages lake levels following an annual Operating Cycle, beginning in September, that starts to release water from Lake Chelan for power generation and other purposes from September through March, and then refills Lake Chelan from April through July, with a target of reaching 1,098 feet on July 1. 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. The degree to which water is released from the lake and the resulting annual minimum lake elevation is regulated by Chelan PUD based on the predicted inflow from rain and snowmelt. The License sets a minimum lake level elevation of 1,079 feet, but actual operations of the Project have only approached that limit during two years (1,079.68 feet in 1970 and 1,079.69 feet in 1937) since the Project began operation in 1927. In most years the lake level remains above 1,084 feet through the winter. Chelan PUD monitors snowfall in the Lake Chelan runoff basin and predicts the April 1 – July 31 runoff volume on a monthly basis from January – April. When the runoff volume forecast is below normal Chelan PUD manages power generation to assure that refill of Lake Chelan will be accomplished. The License also establishes target

minimum lake levels for the period from May 1 – October 1 that Chelan PUD will make every reasonable effort to meet consistent with other management constraints for flood control, protection of fish resources and prevention of erosion. Chelan PUD managed power generation and spill with the intent of meeting target lake levels by using runoff volume and precipitation forecasts, past experience with runoff timing and actual lake levels. This report of lake level operations documents available information and 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.

SECTION 2: LAKE CHELAN LAKE LEVELS, INFLOWS AND OUTFLOWS

The License requires that Chelan PUD manage the operating levels of Lake Chelan to stay within the minimum (1,079 feet) and maximum (1,100 feet) water level elevations and meet target lake levels, after consideration of several objectives intended to balance the needs of recreation and fish protection, that are set forth in Chapter 8 of the Lake Chelan Comprehensive Plan. These management objectives, some of which take precedence over meeting target lake levels, are as follows:

- Maintaining minimum flows in the Chelan River (this objective has priority over lake levels);
- Reducing high flows in the Chelan River (this objective has priority over lake levels);
- Satisfying regulatory requirements for flood control (adjusting lake level);
- Providing usable lake levels for recreation (which varies between elevation 1,090 feet and 1,098 feet, depending on the slope of the shoreline and boat dock configurations);
- Reduce shoreline erosion;
- Preventing fish passage blockages (due to tributary barriers); and
- Minimizing the effect of refill on attainment of flow objectives for salmon in the mainstem Columbia River.

In consideration of these objectives, target lake level elevations are established for specific dates to promote recreation (Table 1).

Table 1. Target Lake Level Elevations

Date	Minimum Elevation (feet)
May 1	1,087.6
June 1	1,094.0
July 1	1,098.0
August 1	1,099.0
September 7	1,098.7
October 1	1,097.2

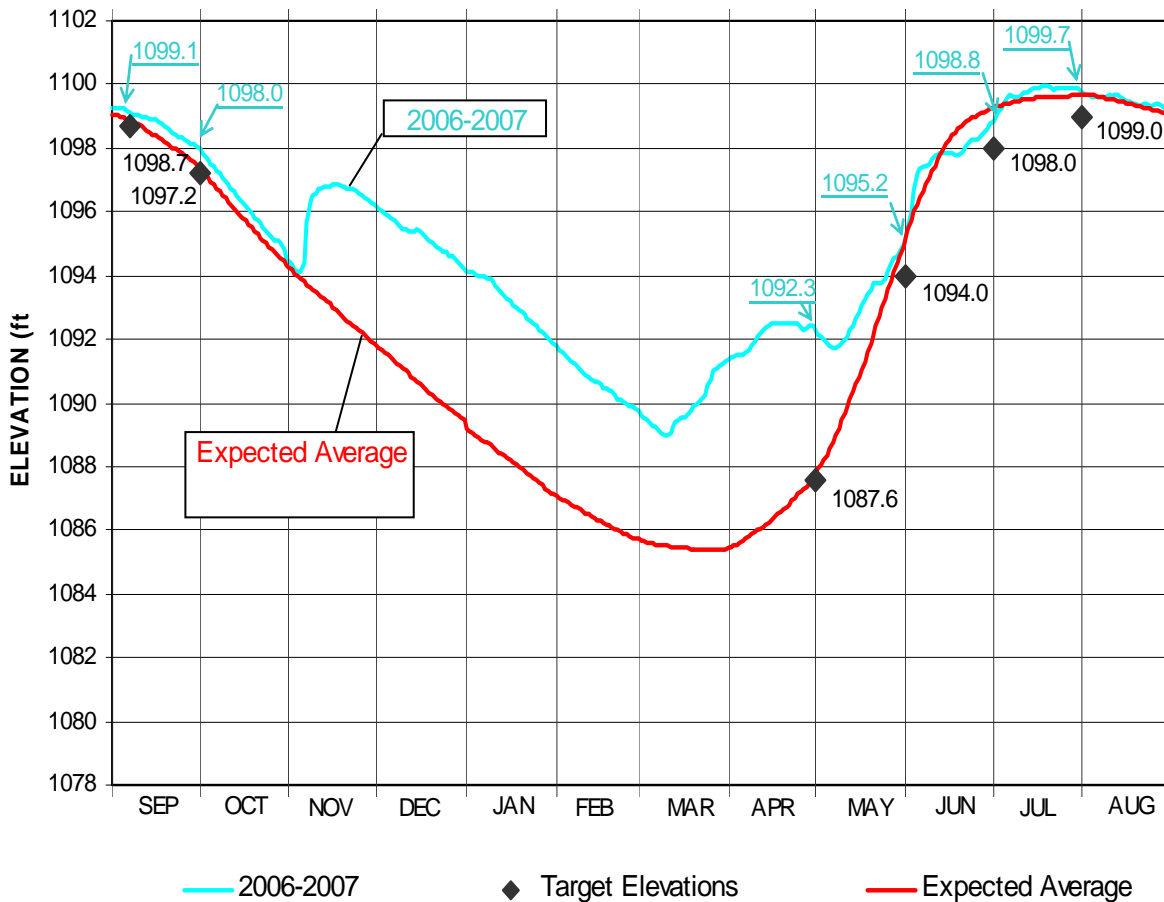
The Project's operations during the 2006-2007 Operating Cycle did not need to consider minimum flows in the Chelan River because the minimum flows can not be initiated until construction of new outlet is completed. Also, since the License was not issued until November 6, 2006, the target elevations for September 7 and October 1 were not yet in effect. The operation of the Project through November 2006 followed mandates of the previous FERC license, which required that the lake level meet a minimum elevation of 1,098 feet on September 30. However, the remaining objectives were considered during the 2006-2007 Operating Cycle.

2.1 Lake Levels – Actual Compared to Targets

Lake levels were at or above target minimum elevations throughout the 2006-2007 Operating Cycle of lake operations. Due to heavy fall rains, the lake partially refilled in early November

and lake levels remained above the expected elevations through the winter and spring. Spill was initiated very early, on April 16, to manage lake refill so that high runoff events could be partially stored in the lake and prevent high flows and resulting erosion in the Chelan River. Figure 1 shows the actual 2006-2007 lake levels compared to the expected average lake levels that will result from operations under the new License conditions.

Figure 1. Lake Chelan Surface Elevations in 2006-2007 Compared to License Target Elevations and Expected Average Elevations.



2.2 Lake Chelan Inflows and Outflows

The total inflow of water into Lake Chelan is not measured directly due to a number of small tributaries that are not gauged for flow. The principal tributary, the Stehekin River, is gauged and the flow information is published by the United States Geological Survey (USGS). Daily average inflow to Lake Chelan can be estimated from calculations using the daily change in lake level and measured discharges from the powerhouse and spillway. The calculations are subject to error due to lake level fluctuations from seiche events caused by downlake winds or from differences in barometric pressure between the upper and lower lake. This measurement variability and unmeasured irrigation and municipal water withdrawals from the lake result in the

calculated inflows being imprecise and fluctuating greatly from day to day, even resulting in negative values at times. The daily inflow estimates reported here have been smoothed using a five-day moving average of the inflow estimates, which results in a time lag between the estimate and sudden changes in inflows due to weather events. The value of these inflow estimates is to document how the lake level management is affected by storm events and inflow variability from the timing of snowmelt runoff events.

Outflows from the Project's operations are measured at the powerhouse turbines and calculated from the spillway gate openings. In the future, outflow will also be reported from the low level outlet that is scheduled for construction in 2008 to provide minimum flows into the Chelan River. These flows are tabulated as hourly averages at the end of each hour. Daily average flows are the average of each hourly flow from the hour ending at 0100 through the hour ending at 2400. Hourly flow data is available from Chelan PUD and spreadsheet tabulations of hourly outflow will be available at the Chelan PUD web site once minimum flows in the Chelan River have been initiated.

A tabulation of average daily outflows, estimated inflow and lake levels is presented in Appendix A. In addition, daily average lake levels from the USGS gauge at Lakeside and Stehekin River flows are provided in this tabulation.

SECTION 3: SUMMARY OF LAKE LEVEL MANAGEMENT DECISIONS

Chelan PUD controls the drafting and refilling of Lake Chelan with the aid of several snow monitoring locations that are used to predict total volume of snowmelt inflows and, in combination with weather forecasts, potential near-term changes in the timing of that snowmelt. The predicted snowfall from the National Weather Service and other sources is used to forewarn of potential limits to the amount that can be drafted from Lake Chelan for power generation, while still assuring that refill will occur by the summer recreation season. As the winter progresses, runoff volume forecasts specific to the Lake Chelan basin become available to predict the volume that can be withdrawn from the lake for generation. When snowfall is predicted to be low, Chelan PUD reduces or curtails withdrawals from the lake. During the drought winter of 2000-2001, Chelan PUD curtailed generation in late December of 2000 and did not draft any significant amounts of water from the lake until the following April, when the runoff forecast indicated that lake refill was assured. In a more typical year with average or low snowfall, reductions in powerhouse operations take place in the late winter or spring.

In most years, except those with drought conditions or late runoff, Chelan PUD operates the powerhouse throughout the winter and spring while monitoring lake levels and the condition of the snow pack to determine if spilling of water will be needed for flood control and to prevent high spill events that cause erosion in the Chelan River. In the future, protection of fish habitat being constructed in the Chelan River will also be a primary factor in managing the spill events.

3.1 Runoff Forecasts

April 1 through July 31, 2007 Runoff Forecasts for the Chelan Basin were produced on February 1, March 1 and April 1 of 2007. All of these forecasts predicted higher than average runoff volume and certainty of refill. The refill certainty was high in part due to a storm event in November of 2006 that raised lake levels to several feet above the normal reservoir operating curve. Runoff volume forecasts, lake level and volume required to refill are shown in Table 2.

Table 2. Runoff Volume Forecasts for Apr – Jul 2007

Month	Volume (SFD)	Percent of Normal	Lake Elevation (feet)	Feet Above/Below Normal	Volume to Refill (SFD)
February 1	609,100	116 %	1091.73	+ 4.3	135,500
March 1	598,600	114 %	1089.8	+ 4.6	167,500
April 1	588,100	112 %	1091.1	+ 8.1	146,000

3.2 Decisions Related To Objectives

Although the winter of 2006-2007 was originally predicted to have low runoff due to an expected El Niño weather pattern, the November storm event and subsequent greater than average snowfall resulted in lake levels and predicted runoff volumes that made it unlikely that any reductions in generation would be needed in order to refill the lake and meet target

elevations. However, there was concern for erosion from potentially high spill events in the Chelan River.

Spill was initiated in mid April and lake levels were held constant for a week, then drafted by 0.8 feet over the next two weeks to provide lake storage in case of sudden increases in snowmelt inflows. Spill was managed through the rest of May to bring the lake level into the normal operating curve by the first of June. Increased spill was used to control lake level during a high inflow event in the first week in June. Then, as inflows moderated, the lake was refilled, reaching 1,099 feet by July 2. To protect fish habitat from erosion, Chelan PUD manages spill to avoid exceeding 6,000 cfs, to the extent feasible. During the 2006-2007 Operating Cycle, spill in the Chelan River was kept at or below 6,000 cfs except for some brief tests up to 10,000 cfs to measure water levels and erosion for design of the new fish habitat.

Inflows continued to exceed powerhouse capacity through July and spill was continued into the second week of August. Inflows during August were less than the powerhouse capacity. Powerhouse generation was reduced as needed to maintain lake levels for recreation. The lake level was maintained at or above 1,099.2 feet through the month of August.

***APPENDIX A: DAILY AVERAGE LAKE CHELAN ELEVATIONS,
INFLOW AND OUTFLOW***

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
9/1/2006	1099.3	1099.3	442	-79	1454	0	NA	1454
9/2/2006	1099.2	1099.3	424	269	458	0	NA	458
9/3/2006	1099.2	1099.3	440	481	54	0	NA	54
9/4/2006	1099.2	1099.3	482	613	438	0	NA	438
9/5/2006	1099.2	1099.3	534	710	1417	0	NA	1417
9/6/2006	1099.2	1099.2	567	706	2188	0	NA	2188
9/7/2006	1099.1	1099.1	561	879	1525	0	NA	1525
9/8/2006	1099.0	1099.1	566	471	1213	0	NA	1213
9/9/2006	1099.1	1099.1	542	427	846	0	NA	846
9/10/2006	1099.0	1099.1	471	486	100	0	NA	100
9/11/2006	1099.0	1099.0	447	664	1108	0	NA	1108
9/12/2006	1099.0	1099.0	442	253	1129	0	NA	1129
9/13/2006	1099.0	1099.0	425	504	1225	0	NA	1225
9/14/2006	1098.9	1098.9	391	621	521	0	NA	521
9/15/2006	1098.9	1098.9	365	472	738	0	NA	738
9/16/2006	1098.9	1098.9	342	358	1313	0	NA	1313
9/17/2006	1098.8	1098.8	327	714	1633	0	NA	1633
9/18/2006	1098.7	1098.8	354	672	1379	0	NA	1379
9/19/2006	1098.7	1098.7	385	507	1513	0	NA	1513
9/20/2006	1098.6	1098.7	339	492	1763	0	NA	1763
9/21/2006	1098.6	1098.6	383	431	1671	0	NA	1671
9/22/2006	1098.5	1098.5	344	234	1454	0	NA	1454
9/23/2006	1098.4	1098.4	318	361	1450	0	NA	1450
9/24/2006	1098.4	1098.4	316	323	621	0	NA	621
9/25/2006	1098.3	1098.4	312	433	1521	0	NA	1521
9/26/2006	1098.3	1098.3	308	480	1550	0	NA	1550
9/27/2006	1098.2	1098.2	321	605	1575	0	NA	1575
9/28/2006	1098.1	1098.2	336	276	1504	0	NA	1504
9/29/2006	1098.1	1098.1	310	581	1383	0	NA	1383
9/30/2006	1098.0	1098.1	291	393	517	0	NA	517
10/1/2006	1098.0	1098.0	276	382	2029	0	NA	2029
10/2/2006	1097.9	1097.9	257	350	2200	0	NA	2200
10/3/2006	1097.7	1097.8	241	459	2200	0	NA	2200
10/4/2006	1097.7	1097.7	239	217	2200	0	NA	2200
10/5/2006	1097.5	1097.5	245	291	2200	0	NA	2200
10/6/2006	1097.4	1097.4	241	249	2200	0	NA	2200
10/7/2006	1097.3	1097.3	228	205	1817	0	NA	1817
10/8/2006	1097.2	1097.2	221	276	2200	0	NA	2200
10/9/2006	1097.1	1097.1	215	207	2200	0	NA	2200

² The total estimated inflow is based on calculations from changes in lake water surface elevation, which is highly variable due to wind, measurement error and other factors. Thus, daily inflow estimates may be obviously too low (even negative, which is impossible) or too high when compared to the inflow from the Stehekin River. When the estimated inflow is averaged over a period of ten days or more, it is reasonably accurate and useful to determine the proportion of inflow coming from high elevation snow melt versus low elevation runoff and rainfall. Inflows in early spring typically have a high contribution from low elevation sources, whereas late summer and fall inflow is predominately from the Stehekin River.

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
10/10/2006	1097.0	1097.0	208	277	2200	0	NA	2200
10/11/2006	1096.8	1096.9	206	341	2200	0	NA	2200
10/12/2006	1096.7	1096.7	205	318	2200	0	NA	2200
10/13/2006	1096.6	1096.6	211	339	2200	0	NA	2200
10/14/2006	1096.5	1096.5	209	362	2200	0	NA	2200
10/15/2006	1096.4	1096.4	217	326	2192	0	NA	2192
10/16/2006	1096.3	1096.3	215	348	2183	0	NA	2183
10/17/2006	1096.2	1096.2	199	410	2200	0	NA	2200
10/18/2006	1096.1	1096.1	189	227	2200	0	NA	2200
10/19/2006	1096.0	1096.0	215	440	2200	0	NA	2200
10/20/2006	1095.8	1095.9	276	501	2200	0	NA	2200
10/21/2006	1095.7	1095.7	221	347	2200	0	NA	2200
10/22/2006	1095.6	1095.6	206	284	2200	0	NA	2200
10/23/2006	1095.5	1095.5	200	661	2200	0	NA	2200
10/24/2006	1095.4	1095.4	196	444	2200	0	NA	2200
10/25/2006	1095.3	1095.3	190	494	2188	0	NA	2188
10/26/2006	1095.2	1095.1	183	1010	2200	0	NA	2200
10/27/2006	1095.1	1095.0	209	1021	2200	0	NA	2200
10/28/2006	1095.1	1094.9	234	575	2200	0	NA	2200
10/29/2006	1095.0	1094.8	211	65	2200	0	NA	2200
10/30/2006	1094.8	1094.7	196	-14	2200	0	NA	2200
10/31/2006	1094.6	1094.5	178	-432	2200	0	NA	2200
11/1/2006	1094.5	1094.4	170	-451	2200	0	NA	2200
11/2/2006	1094.3	1094.3	174	-166	2200	0	NA	2200
11/3/2006	1094.2	1094.2	201	710	2200	0	NA	2200
11/4/2006	1094.1	1094.1	659	2045	2200	0	NA	2200
11/5/2006	1094.1	1094.1	1020	6575	2200	0	NA	2200
11/6/2006	1094.4	1094.4	9760	9159	2200	0	NA	2200
11/7/2006	1095.7	1095.7	12900	10102	2200	0	NA	2200
11/8/2006	1096.3	1096.3	4900	10452	2200	0	NA	2200
11/9/2006	1096.5	1096.5	2890	9765	2200	0	NA	2200
11/10/2006	1096.6	1096.6	2170	5725	2200	0	NA	2200
11/11/2006	1096.7	1096.7	1760	3741	2200	0	NA	2200
11/12/2006	1096.7	1096.7	1540	3142	2200	0	NA	2200
11/13/2006	1096.8	1096.8	1420	2823	2200	0	NA	2200
11/14/2006	1096.8	1096.8	1200	2801	2200	0	NA	2200
11/15/2006	1096.8	1096.8	1130	2672	2200	0	NA	2200
11/16/2006	1096.9	1096.9	1100	2350	2200	0	NA	2200
11/17/2006	1096.9	1096.9	932	2210	2200	0	NA	2200
11/18/2006	1096.8	1096.8	852	2115	2200	0	NA	2200
11/19/2006	1096.8	1096.8	813	1720	2200	0	NA	2200
11/20/2006	1096.8	1096.8	775	1680	2200	0	NA	2200
11/21/2006	1096.7	1096.8	767	1714	2200	0	NA	2200
11/22/2006	1096.7	1096.7	735	1718	2200	0	NA	2200
11/23/2006	1096.7	1096.7	701	1646	2200	0	NA	2200
11/24/2006	1096.7	1096.7	665	1475	2200	0	NA	2200
11/25/2006	1096.6	1096.6	643	1286	2200	0	NA	2200

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
11/26/2006	1096.5	1096.5	625	1112	2200	0	NA	2200
11/27/2006	1096.4	1096.5	600	949	2200	0	NA	2200
11/28/2006	1096.4	1096.4	558	1027	2200	0	NA	2200
11/29/2006	1096.3	1096.3	534	1017	2200	0	NA	2200
11/30/2006	1096.3	1096.3	537	1066	2200	0	NA	2200
12/1/2006	1096.2	1096.2	533	1025	2200	0	NA	2200
12/2/2006	1096.1	1096.1	508	1082	2200	0	NA	2200
12/3/2006	1096.0	1096.0	490	912	2200	0	NA	2200
12/4/2006	1095.9	1095.9	480	911	2200	0	NA	2200
12/5/2006	1095.9	1095.9	461	967	2200	0	NA	2200
12/6/2006	1095.8	1095.8	443	978	2200	0	NA	2200
12/7/2006	1095.7	1095.7	431	903	2200	0	NA	2200
12/8/2006	1095.6	1095.6	417	978	2200	0	NA	2200
12/9/2006	1095.5	1095.6	407	1062	2200	0	NA	2200
12/10/2006	1095.5	1095.5	395	1175	2200	0	NA	2200
12/11/2006	1095.4	1095.4	410	1387	2200	0	NA	2200
12/12/2006	1095.4	1095.4	412	1725	2200	0	NA	2200
12/13/2006	1095.4	1095.4	428	2052	2200	0	NA	2200
12/14/2006	1095.4	1095.4	432	2013	2200	0	NA	2200
12/15/2006	1095.4	1095.5	447	1828	2200	0	NA	2200
12/16/2006	1095.4	1095.4	471	1603	2200	0	NA	2200
12/17/2006	1095.3	1095.3	441	1304	2200	0	NA	2200
12/18/2006	1095.2	1095.2	424	879	2200	0	NA	2200
12/19/2006	1095.1	1095.1	419	871	2200	0	NA	2200
12/20/2006	1095.0	1095.1	406	853	2133	0	NA	2133
12/21/2006	1095.0	1095.0	403	997	2200	0	NA	2200
12/22/2006	1094.9	1094.9	389	972	2200	0	NA	2200
12/23/2006	1094.8	1094.9	393	1131	2200	0	NA	2200
12/24/2006	1094.8	1094.8	381	1131	2200	0	NA	2200
12/25/2006	1094.7	1094.7	383	1292	2200	0	NA	2200
12/26/2006	1094.6	1094.7	369	1123	2200	0	NA	2200
12/27/2006	1094.6	1094.6	370	1070	2200	0	NA	2200
12/28/2006	1094.5	1094.5	355	893	2200	0	NA	2200
12/29/2006	1094.4	1094.4	350	793	2200	0	NA	2200
12/30/2006	1094.3	1094.3	340	613	2200	0	NA	2200
12/31/2006	1094.2	1094.2	334	794	2200	0	NA	2200
1/1/2007	1094.1	1094.1	337	1139	2200	0	NA	2200
1/2/2007	1094.1	1094.1	400	1283	2200	0	NA	2200
1/3/2007	1094.1	1094.1	549	1426	2200	0	NA	2200
1/4/2007	1094.0	1094.1	472	1684	2200	0	NA	2200
1/5/2007	1094.0	1094.0	445	1746	2200	0	NA	2200
1/6/2007	1094.0	1094.0	453	1621	2200	0	NA	2200
1/7/2007	1093.9	1094.0	448	1778	2200	0	NA	2200
1/8/2007	1093.9	1093.9	461	1799	2200	0	NA	2200
1/9/2007	1093.9	1093.8	444	1272	2200	0	NA	2200
1/10/2007	1093.9	1093.7	439	951	2200	0	NA	2200
1/11/2007	1093.7	1093.6	416	699	2200	0	NA	2200

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
1/12/2007	1093.6	1093.5	357	385	2200	0	NA	2200
1/13/2007	1093.5	1093.5	410	290	2200	0	NA	2200
1/14/2007	1093.4	1093.4	397	593	2200	0	NA	2200
1/15/2007	1093.3	1093.3	391	653	2200	0	NA	2200
1/16/2007	1093.2	1093.2	386	769	2200	0	NA	2200
1/17/2007	1093.1	1093.1	380	832	2200	0	NA	2200
1/18/2007	1093.0	1093.0	380	828	2200	0	NA	2200
1/19/2007	1092.9	1092.9	373	769	2200	0	NA	2200
1/20/2007	1092.9	1092.9	367	838	2200	0	NA	2200
1/21/2007	1092.8	1092.8	356	807	2200	0	NA	2200
1/22/2007	1092.7	1092.7	357	808	2200	0	NA	2200
1/23/2007	1092.6	1092.6	358	770	2200	0	NA	2200
1/24/2007	1092.5	1092.5	358	778	2200	0	NA	2200
1/25/2007	1092.4	1092.4	347	750	2200	0	NA	2200
1/26/2007	1092.3	1092.3	339	716	2200	0	NA	2200
1/27/2007	1092.2	1092.2	331	620	2200	0	NA	2200
1/28/2007	1092.1	1092.1	337	690	2200	0	NA	2200
1/29/2007	1092.0	1092.0	330	663	2200	0	NA	2200
1/30/2007	1092.0	1092.0	327	675	2200	0	NA	2200
1/31/2007	1091.8	1091.9	318	665	2200	0	NA	2200
2/1/2007	1091.8	1091.8	316	707	2200	0	NA	2200
2/2/2007	1091.7	1091.7	316	679	2200	0	NA	2200
2/3/2007	1091.6	1091.6	315	735	2200	0	NA	2200
2/4/2007	1091.5	1091.5	317	721	2200	0	NA	2200
2/5/2007	1091.4	1091.4	321	773	2200	0	NA	2200
2/6/2007	1091.3	1091.3	327	791	2200	0	NA	2200
2/7/2007	1091.2	1091.2	331	785	2200	0	NA	2200
2/8/2007	1091.1	1091.1	336	841	2200	0	NA	2200
2/9/2007	1091.0	1091.1	342	854	2200	0	NA	2200
2/10/2007	1091.0	1091.0	346	939	2200	0	NA	2200
2/11/2007	1090.9	1090.9	354	935	2200	0	NA	2200
2/12/2007	1090.8	1090.8	361	912	2200	0	NA	2200
2/13/2007	1090.7	1090.8	361	1072	2200	0	NA	2200
2/14/2007	1090.7	1090.7	362	1131	2200	0	NA	2200
2/15/2007	1090.6	1090.6	382	990	2200	0	NA	2200
2/16/2007	1090.6	1090.6	422	1239	2200	0	NA	2200
2/17/2007	1090.5	1090.5	414	1235	2200	0	NA	2200
2/18/2007	1090.5	1090.5	450	1287	2200	0	NA	2200
2/19/2007	1090.4	1090.4	464	1038	2200	0	NA	2200
2/20/2007	1090.4	1090.4	513	1119	2125	0	NA	2125
2/21/2007	1090.2	1090.2	501	985	2200	0	NA	2200
2/22/2007	1090.1	1090.2	488	976	2200	0	NA	2200
2/23/2007	1090.1	1090.1	474	895	2083	0	NA	2083
2/24/2007	1090.0	1090.0	468	1150	2000	0	NA	2000
2/25/2007	1090.0	1090.0	461	1222	2017	0	NA	2017
2/26/2007	1089.9	1089.9	454	1187	2133	0	NA	2133
2/27/2007	1089.9	1089.9	439	1291	2200	0	NA	2200

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
2/28/2007	1089.8	1089.8	431	1031	2200	0	NA	2200
3/1/2007	1089.7	1089.7	419	923	2200	0	NA	2200
3/2/2007	1089.6	1089.6	408	880	2200	0	NA	2200
3/3/2007	1089.5	1089.6	400	809	2200	0	NA	2200
3/4/2007	1089.5	1089.5	393	753	2200	0	NA	2200
3/5/2007	1089.4	1089.4	389	919	2200	0	NA	2200
3/6/2007	1089.3	1089.3	388	942	2200	0	NA	2200
3/7/2007	1089.2	1089.2	400	891	2200	0	NA	2200
3/8/2007	1089.1	1089.2	418	961	2200	0	NA	2200
3/9/2007	1089.1	1089.1	425	1126	2200	0	NA	2200
3/10/2007	1089.0	1089.0	453	1487	2200	0	NA	2200
3/11/2007	1089.0	1089.0	675	2485	2200	0	NA	2200
3/12/2007	1089.0	1089.0	3210	3352	2200	0	NA	2200
3/13/2007	1089.2	1089.2	2870	3811	2200	0	NA	2200
3/14/2007	1089.4	1089.4	2200	3984	2200	0	NA	2200
3/15/2007	1089.5	1089.5	1840	4009	2200	0	NA	2200
3/16/2007	1089.5	1089.5	1700	3540	2200	0	NA	2200
3/17/2007	1089.6	1089.6	1750	3299	2200	0	NA	2200
3/18/2007	1089.6	1089.6	2170	3564	2200	0	NA	2200
3/19/2007	1089.8	1089.7	2340	3723	2200	0	NA	2200
3/20/2007	1089.9	1089.9	2230	3686	2200	0	NA	2200
3/21/2007	1090.0	1090.0	1960	3741	2200	0	NA	2200
3/22/2007	1090.0	1090.0	1800	3828	2200	0	NA	2200
3/23/2007	1090.1	1090.1	1740	4312	2200	0	NA	2200
3/24/2007	1090.3	1090.3	3060	4705	2200	0	NA	2200
3/25/2007	1090.6	1090.6	4340	5335	2200	0	NA	2200
3/26/2007	1090.8	1090.8	3340	5402	2200	0	NA	2200
3/27/2007	1091.0	1091.0	2730	5066	2200	0	NA	2200
3/28/2007	1091.1	1091.1	2350	4389	2200	0	NA	2200
3/29/2007	1091.1	1091.1	2130	4068	2200	0	NA	2200
3/30/2007	1091.2	1091.2	1990	3423	2200	0	NA	2200
3/31/2007	1091.3	1091.3	1890	3320	2200	0	NA	2200
4/1/2007	1091.4	1091.4	1810	3197	2200	0	NA	2200
4/2/2007	1091.4	1091.4	1690	3028	2200	0	NA	2200
4/3/2007	1091.4	1091.4	1560	2759	2179	0	NA	2179
4/4/2007	1091.5	1091.5	1480	2683	2200	0	NA	2200
4/5/2007	1091.5	1091.5	1380	2553	2200	0	NA	2200
4/6/2007	1091.5	1091.5	1370	2806	2200	0	NA	2200
4/7/2007	1091.6	1091.6	1560	3223	2200	0	NA	2200
4/8/2007	1091.6	1091.6	2070	3700	2200	0	NA	2200
4/9/2007	1091.8	1091.8	2890	3958	2200	0	NA	2200
4/10/2007	1092.0	1092.0	2700	4217	2200	0	NA	2200
4/11/2007	1092.1	1092.1	2380	4273	2200	0	NA	2200
4/12/2007	1092.2	1092.2	2110	4008	2200	0	NA	2200
4/13/2007	1092.3	1092.3	1990	3750	2200	0	NA	2200
4/14/2007	1092.4	1092.4	1920	3605	2200	0	NA	2200
4/15/2007	1092.4	1092.4	1860	3429	2200	0	NA	2200

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Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
4/16/2007	1092.5	1092.5	1790	3276	2200	333	NA	2533
4/17/2007	1092.5	1092.5	1700	3037	2200	500	NA	2700
4/18/2007	1092.5	1092.5	1620	2873	2200	500	NA	2700
4/19/2007	1092.5	1092.5	1550	2767	2200	500	NA	2700
4/20/2007	1092.5	1092.5	1520	2674	2200	500	NA	2700
4/21/2007	1092.5	1092.5	1510	2656	2200	500	NA	2700
4/22/2007	1092.5	1092.5	1530	2789	2200	500	NA	2700
4/23/2007	1092.5	1092.5	1650	3143	2200	500	NA	2700
4/24/2007	1092.5	1092.5	1880	3545	2200	863	NA	3063
4/25/2007	1092.5	1092.5	2070	3561	2200	2271	NA	4471
4/26/2007	1092.4	1092.4	2080	3773	2200	4229	NA	6429
4/27/2007	1092.3	1092.3	2150	4034	2200	2729	NA	4929
4/28/2007	1092.3	1092.3	2930	4608	2200	500	NA	2700
4/29/2007	1092.4	1092.4	3080	4393	2200	500	NA	2700
4/30/2007	1092.4	1092.5	2820	4701	2200	5008	NA	7208
5/1/2007	1092.3	1092.3	2630	4895	2200	4346	NA	6546
5/2/2007	1092.1	1092.2	2670	4818	2200	4000	NA	6200
5/3/2007	1092.1	1092.1	2730	4071	2200	4000	NA	6200
5/4/2007	1092.0	1092.0	2570	4054	2200	3333	NA	5533
5/5/2007	1091.9	1091.9	2420	4032	2200	3000	NA	5200
5/6/2007	1091.8	1091.8	2350	4161	2200	3000	NA	5200
5/7/2007	1091.7	1091.7	2780	4595	2200	3000	NA	5200
5/8/2007	1091.7	1091.7	3840	5286	2200	3000	NA	5200
5/9/2007	1091.8	1091.8	4480	5937	2200	3000	NA	5200
5/10/2007	1091.9	1091.9	4260	6428	2200	3000	NA	5200
5/11/2007	1092.0	1092.0	4150	6989	2200	3000	NA	5200
5/12/2007	1092.1	1092.1	4360	6878	2200	3000	NA	5200
5/13/2007	1092.3	1092.3	5020	6803	2200	3000	NA	5200
5/14/2007	1092.4	1092.4	4670	6949	529	3000	NA	3529
5/15/2007	1092.6	1092.6	4600	7360	250	3000	NA	3250
5/16/2007	1092.8	1092.8	5340	7340	1000	3000	NA	4000
5/17/2007	1093.1	1093.1	5780	7779	1388	3000	NA	4388
5/18/2007	1093.3	1093.3	5330	7844	2200	3000	NA	5200
5/19/2007	1093.4	1093.4	5130	8013	2200	3000	NA	5200
5/20/2007	1093.5	1093.6	4750	7342	2200	3000	NA	5200
5/21/2007	1093.7	1093.7	4560	6755	2200	3000	NA	5200
5/22/2007	1093.7	1093.8	4180	6000	2200	3000	NA	5200
5/23/2007	1093.7	1093.8	4190	5832	2200	3000	NA	5200
5/24/2007	1093.8	1093.8	4280	5484	2200	1442	NA	3642
5/25/2007	1093.9	1093.9	4520	5956	2200	1300	NA	3500
5/26/2007	1094.1	1094.1	4760	6282	2200	1300	NA	3500
5/27/2007	1094.4	1094.4	5270	7004	2200	1300	NA	3500
5/28/2007	1094.6	1094.6	4990	6877	2200	1583	NA	3783
5/29/2007	1094.6	1094.6	4930	7369	2200	5196	NA	7396
5/30/2007	1094.7	1094.7	5540	7738	2200	1133	NA	3333
5/31/2007	1094.9	1095.0	6450	8354	2200	3200	NA	5400
6/1/2007	1095.2	1095.2	7170	9117	2200	3050	NA	5250

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Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
6/2/2007	1095.5	1095.5	7670	11091	2200	2500	NA	4700
6/3/2007	1096.0	1096.0	8740	12747	2200	1500	NA	3700
6/4/2007	1096.7	1096.7	10200	12602	2200	1950	NA	4150
6/5/2007	1097.2	1097.2	7960	11777	2200	6563	NA	8763
6/6/2007	1097.4	1097.4	5690	10521	2200	3563	NA	5763
6/7/2007	1097.4	1097.4	4590	8550	2200	3463	NA	5663
6/8/2007	1097.4	1097.4	4310	6414	2200	2325	NA	4525
6/9/2007	1097.5	1097.5	4660	5949	2200	2000	NA	4200
6/10/2007	1097.7	1097.7	5060	5820	2200	2000	NA	4200
6/11/2007	1097.8	1097.8	4700	5824	2200	2438	NA	4638
6/12/2007	1097.8	1097.8	4140	5669	2200	2700	NA	4900
6/13/2007	1097.8	1097.8	3950	5341	2200	2700	NA	4900
6/14/2007	1097.8	1097.8	3950	5013	2200	2700	NA	4900
6/15/2007	1097.8	1097.8	3890	4962	2200	2700	NA	4900
6/16/2007	1097.8	1097.8	3630	4553	2200	2700	NA	4900
6/17/2007	1097.8	1097.8	3670	4388	2200	2700	NA	4900
6/18/2007	1097.8	1097.8	3550	4353	2200	2050	NA	4250
6/19/2007	1097.8	1097.8	3530	4448	2200	1500	NA	3700
6/20/2007	1097.8	1097.8	3940	4636	2200	1500	NA	3700
6/21/2007	1097.9	1097.9	4570	5050	2200	1500	NA	3700
6/22/2007	1098.1	1098.1	4510	5258	2200	1500	NA	3700
6/23/2007	1098.2	1098.2	4110	5007	2200	1500	NA	3700
6/24/2007	1098.2	1098.2	3710	4564	2200	1500	NA	3700
6/25/2007	1098.3	1098.3	3250	4111	2200	1104	NA	3304
6/26/2007	1098.3	1098.3	3000	3905	2200	200	NA	2400
6/27/2007	1098.4	1098.4	3170	3821	2200	200	NA	2400
6/28/2007	1098.5	1098.5	3580	3986	2200	200	NA	2400
6/29/2007	1098.6	1098.6	3740	4208	2200	200	NA	2400
6/30/2007	1098.7	1098.7	3580	4385	2200	200	NA	2400
7/1/2007	1098.8	1098.9	3500	4428	2200	200	NA	2400
7/2/2007	1099.0	1099.0	3550	4497	2200	200	NA	2400
7/3/2007	1099.1	1099.1	3750	4802	2200	200	NA	2400
7/4/2007	1099.3	1099.3	4160	5549	2200	200	NA	2400
7/5/2007	1099.4	1099.4	4810	5685	2200	767	NA	2967
7/6/2007	1099.6	1099.7	4890	5537	2200	2375	NA	4575
7/7/2007	1099.6	1099.7	4250	5311	2200	2800	NA	5000
7/8/2007	1099.6	1099.6	3660	4879	2200	1825	NA	4025
7/9/2007	1099.6	1099.6	3660	4072	2200	1467	NA	3667
7/10/2007	1099.6	1099.6	3750	4114	2163	1700	NA	3863
7/11/2007	1099.7	1099.7	3910	4410	2200	1204	NA	3404
7/12/2007	1099.8	1099.8	4040	4647	2200	1667	NA	3867
7/13/2007	1099.8	1099.8	4140	4959	2200	2646	NA	4846
7/14/2007	1099.8	1099.8	4120	4954	2200	2458	NA	4658
7/15/2007	1099.9	1099.9	3840	4426	2200	2000	NA	4200
7/16/2007	1099.9	1099.9	3190	4201	2200	1479	NA	3679
7/17/2007	1099.9	1099.9	2720	4061	2200	358	NA	2558
7/18/2007	1099.9	1100.0	2810	3673	2200	913	NA	3113

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
7/19/2007	1100.0	1100.0	2810	3393	2200	1500	NA	3700
7/20/2007	1100.0	1100.0	2300	3328	2200	1500	NA	3700
7/21/2007	1099.9	1099.9	2030	3035	2200	1688	NA	3888
7/22/2007	1099.9	1099.9	2260	2787	2200	538	NA	2738
7/23/2007	1099.9	1099.9	2430	2583	2200	200	NA	2400
7/24/2007	1099.9	1099.9	2440	2485	2200	200	NA	2400
7/25/2007	1099.9	1099.9	2030	2491	2200	200	NA	2400
7/26/2007	1099.9	1099.9	1920	2426	2200	200	NA	2400
7/27/2007	1099.9	1099.9	1870	2316	2200	200	NA	2400
7/28/2007	1099.9	1099.9	1740	2289	2200	200	NA	2400
7/29/2007	1099.9	1099.9	1670	2047	2200	200	NA	2400
7/30/2007	1099.9	1099.9	1500	1818	2200	100	NA	2300
7/31/2007	1099.8	1099.8	1340	1623	2200	30	NA	2200
8/1/2007	1099.7	1099.7	1250	1581	2200	30	NA	2200
8/2/2007	1099.7	NA	1300	1409	2200	30	NA	2200
8/3/2007	1099.7	NA	1300	1259	2154	30	NA	2154
8/4/2007	1099.6	NA	1210	1445	2188	30	NA	2188
8/5/2007	1099.6	NA	1210	1395	700	30	NA	700
8/6/2007	1099.6	NA	1220	1112	1833	30	NA	1833
8/7/2007	1099.6	NA	1230	1060	871	30	NA	871
8/8/2007	1099.6	NA	1160	1262	867	30	NA	867
8/9/2007	1099.6	NA	1070	938	1000	0	NA	1000
8/10/2007	1099.6	NA	990	806	950	0	NA	950
8/11/2007	1099.6	NA	923	1027	946	0	NA	946
8/12/2007	1099.7	NA	905	985	0	0	NA	0
8/13/2007	1099.7	NA	858	858	1592	0	NA	1592
8/14/2007	1099.6	NA	866	1052	1942	0	NA	1942
8/15/2007	1099.5	NA	922	1177	1938	0	NA	1938
8/16/2007	1099.5	NA	971	878	1900	0	NA	1900
8/17/2007	1099.5	NA	953	804	1871	0	NA	1871
8/18/2007	1099.4	NA	870	1006	1654	0	NA	1654
8/19/2007	1099.4	NA	844	758	575	0	NA	575
8/20/2007	1099.4	NA	837	664	1708	0	NA	1708
8/21/2007	1099.3	NA	925	896	771	0	NA	771
8/22/2007	1099.4	NA	899	982	0	0	NA	0
8/23/2007	1099.4	NA	861	817	1425	0	NA	1425
8/24/2007	1099.3	NA	850	902	1683	0	NA	1683
8/25/2007	1099.3	NA	836	908	742	0	NA	742
8/26/2007	1099.4	NA	902	604	0	0	NA	0
8/27/2007	1099.4	NA	813	599	696	0	NA	696
8/28/2007	1099.3	NA	748	647	775	0	NA	775
8/29/2007	1099.3	NA	748	616	1596	0	NA	1596
8/30/2007	1099.2	NA	795	615	1392	0	NA	1392
8/31/2007	1099.2	NA	815	590	775	0	NA	775