



**RH2 TECHNICAL**

# Memorandum

**Client:** Chelan County Department of Natural Resources

**Project:** Lake Chelan WRIA 47 Water Rights Processing

**Project File:** CNR 714.046.01.101    **Project Manager:** Paul Cross, P.E.

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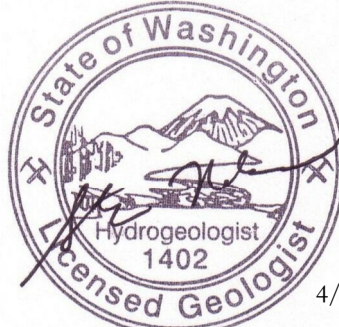
**Subject:** Lake Chelan Watershed Reserve Accounting Analysis

**Date:** April 30, 2014



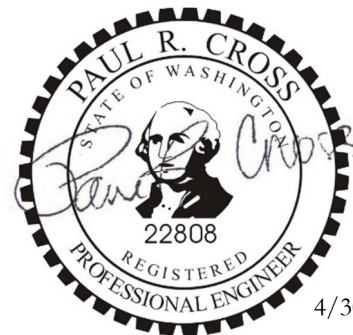
4/30/14

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## Introduction

This memorandum summarizes a recent estimate of the annual quantity of water rights remaining in the Lake Chelan Water Right Reserve, and an estimate of the annual quantity of water rights proposed in all of the active water right applications in the Lake Chelan Watershed above Chelan Dam.

The Washington State Department of Ecology (Ecology), the Chelan County Department of Natural Resources (CCNR), and the Lake Chelan Water Resources Inventory Area (WRIA) 47 Planning Unit (PU) desire to collectively process more than 100 applications for new water rights within WRIA 47 following a coordinated cost-reimbursement program authorized under Revised Code of Washington (RCW) 90.03.265 (3) which states:

To initiate this process, the department must notify in writing all persons who have pending applications on file for a new appropriation, change, transfer, or amendment of a water right from that water source. A water source may include surface water only, groundwater only, or

surface and groundwater together if the department determines that they are hydraulically connected. The notice must be posted on the department's web site and published in a newspaper of general circulation in the area where affected properties are located. The notice must also be made individually by way of mail to:

- (a) Inform those applicants that cost-reimbursement processing of applications within the described water source is being initiated;
- (b) Provide to individual applicants the criteria under which the applications will be examined and determined;
- (c) Provide to individual applicants the estimated cost for having an application processed on a cost-reimbursement basis;
- (d) Provide an estimate of how long the cost-reimbursement process will take before an application is approved or denied; and
- (e) Provide at least sixty days for the applicants to respond in writing regarding the applicant's decision to participate in the cost-reimbursement process.

The intention of the PU to review the status of existing water rights and process applications for new water rights are two of the recommended actions for water quantity in the *WRIA 47 Chelan Watershed Plan* (RH2, 2013).

## **Water Right Reservation in Lake Chelan**

A 1925 water right (Surface Water Certificate 319) issued to the Chelan Electric Company, now the Chelan County Public Utility District No. 1 (District), established a water right reservation of 45,000 acre-feet per year (afy) for multiple beneficial uses. A 1992 Agreement between Ecology and the District increased the water right reservation to 65,000 afy. The 1925 right and 1992 Agreement state that the reservation applies only to water above the Lake Chelan Dam and may only be used in the Lake Chelan Watershed. RH2 Engineering, Inc. (RH2) has estimated the volume of water that has been allocated by Ecology in the Lake Chelan Watershed above Chelan Dam and the amount of water remaining in the reservation and available for new water rights processing.

## **Evaluation of Water Right Tracking System Water Rights Database**

A Water Right Tracking System (WRTS) spreadsheet containing all water right documents for WRIA 47 was obtained from Ecology on March 17, 2014. The original list from Ecology included a total of 2,386 records. To estimate the quantities of active rights, this list was culled to exclude the following types of documents:

1. All inactive water right documents;
2. All new water right applications;
3. All water right change applications;
4. All water rights with the point of diversion/withdrawal outside of the topographic boundary of Lake Chelan above the District's dam within WRIA 47 defined in Chapter 173-500 Washington Administrative Code (WAC). For points of diversion/withdrawal for water

rights located near the watershed boundary, each water right point of diversion/withdrawal location was viewed in the Water Resources Explorer and compared to the topographic divide/WRIA 47 boundary to determine whether the point of diversion/withdrawal was inside or outside of the Lake Chelan watershed;

5. All reservoir permits; and
6. All claims.

Additionally, RH2 reviewed water rights that have been through the change process in order to avoid double-counting the annual volume, which is possible based on WRTS tracking of water rights records. For instances where a water right was split through the change process, all of the daughter rights were retained for accounting and the original certificate or permit was removed from accounting. When multiple changes were made to one water right, but no daughter rights were produced, the most recent change decision was retained and the older change decisions were not included in the accounting. This accounts for any reduction in annual quantity brought about by the water right going through the change process. All available documentation for water rights identified in the WRTS summary as “Chng/ROE” was reviewed and appropriate records were either culled or retained for accounting. Also, priority dates for water rights at the “Chng/ROE” stage were restored to the actual priority date of the original water right, as opposed to the date recorded in WRTS, which indicates the date of change application filing.

Water rights identified for power use were assumed to be non-consumptive and no annual volume was assigned or debited from the reserve for these rights.

This evaluation resulted in a total of 768 water right records (excluding claims) that consist of water rights that are at the following stages: Permit; Certificate; Adjudicated Certificate; Certificate of Change; Change Report of Examination (ROE); and one ROE.

## Claims

Water right claims were not included in the accounting, as they may or may not represent a valid water right and/or the quantity may be incorrect or absent. In many cases, the instantaneous rate and annual volume identified on a claim are unrealistic for the actual amount of water needed for the claimed use. Short-form claim forms did not require information on the instantaneous rate and annual volume and these quantities are usually not provided on the form.

Previous reserve accounting may have taken into account a tentative determination of the validity and extent of claims (Bob Barwin with Ecology, personal communication, April 7, 2014), but this was not done as part of this analysis. However, many claims are likely valid and represent actual water use and senior rights which should be accounted for in the final annual quantity analysis. Ecology and the District should establish, based on the intent of the 1992 Agreement, how to rationalize and account for claims to determine the most accurate and legally defensible estimate of senior water rights before releasing new rights from the reserve.

If claims are to be considered, Ecology and the District should agree on details such as the exclusion of claims based on identified priority date (i.e., after the water code was in place), alteration of annual volumes based on identified beneficial uses, and how to account for annual volumes for claims with no information on the number of connections or irrigated acres.

Based on a preliminary assessment, it is estimated that the annual volume that would be found to be valid through an adjudication of claims would be less than 4,000 afy.

### **Estimating the Current Annual Volume Allocated Under Active Water Right Documents**

Several conditions led to various methods to quantify the annual volume of the water right. Those rights where WRTS listed an annual volume were included without additional investigation.

In a few instances when the annual volume appeared to be erroneously high based on acreage or type of use, the water right documents were reviewed. If the water right record was considered to be more accurate than the WRTS values, the water right record values were quantified in lieu of the WRTS values. Modifications to the WRTS database are shown in underlined text and noted in the WRTS spreadsheet.

Many of the water right records indicate only the instantaneous rate, and did not include an annual volume either in the database, or on the water right documents themselves. This practice was fairly common with older surface water rights in Washington State issued prior to 1960. If an annual volume was not identified, then assumed values for different water uses were used to estimate the annual volume of the water right (**Table 1**).

**Table 1. Estimated Water Uses for Unquantified Water Rights**

<b>Water Use</b>	<b>Annual Volume Assigned (afy)</b>
Domestic, per connection	1
Irrigation, per acre	3.5
Stock Watering	1

The single domestic estimate of 1 afy is lower than the 2 afy estimate in the initial watershed assessment (Montgomery Water Group, 1995). However, RH2 has reviewed Ecology’s historical allocation of water to single domestic purposes, which ranged between 1 and 2 afy before 1990, and since 1990, has been allocated a volume of approximately 0.5 afy for this same purpose of use. The reduction in certificated water use is likely based on more efficient use of water now than in the early 1900s and the availability of more metering data to review and justify issuing the post-1990 water rights with the 0.5 afy annual volume. Since beneficial use is the actual measure of a domestic water right, RH2 concluded that 1 afy per connection for unquantified water rights is a reasonable but conservative estimate for single domestic use.

The irrigation water duty of 4 feet per acre was used in the initial watershed assessment (Montgomery Water Group, 1995). This annual volume is very high for the crops grown and the irrigation methods used in the watershed. Ecology has issued a duty of approximately 3.5 feet per acre for more recent water rights. The water duty of 3.5 feet per acre is considered to be a sufficiently conservative estimate for each unquantified irrigation water right lacking a defined annual volume to irrigate the highest duty crop with reasonable, but not necessarily the most efficient, irrigation methods.

Water rights identifying stock watering as a purpose of use were assigned a volume of 1 afy for this use, with the understanding that stock watering use can range from a single animal up to large herds. RH2 assumed that stock watering in WRIA 47 is typically associated with a few animals; therefore, 1 afy appeared reasonable.

## **Large Quantity Water Right Holders**

A more careful review of the water right record was performed for a few select entities that hold multiple water rights and, as a group, hold the majority of authorized annual quantities in the basin. Those entities include the Lake Chelan Reclamation District; City of Chelan; RLF Cascade Land Holdings, LLC; L H Piro-Beebe, LLC et al; Beebe Orchards Water Association; and Bear Mountain Ranch and Water District. The total estimated annual volume for water rights held or utilized by these entities has been estimated to equal 37,502 afy, or approximately 58 percent of the total reserve.

### **Lake Chelan Reclamation District**

The Lake Chelan Reclamation District (LCRD) holds multiple water rights for both irrigation (Adjudicated Certificates S4-\*46003J, S4-21301J, S4-21303J, S4-21305J, S4-21306J, S4-21308J, S4-21309J, S4-21310J, S4-21311J, S4-21312J, S4-21314J, S4-21316J, S4-21317J, and S4-21318J; Certificates SWC 212, SWC 213, SWC 3408, and S4-01345) and municipal supply (Certificate S4-27077C; Permits S4-30333 and S4-30334). Based on language in the report of examination for S4-01345, the total irrigation rights held by LCRD equaled 21,450 afy on December 16, 1969. However, in the certificate for the same right, which was issued on May 12, 1995, the total irrigation rights were provisioned as not to exceed 22,388 afy for the irrigation of 6,600 acres. RH2 assumed that the higher number was correct since it is a provision on a more recently issued certificate. The municipal rights held by LCRD equal 2,672 afy as provisioned in the reports of examination for S4-30333 and S4-30334 issued on March 1, 1995. Therefore, the total annual water rights held by LCRD within the watershed are estimated to equal 25,060 afy.

### **City of Chelan**

The City of Chelan (City) holds or utilizes all or a portion of municipal water rights SWC 178, SWC 458(A), SWC 709(A), SWC 710, SWC 3244, SWC 4018, SWC 8093, SWC 10891, S4-25651P, S4-28906C(A), S4-30166P, S4-30167P, and S4-30361P. In the report of examination for S4-30167, issued in March, 1993, Ecology identified the annual volume under SWC 4018, SWC 10891, S4-30166P, and S4-30167P as not to exceed 4,283 afy. In addition to the rights originally obtained by the City and limited to 4,283 afy, the City has acquired interest in portions of four other water rights (SWC 458(A), SWC 709(A), S4-25651P, and S4-28906C(A)) and five full water rights (SWC 178, SWC 710, SWC 3244, SWC 8093, and S4-30361P), all totaling 1,093.14 afy. Therefore, the total of water rights held or utilized by the City of Chelan within the watershed is estimated to equal 5,376.14 afy.

### **Bear Mountain Ranch and Water District**

The Bear Mountain Ranch and Bear Mountain Water District hold or utilize numerous water rights. These water rights include SWC 4590, SWC 5182, SWC 9550, SWC 9551, S3-00148C, S3-22540C, S4-27562C, S4-28906C(B), S4-30277P, S4-30501P, S4-30502C(A), S4-30541P, S4-30542(A) & (B),

S4-30544P, S4-30693P, and S4-30959P. This water is used for municipal, irrigation, and related uses such as frost protection and golf course pond filling. The total water rights held or utilized by these two entities within the watershed, excluding water right claim 120592, are estimated to equal 2,968.04 afy.

*RLF Cascade Land Holdings, LLC, L H Piro-Beebe, LLC et al, and Beebe Orchards Water Association*

RLF Cascade Land Holdings, LLC, L H Piro-Beebe, LLC et al, and Beebe Orchards Water Association jointly share three water rights (SWC 540, SWC 564, and SWC 1052) that have been split among them. A water right change in the name of the Lower Squilchuck Irrigation District also references SWC 540, but it is not certain if this transfer is contained within or in addition to the annual volume described below. The original point of diversion for SWC 1052 with priority date of 1918 was Indian Springs, which is below the current location of Chelan Dam. The original point of diversion for SWC 540, with a priority date of November 1925, and SWC 564, with a priority date of 1931, is the penstock of the Lake Chelan Dam immediately above the point at which water enters the dam turbines. The point of diversion for the majority of this water was transferred to be taken directly off of the penstock for the hydropower plant which is located at the Chelan Dam. Per Superseding Certificates issued in March 2005, the cumulative total that all entities can take from the penstock under these water rights is estimated to equal 4,098.1 afy. A personal communication with Bob Barwin from Ecology (April 7, 2014) confirmed that all water rights diverting from the District's penstock should be debited against the reserve.

**Previous Reserve Accounting**

Previous investigators have estimated the annual volume of water that has been allocated and also the volume of water that remains under the reserve. The reserve accounting identified in various documents has been summarized in **Table 2**. An attempt has also been made to trace water allocation through time to see how the accounting from this study compares with these historic points. This comparison can be seen in **Table 2**.

**Table 2. Reserve Accounting Documented through Time (Does not include claims)**

<b>Historical Date Pertaining to Allocation Estimate</b>	<b>Prior Estimate of Allocated Quantity for Historical Date (afy)</b>	<b>Source of Estimate</b>	<b>New Estimate of Allocated Quantity for Historical Date (afy)</b>
July 22, 1925	12,000	1992 Agreement Concerning Water Right Certificate No. 319 between Ecology and the District	14,288 <sup>1</sup>
December 16, 1969	30,163	ROE for S4-01345 for LCRD. <b>The number presented is after this right was issued.</b>	35,547
September 1982	34,198	Aspect Consulting LLC, July 25, 2013, Lake Chelan Water Rights Permitting Options. Barwin estimate.	42,710
April 29, 1992	34,000	1992 Agreement Concerning Water Right Certificate No. 319 between Ecology and the District	45,113
March 1, 1995	47,000	ROEs for S4-30333 and S4-30334 for LCRD. <b>The number presented is after these rights were issued.</b>	52,243
1995	35,900	Initial Watershed Assessment WRIA 47, June 8, 1995 (Permits and Certificates only)	
February 7, 2002	46,702.5	ROEs for S4-30277 and changes to old Beebe Ranch water rights. <b>The number presented is after these rights were issued.</b>	53,689
March 17, 2014	46,736.5	Extrapolating from accounting in ROEs issued in February 7, 2002	53,723
		<b>Remaining Balance from 65,000 afy</b>	<b>11,277 afy</b>

<sup>1</sup> Issuance of S4-01052 predates the District's water right and it was included in this study's tally as being senior to July 22, 1925, even though a change application approved in 2002 recognized that it was diverting water from the hydropower penstock. Earlier investigators would not have accounted for this right. If the estimated 2,732 afy for S4-01052 is subtracted from this value, the volume would be 11,556 afy, which is similar to the original estimate of 12,000 afy.

One difficulty with replicating the previous accounting is that the priority date might be many years different from when a water right is processed and when the accounting is performed. For instance, water right permit S4-30277 has a priority date of May 22, 1990, but the report of examination was issued on February 7, 2002. WRTS database output search only provides the priority date, which as shown here can be decades different from when an ROE or permit might have been issued. To try to fix this issue, a second WRTS query was performed and the original permit issuance date was extracted and used for purposes of determining how this current investigation compares with the other accounting tabulations made over time. Keep in mind that the issuance and then cancellation of permits would also create differences between these two accounting methods. However, for this study, that level of detail was not investigated, since ultimately it does not impact the current value.

The summary in **Table 2** indicates that approximately 11,277 afy remain in the reserve, if all of the assumptions used to perform the accounting are either correct or determined to be reasonable. A second accounting was performed beginning with Bob Barwin's September 1982, 34,198 afy as the starting point and only looking at more recently issued water rights. Using this approach, approximately 16,334 afy remain in the reserve. Using either method results in a lower remaining reserve compared to previous investigator's estimates. One potential source of the variability could be the use of the water right priority date in relation to September 1982 to determine how much water had been allocated after the Barwin accounting. The date that the ROE is issued (close to the permit issuance date) is actually when the water right should be debited from the reserve; RH2 concludes that the method used for this study resulting in an remaining reserve estimate of 11,277 afy is more accurate.

There are 186 water rights that are at permit, superseding permit, or change/ROE stage. If many of these water rights are ready to go to certificate, then a proof examination could be performed by a certified water right examiner and a certificate could be issued. Certification of these rights might increase the quantity of reservation water if certificates are issued for less than the permitted quantities based on proof examination results.

A summary of the reserve accounting methodology is attached as Summary of Reserve Accounting Spreadsheet.

## **Summary of Issues Requiring Resolution**

The following summarizes technical and legal issues that Ecology, the District, and CCNR should resolve to establish a formal determination of the volume in the reservation available for new applications for beneficial use.

### **Claims as Part of the Reservation**

Pre-1925 claims may or may not be considered part of the pre-1925 estimate of 12,000 afy because those claims were not filed until the 1970s. Bob Barwin from Ecology (personal communication, April 7, 2014) indicated that he attempted to quantify all water use recognized under a water right during his 1984 accounting. RH2's assessments on claims would likely look at claims as follows.

- Post-1917 surface claims could be considered invalid as there was a water right process after 1917.



**Table 3. Estimated Water Uses for Unquantified New Applications**

<b>Purpose</b>	<b>afy</b>	<b>Purpose</b>	<b>afy</b>	<b>Purpose</b>	<b>afy</b>
Irrigation (per acre)	3.5	Frost Protection (FP) (per acre)	1	Commercial/Industrial (CI)	1
Domestic Multiple, General, Single (DM, DG, DS)	0.5	Heat Protection (HP) (per acre)	0.25	Fire Protection (FR)	0
Stock	1	Recreation (RE)	5	Power, Fish Propagation, Storage (PO, FS, SR)	0

**Table 4** (attached) summarizes the new application details and an accumulated tally of annual volume water based on processing of new applications by priority. The total of the annual quantity requested is estimated at 10,129 afy. This estimate is close to the estimated annual volume remaining in the reserve (11,277 to 16,334 afy) without considering claims and exempt wells. Clearly, the number of applications that may be processed will depend on a conclusive determination of the quantity of water already used from the reservation, with or without claims and existing exempt wells, and the amount available for new applications, with or without new exempt wells.

References:

Aspect Consulting, July 25, 2013, Lake Chelan Water Right Permitting Options. Prepared for the Chelan County Department of Natural Resources.

City of Chelan, January 2010, Water System Plan.

Montgomery Water Group and Others, June 8, 1995, Draft Initial Watershed Assessment Water Resources Inventory Area 47 Chelan Watershed, Open File Technical Report 95-13.

RH2 Engineering, Inc. January 2012. Lake Chelan Watershed Plan (WRIA 47). Prepared for WRIA 47 - Lake Chelan Watershed Planning Unit.

Enclosures:

Table 4 – Summary of New and Active Applications for Water Rights Above Chelan Dam

Reserve Accounting Spreadsheet

Summary of Reserve Accounting Spreadsheet

- Or, should potential riparian rights be recognized up through 1932?
- Post-1945 groundwater claims could be considered invalid as there was a water right process after 1945.

A methodology for partial validation of claims where quantities are overestimated or uncertain should be established. RH2 has requested from Ecology a copy of Bob Barwin's 1984 assessment of existing rights for review and to use his estimate of pre-1925 water rights as the foundation for the remainder of the accounting, but Ecology has been unable to produce it.

#### Current and Future Exempt Wells as Part of the Reservation

Ecology records indicate that more than 800 water wells with diameters 6 inches or less are recorded for the entire WRIA 47 (both above and below the dam). Many of these wells are used for water supply and are exempt from the water rights permitting process. Bob Barwin (personal communication, April 7, 2014) indicated that he had attempted to estimate the amount of water used from these sources in his 1984 assessment. RH2 and Bob Barwin discussed the distribution of municipal infrastructure and the hydrogeology of the Chelan basin and it was agreed that in locations where permit exempt wells provide the only source of water for residential development, those wells likely yield low annual volumes of groundwater. Groundwater withdrawn from existing exempt wells in WRIA 47 above the dam (which are presumed to divert water from Lake Chelan) may reasonably be quantified as part of the reserve. If each exempt well is assumed to be withdrawing 0.5 afy (likely the actual withdrawal is less) then it may be reasonable to allocate approximately 200 afy to existing permit-exempt wells.

The PU, the District, and Ecology may desire to set aside a portion of the remaining reservation for new exempt wells above the dam. It may be reasonable to set aside approximately 100 afy for future permit-exempt wells.

#### Future Reservation Accounting

Estimating the amount of water allocated and utilized under this reserve is not straightforward, due to the passage of time, the number of water right records, and the complexity of estimating actual beneficial use. If additional water right may be released to support new applications not met by the currently available reserve, it might be prudent to establish a new and separate accounting for newly issued rights after the current reserve is allocated. This will create a clean starting point for future reserve accounting, which should be actively maintained by Ecology, as is done with other reservations throughout the state.

### **Estimate of Quantities Requested in New Applications**

RH2 reviewed the 152 active applications for new water rights where the proposed points of diversion/withdrawal are apparently above the Chelan Dam to estimate the potential quantity in demand from new applications. Where the annual volume is recorded in WRTS, this value is assumed to be correct. Where the annual volume is not included in WRTS, the following estimates of annual volume for various purposes were used to quantify the total volume requested (**Table 3**).

**Table 4.**  
**Summary of New and Active Applications for Water Rights Above Chelan Dam**

Estimated Volume of Proposed Purpose of Use					
Purpose	afy	Purpose	afy	Purpose	afy
Irr (per acre)	3.5	FP	1	CI	1
DM, DG, DS	0.5	HP	0.25	FR	0
Stock	1	RE	5	PO, FS, SR	0

Doc Numbe	Priority	Applicant	Doc ID	Purpose	Qi cfs	Qi gpm	Qa afy	Acres	Source	Total
G4-28205	5/12/1983	Gebbers Farms Inc	2283981	IR		407	175	50	G	175
G4-28219	5/23/1983	Gebbers Farms Inc	2283982	IR		255	105	30	G	280
G4-28471	5/30/1984	Pitman Carl	2284156	IR		400	140	40	G	420
S4-29148	10/21/1986	Pittman Brothers Orchards	2085461	IR	0.067		10.5	3	S	431
G4-29401	8/19/1987	Sylte Frazier	2085420	DM IR		100	18	5	G	449
G4-30048	8/16/1989	Plese Michael	2085547	DM FR IR		60	88	25	G	537
S4-30475	8/10/1990	Miller Marshall	2085698	DM IR PO	3.26		350.5	100	S	887
S4-30476	8/10/1990	Miller Marshall	2085699	DM IR	1.06		350.5	100	S	1,238
S4-30540	1/9/1991	Bear Mountain Ranch Inc	2085926	DM FR IR RE	2.6		320.5	90	S	1,558
S4-30543	1/9/1991	Bear Mountain Ranch Inc	2085351	DM IR	8		525.5	150	S	2,084
S4-30555	1/23/1991	Freer Percy	2085676	DM IR	0.06		2.25	0.5	S	2,086
G4-30559	1/30/1991	Cooper Jimmie	2085677	IR		50	52.5	15	G	2,138
G4-30560	1/30/1991	Cooper Jimmie	2085678	IR		50	35	10	G	2,173
G4-30687	4/9/1991	Paulston John	2085888	CI FP HP IR ST		250	54.25	11	G	2,228
S4-30771	5/29/1991	Newman Gene	2085843	DS IR PO	0.22		0.5		S	2,228
G4-31010	10/21/1991	Verellen Ned	2085986	DM FR IR		70	18	5	G	2,246
G4-31091	10/31/1991	Reggett George	2085944	DS IR		25	23.25	6.5	G	2,269
S4-31192	3/12/1992	Sherer Wesley	2086124	DM IR	1.5		70.5	20	S	2,340
S4-31504	10/8/1992	Bernhardt Ronald	2086437	DS IR	0.01		2.25	0.5	S	2,342
S4-31534	11/9/1992	Peterson Wesley	2086412	DM IR	0.75		116	33	S	2,458
G4-31727	5/6/1993	Triangle C Farms Inc	2086371	DS IR ST		30	19	5	G	2,477
G4-31902	1/10/1994	Martin James	2086479	DS IR RE ST		35	27.675	6.05	G	2,505
G4-31909	1/20/1994	Lesmeister Robert	2086485	DS IR		25	7.5	2	G	2,512
G4-31925	2/11/1994	Kludt-Waldron Orchards Inc	2086499	DM FP IR		100	56.75	12.5	G	2,569
S4-31954	3/21/1994	Kneisley Philip	2086522	DM	0.02		4		S	2,573
S4-34578	4/14/1994	Okinsella Keven	2086969	DS	0.011		0.5		S	2,573
S4-32149	8/24/1994	Miller Mark C	2086830	DM IR	1.34		210.5	60	S	2,784

**Table 4.**  
**Summary of New and Active Applications for Water Rights Above Chelan Dam**

Estimated Volume of Proposed Purpose of Use					
Purpose	afy	Purpose	afy	Purpose	afy
Irr (per acre)	3.5	FP	1	CI	1
DM, DG, DS	0.5	HP	0.25	FR	0
Stock	1	RE	5	PO, FS, SR	0

Doc Numbe	Priority	Applicant	Doc ID	Purpose	Qi cfs	Qi gpm	Qa afy	Acres	Source	Total
G4-32247	11/21/1994	Stifter William	2086151	DM		140	4		G	2,788
S4-32249	11/28/1994	Emil Chris	2086153	DM FR	0.4		0.5		S	2,788
S4-32286	2/16/1995	Holmquist Gordon	2085292	DS	0.01		0.5		S	2,789
S4-32331	7/20/1995	Henri & Judith Lavonne Vansomerengrev	2085168	DS	0.02		0.5		S	2,789
S4-32365	9/20/1995	Kuntz John	2084960	DS	0.02		0.5	0	S	2,790
G4-32362	10/3/1995	Watsons Harverene Resort Inc	2084901	DM IR		125	70.5	20	G	2,860
S4-32371	10/16/1995	CARNAHAN HOPE	2084966	DS	0.1		0.5		S	2,861
S4-32373	10/18/1995	MCPHERSON RC GREG	2084968	DS	0.0156		0.5	0.5	S	2,861
S4-32375	10/23/1995	BOUSQUET THOMAS	2084970	DS	0.02		0.5	0.5	S	2,862
S4-32388	12/13/1995	Nolen Nick	2084985	DS	0.022		0.5		S	2,862
S4-32396	12/28/1995	Seal James	2084983	DM IR	0.16		35.5	10	S	2,898
S4-32397	12/28/1995	Seal James	2084984	DS IR	0.15		35.5	10	S	2,933
S4-32407	1/26/1996	Olson Bruce & Sylvia	2084748	DS	0.02		0.5		S	2,934
S4-32408	2/1/1996	Lackner Edward	2084558	DG IR	0.07		4		S	2,938
S4-32410	2/5/1996	Clark Jr Lewis	2084893	DM IR	0.2		35.5	10	S	2,973
S4-32412	2/12/1996	Ives Inez	2084891	DS	0.02		0.5		S	2,974
S4-32413	2/12/1996	M & A Enterprises Inc	2084890	DS	0.02		0.5		S	2,974
S4-32409	3/6/1996	Allen Thomas	2084889	DM IR	0.22		28.5	8	S	3,003
S4-32435	4/1/1996	Tobey Thomas	2075540	DS	0.01		0.5		S	3,003
S4-32436	4/1/1996	Worth William	2075541	DS	0.01		0.5		S	3,004
S4-32457	6/25/1996	Johnson Robert	2075290	DS	0.02		0.5		S	3,004
S4-32462	7/24/1996	Dietrich John	2075295	DS IR	0.02		2.25	0.5	S	3,007
S4-32463	7/24/1996	Dietrich John	2075296	DS IR	0.02		2.25	0.5	S	3,009
S4-32476	9/13/1996	Pauly James	2075309	DS	0.02		0.5		S	3,009
S4-32477	9/16/1996	Van Sickel Fred	2075310	DM	0.04		4		S	3,013
S4-32481	11/1/1996	Mack Mike	2075314	DS IR	0.02		4	1	S	3,017
S4-32482	11/5/1996	Waterville Cabin Association	2075315	DM	0.02		4		S	3,021

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**Summary of New and Active Applications for Water Rights Above Chelan Dam**

Estimated Volume of Proposed Purpose of Use					
Purpose	afy	Purpose	afy	Purpose	afy
Irr (per acre)	3.5	FP	1	CI	1
DM, DG, DS	0.5	HP	0.25	FR	0
Stock	1	RE	5	PO, FS, SR	0

Doc Numbe	Priority	Applicant	Doc ID	Purpose	Qi cfs	Qi gpm	Qa afy	Acres	Source	Total
S4-32484	11/13/1996	Wells C Blick	2075317	DS	0.02		0.5		S	3,022
S4-32490	11/22/1996	Bagdon Robert	2075323	DS	0.02		0.5		S	3,022
S4-32495	12/17/1996	Smolinsky Holly	2075121	DS	0.01		0.5		S	3,023
S4-32496	12/20/1996	Dunn Arthur	2075128	IR	0.02		1.05	0.3	S	3,024
S4-32508	2/10/1997	King Kelly	2075150	DS IR	0.02		0.5		S	3,024
S4-32509	2/11/1997	Cove Owners Moorage Assn	2075151	DM	0.13		4		S	3,028
S4-32511	2/18/1997	Brownfield Michael	2075160	DS IR	0.02		0.5		S	3,029
S4-32535	4/24/1997	Miller Roy	2038484	DS	0.02		0.5		S	3,029
S4-32547	4/30/1997	Smolinsky Holly	2038443	DM	0.02		4		S	3,033
G4-32549	5/7/1997	Gavin Charles	2038446	DM IR		30	4	1	G	3,037
S4-32554	6/10/1997	Chelan River Irr Dist/Isenhardt	2038450	MU	1.4		1016		S	4,053
S4-32560	7/10/1997	Brouner Barbara	2038473	DM IR	0.08		7.5	2	S	4,061
S4-32561	7/10/1997	Brouner Barbara	2038474	DM IR	0.08		7.5	2	S	4,068
S4-32562	7/10/1997	Brouner Barbara	2038475	DM IR	0.08		7.5	2	S	4,076
S4-32587	9/15/1997	Mullen Genette	2032985	DS IR	0.05		2.25	0.5	S	4,078
S4-32588	9/25/1997	Huber Norman	2032986	DS	0.02		0.5		S	4,079
S4-32601	10/28/1997	Riggan & Gebbers	2032913	FR IR SR	4.9		980	280	S	5,059
S4-32607	11/14/1997	Moss Milan	2032926	DM MU	0.05		1		S	5,060
S4-32636	11/26/1997	Little Butte Property Owners As	2032991	DM IR ST	0.267		19	5	S	5,079
S4-32621	1/12/1998	Greer Jim	2032931	DS	0.01		0.5		S	5,079
S4-32619	1/15/1998	Campbell Bruce D & Maria	2032930	DS	2		0.5		S	5,080
S4-32633	2/3/1998	Gebbers Farms Inc*	2032946	FP IR	1.894		427.5	95	S	5,507
S4-32638	2/11/1998	Shreiner Robert	2032970	DS IR	0.02		0.5		S	5,508
S4-32646	2/20/1998	Keiser Family Trust	2033038	DS IR	0.05		35.5	10	S	5,543
S4-32647	2/20/1998	Mellison Rob	2032782	DS IR	0.05		44.11	12.46	S	5,587
S4-32648	2/23/1998	Bailiff Dan	2033037	DS IR	0.04		3.125	0.75	S	5,590
S4-32651	2/27/1998	Baarstad Brian	2032787	DS IR	0.02		0.85	0.1	S	5,591

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Irr (per acre)	3.5	FP	1	CI	1
DM, DG, DS	0.5	HP	0.25	FR	0
Stock	1	RE	5	PO, FS, SR	0

Doc Numbe	Priority	Applicant	Doc ID	Purpose	Qi cfs	Qi gpm	Qa afy	Acres	Source	Total
S4-32658	3/16/1998	Champion Lois	2032801	DS	0.02		0.5		S	5,592
S4-32663	4/1/1998	Campbells Lodge Inc	2032850	IR	0.04		7	2	S	5,599
S4-32670	4/23/1998	Boykin John	2032857	DS	0.02		0.5		S	5,599
S4-32686	6/1/1998	Mattison (deceased) Melvin	2032880	DM IR	0.14		5.75	1.5	S	5,605
S4-32697	6/9/1998	Nash Claudia	2032892	DM	0.05		4		S	5,609
S4-32742	6/29/1998	Barnett Grace	2032687	DS	0.02		0.5		S	5,610
S4-32743	6/29/1998	Barnett Grace	2032688	DS	0.02		0.5		S	5,610
S4-32793	8/24/1998	Anderson Jesse	2032768	DS	0.02		0.5		S	5,611
S4-32794	8/26/1998	Tornow Brian	2032769	DS	5		0.5		S	5,611
G4-32796	9/4/1998	Bear Mountain Ranch Inc	2032770	DM		192.6	4		G	5,615
S4-32799	9/14/1998	Clark William	2032774	IR	0.334		70	20	S	5,685
S4-32800	9/15/1998	Sanfords Inc	2032775	DS	0.02		0.5		S	5,686
S4-32806	9/25/1998	Trustee Barnecut Cabin Property Trust	2032535	DS RE	0.02		5.5		S	5,691
S4-32807	9/25/1998	Trustee Barnecut Cabin Property Trust	2032536	DS RE	0.03		5.5		S	5,697
S4-32808	9/28/1998	Holden Betty	2032537	DS IR	0.02		3.125	0.75	S	5,700
S4-32815	10/19/1998	Little Butte Property Owners As	2032633	DM FR ST	0.01		1.5		S	5,701
S4-32817	10/28/1998	Owens Vicki	2032635	DS	0.01		0.5		S	5,702
G4-32828	12/21/1998	Courtney Clifford	2032645	DM FR IR ST		100	91.1	25.6	G	5,793
S4-32827	12/21/1998	Stehekin Valley Ranch	2032644	DS FS IR ST	0.0557		8.5	2	S	5,801
S4-32829	12/21/1998	Courtney Clifford	2032646	DS FR FS IR PO	0.153		7.85	2.1	S	5,809
S4-32831	1/4/1999	Anderson Kerry	2032392	CI DS IR	0.02		5.75	1.5	S	5,815
S4-32832	1/5/1999	Reid Norman & Betty	2032393	DS FR IR	0.0557		0.57	0.02	S	5,815
S4-32834	1/27/1999	Anderson Michael	2032425	DS	0.02		0.5		S	5,816
S4-32840	2/11/1999	Knott Howard J & Laurie J	2032437	DS IR	0.03		3.125	0.75	S	5,819
S4-32847	3/9/1999	Chelan City	2032463	IR	0.34		53	15	S	5,872
S4-32869	6/7/1999	Eslinger Mike	2032335	DS	0.02		0.5		S	5,873
S4-32872	6/28/1999	Pleyte John	2032337	DS	0.02		0.5		S	5,873

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Irr (per acre)	3.5	FP	1	CI	1
DM, DG, DS	0.5	HP	0.25	FR	0
Stock	1	RE	5	PO, FS, SR	0

Doc Numbe	Priority	Applicant	Doc ID	Purpose	Qi cfs	Qi gpm	Qa afy	Acres	Source	Total
S4-32877	7/16/1999	Butler W Clark	2032342	DS IR	0.02		1.655	0.33	S	5,875
S4-32878	7/20/1999	Martin Ian	2032343	DS	0.03		0.5		S	5,875
S4-32879	8/2/1999	Johnson Terry	2032344	DS	0.011		0.5		S	5,876
S4-32887	9/8/1999	Pleyte John	2032366	DS	0.02		0.5		S	5,876
S4-32894	10/19/1999	Miller Jody	2032370	DS IR	0.02		0.955	0.13	S	5,877
S4-32903	1/24/2000	Wade Carl	2087895	DS	0.011		0.5		S	5,878
S4-32904	1/24/2000	Ward C Bradley	2087896	DS	0.011		0.5		S	5,878
S4-32906	2/1/2000	Goble Gary	2087645	CI DM	0.11		1.5		S	5,880
S4-32907	2/7/2000	Lettenmaier Dennis	2087646	DS	0.02		0.05		S	5,880
S4-32908	2/10/2000	Kelly Jim	2087647	DS	0.011		0.5		S	5,880
S4-32909	3/3/2000	Gunning William	2087648	DS	0.01		0.5		S	5,881
S4-32921	5/24/2000	Henry Paul	2087715	DS	0.01		0.5		S	5,881
S4-32937	12/22/2000	Lust Michael	2087533	DS	0.018		0.5		S	5,882
S4-34525	8/15/2001	Pisco Walter	2087386	DM IR	0.045		4.35	1.1	S	5,886
S4-34544	2/6/2002	Linton Robert	2087208	DS	0.006		0.5		S	5,887
S4-34545	2/6/2002	SMR LLC	2087209	DS	0.006		0.5		S	5,887
S4-34548	3/21/2002	Cargill Jim	2087037	DS	0.02		0.5		S	5,888
S4-34558	5/28/2002	Dainard Robert	2086861	IR	0.0222		0		S	5,888
S4-34576	9/16/2002	Burroughs David	2086956	DM	0.02		4		S	5,892
S4-34907	6/18/2003	Mangold Carl	4155139	DS	0.045		0.5		S	5,892
S4-34923	10/3/2003	Estrada Ralph & Toni	4164659	DS	0.02		1		S	5,893
S4-34929	12/4/2003	Cagliero Louie & Cheryl	4169205	IR	0.04		0.05	0.2	S	5,893
S4-34947	9/8/2004	Querin Oliver	4201983	DS	0.02		2		S	5,895
G4-34950	10/7/2004	Davison Bonnie	4214257	IR ST		6	116.435	178.55	G	6,012
S4-34949	10/7/2004	Davison Bonnie	4214246	IR	0.004		38.69	178.55	S	6,050
S4-35053	3/31/2005	Parkhill Richard	4243538	DS	0.22		1		S	6,051
R4-35039	7/8/2005	Chelan Butte Holdings LLC	4239763	IR	0		48	360	R	6,099

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Purpose	afy	Purpose	afy	Purpose	afy
Irr (per acre)	3.5	FP	1	CI	1
DM, DG, DS	0.5	HP	0.25	FR	0
Stock	1	RE	5	PO, FS, SR	0

Doc Numbe	Priority	Applicant	Doc ID	Purpose	Qi cfs	Qi gpm	Qa afy	Acres	Source	Total
S4-35064	8/5/2005	Harm Sabine	4244221	DS IR	0.03		4.8	0.4	S	6,104
S4-35069	10/6/2005	Thompson Douglas	4248805	DS	0.02		2		S	6,106
S4-35072	10/20/2005	Chelan City	4249172	MU	22.29		3800		S	9,906
G4-35076	11/10/2005	Phelps Donald & Judy	4253756	IR		50	22.5	9	G	9,929
S4-35077	11/22/2005	Wright David	4253807	MU	1		120		S	10,049
S4-35090	4/20/2006	Chelan Cnty PUD 1 *	4270514	<b>PO</b>	5		2707		S	10,049
S4-35092	5/15/2006	Ness Steven & Sheila J	4273023	DS	0.02		<b>0.5</b>	0.5	S	10,049
G4-35098	8/7/2006	Virgil M & Frances M McClosky Trust	4287410	DM		40	20		G	10,069
S4-35103	8/22/2006	John Picken Trust	4289318	DS	0.04		<b>0.5</b>		S	10,070
S4-35104	8/22/2006	John Picken Trust	4289323	DS	0.04		<b>0.5</b>		S	10,070
S4-35102	8/23/2006	Lewis Jeffrey	4289296	DS	15		<b>0.5</b>		S	10,071
G4-35132	12/4/2006	Flynn Cynthia & Charles	4308936	DS		10	15	4	G	10,086
S4-35164	2/11/2008	Congdon Gordon	4485000	DG	3		0.03		S	10,086
S4-35171	4/3/2008	Morehead Hulteen Sandra	4496075	DS	0.005		<b>0.5</b>		S	10,086
S4-35388	7/26/2010	Smith Joan P and J Sam	4690137	DG	0.02		2	1	S	10,088
S4-35398	8/10/2010	Kohr / Merriman	4694001	DS			<b>0.5</b>		S	10,089
S4-33008	8/31/2010	John W Picken Credit Shelter Trust	4706030	DM	25		40		S	10,129
<b>Total</b>						<b>0</b>	<b>0</b>	<b>0</b>		<b>10,129</b>

\* Excluded from Total - Non-Consumptive Use





Summary of Existing Water Rights - WRIA 47 Above Chelan Dam

WRTS download		Active rights, no claims, large users accounted separately and included in total																										
Report Date: 3/17/2014																												
Total Permitted Rights by Date		Balance Remaining																										
before 7/22/1925	14,288	50,712																Large users include:										
1/30/1970	35,547	29,453																Lake Chelan Recl District - Muni				2,672.00						
9/1/1982	42,710	22,290																Lake Chelan Recl District - Irr				22,388.00						
4/29/1992	45,113	19,887																City of Chelan				5,376.14						
4/10/1995	52,243	12,757																RLF Cascade; Beebe Orchards WA				4,098.10						
3/15/2002	53,689	11,311																Bear Mountain Water District and Ranch				2,968.04						
3/17/2014	53,723	11,277																Subtotal Large Users				37,502						
Estimated Exempt Well Rights																			All Other Rights				16,220.62					
200		11,077																	Total				53,722.90					
Estimated Claims																												
4,000		7,077																										
																	underlined = Info changed from WRTS			Irr. Duty			Dom. Use			Stock Use		
																	italized = priority date used			ft/acre			af/connect					
																				3.5			1			1		
File #	Cert #	Person	Stat	Doc	Priority Dt	Purpose	Qi	UOM	Qa	Ir Acres	TRS	QQ/Q	Src's	1stSrc	WRTS Documented	Documented	Estimated			Total								
															Permit Issue Date	Qa	IR use	Dom Use	Stock Use									
S4-SWC458(C)	00458(C)	Shelton Mark	A	SuperCert	4/26/1929	IR	0.02	CFS	4	1	27.0N 22.0E 11	SE/SW	1	LAKE CHELAN	4/26/1929	4	0			4								
S4*02556CWRIS	1542	GREEN-DAVIS SECURITY	A	Cert	4/2/1929	IR	0.5	CFS		30	29.0N 20.0E 36	SW/SW	1	TWENTYFIVE MILE C	9/28/1929	0	105			105								
S4*02681CWRIS	3178	BOULGER J W	A	Cert	8/20/1929	IR	0.6	CFS		30	27.0N 22.0E 13	NW/SE	1	LAKE CHELAN	1/25/1930	0	105			105								
S4-SWC709(B)	00709(B)	Dietrich Delbert	A	SuperCert	2/26/1930	IR	0.08	CFS	24.4	6.1	27.0N 22.0E 11	SE/SW	1	LAKE CHELAN	2/26/1930	24.4	0			24.4								
S4-SWC709(C)	00709(C)	Dietrich Kevin	A	SuperCert	2/26/1930	IR	0.02	CFS		6	27.0N 22.0E 11	SE/SW	1	LAKE CHELAN	2/26/1930	6	0			6								
S4*02214CWRIS	400	CORBIN C W	A	Cert	12/15/1927	IR	0.05	CFS		8	28.0N 22.0E 31		1	LAKE CHELAN	2/27/1930	0	28			28								
S4*01444CWRIS	627	POTTER H A	A	Cert	9/9/1925	IR	0.06	CFS		4	27.0N 22.0E 07		1	LAKE CHELAN	4/19/1930	0	14			14								
S4*02884CWRIS	429	COX GEORGE ET AL	A	Cert	3/17/1930	IR,DS	0.13	CFS		10	27.0N 22.0E 13	NW/SE	1	CHELAN RIVER	6/5/1930	0	35	1		36								
S4*01443CWRIS	2249	PETERSON C A / A W	A	Cert	9/9/1925	IR	1.34	CFS		86	28.0N 21.0E 15		1	LAKE CHELAN	6/14/1930	0	301			301								
S4*02824CWRIS	583	SINES G	A	Cert	1/14/1930	IR	0.22	CFS		10	27.0N 22.0E 13	NW/SE	1	CHELAN RIVER	8/12/1930	0	35			35								
S4*02843CWRIS	474	HUBBARD H F	A	Cert	2/10/1930	PO	5	CFS			32.0N 18.0E 28	SW/SE	1	FISH CREEK	9/23/1930	0	0			0								
S4*02554CWRIS	467	PATTISON T	A	Cert	3/25/1929	IR,DS	0.27	CFS		20	27.0N 22.0E 11		1	LAKE CHELAN	12/1/1930	0	70	1		71								
S4*03161CWRIS	672	CRONK L E	A	Cert	9/19/1930	IR,DS	0.6	CFS		30	27.0N 22.0E 04		1	LAKE CHELAN	1/3/1931	0	105	1		106								
S4*01472CWRIS	1479	PERRY C / R	A	Cert	9/14/1925	IR	0.5	CFS		30	27.0N 22.0E 16		1	LAKE CHELAN	3/2/1931	0	105			105								
S4*03338CWRIS	969	WOOD R E	A	Cert	3/30/1931	PO,IR	0.25	CFS		15	29.0N 20.0E 12	NW/SW	1	CAMAS CREEK	12/31/1931	0	52.5			52.5								
S4*03654CWRIS	1437	GETTY O	A	Cert	6/9/1932	IR,DS	0.25	CFS		3.72	31.0N 18.0E 09		1	RAILROAD CREEK	8/27/1932	0	13.02	1		14.02								
S4*03008CWRIS	1920	WILD C M	A	Cert	6/10/1930	IR,DS	0.2	CFS		10	27.0N 22.0E 16		1	LAKE CHELAN	6/6/1933	0	35	1		36								
S4*01491CWRIS	911	MUNDT J H / R L	A	Cert	9/17/1925	IR,DS	0.15	CFS		10	27.0N 22.0E 07		1	LAKE CHELAN	1/16/1934	0	35	1		36								
S4*04021CWRIS	850	INGALLS C D	A	Cert	8/13/1934	IR,DS	0.12	CFS		4.76	27.0N 22.0E 11		1	LAKE CHELAN	12/3/1934	0	16.66	1		17.66								
S4*02921CWRIS	1091	HOWE SOUND CO	A	Cert	4/7/1930	PO,MI	2	CFS			31.0N 17.0E 18		1	COPPER CREEK	8/22/1935	0	0			0								
S4*04123CWRIS	1617	MUIRHEAD C H	A	Cert	6/12/1935	IR,DM	0.04	CFS		5	29.0N 21.0E 18	N2/N2	1	GRADE CREEK	5/4/1937	0	17.5	0.5		18								
S4*04352CWRIS	1561	VENNEBERG W H	A	Cert	2/18/1937	PO	0.9	CFS			28.0N 21.0E 14	NW/NE	1	JOE CREEK	7/26/1937	0	0			0								
S4*04259CWRIS	1749	USFS Chelan	A	Cert	7/20/1936	IR,DM	0.1	CFS			34.0N 16.0E 21		1	CLEAR CREEK	9/23/1937	0	0	2		2								
S4*04766CWRIS	1383	USFS	A	Cert	3/24/1939	PO,IR	0.1	CFS		5	31.0N 19.0E 32		1	PRINCE CREEK	6/15/1939	0	17.5			17.5								
S4*04809CWRIS	1750	USFS Chelan	A	Cert	3/3/1939	IR,FR	0.5	CFS		3	31.0N 18.0E 09		1	RAILROAD CREEK	9/6/1939	0	10.5			10.5								
S4*05034CWRIS	1350	USFS	A	Cert	12/5/1939	DM	0.01	CFS			29.0N 21.0E 34	NE/NE	1	SKOOKUM CREEK	5/4/1940	0	0	3		3								
S4*05116CWRIS	2376	MUNDT J H	A	Cert	3/28/1940	PO,IR	0.15	CFS		2	32.0N 18.0E 06		1	HAZARD CREEK	1/21/1942	0	7			7								
S4*05040CWRIS	2370	IMUS G R	A	Cert	12/13/1939	IR,DS	0.1	CFS		5	33.0N 17.0E 25	NE/SW	1	LITTLE BOULDER CR	9/22/1942	0	17.5	1		18.5								
S4*05093CWRIS	2140	IMUS G C / G R	A	Cert	2/27/1940	IR,DS	0.01	CFS			33.0N 18.0E 31	NW/SE	1	UNNAMED STREAM	9/22/1942	0	0	1		1								
S4*05520CWRIS	7340	BUCKNER H S	A	Cert	7/22/1941	PO,IR	0.25	CFS	160	40	33.0N 17.0E 25	NE/NW	1	BOULDER CREEK	10/2/1942	160	0			160								
S4*05079CWRIS	1908	BLANKENSHIP E O	A	Cert	2/16/1940	PO	0.1	CFS			33.0N 18.0E 31	SW/SE	1	PURPLE CREEK	1/25/1943	0	0			0								
S4*05874CWRIS	1989	HOWE SOUND CO	A	Cert	7/21/1943	MI	2	CFS			31.0N 17.0E 07		1	RAILROAD CREEK	12/17/1943	0	0			0								
S4*06017CWRIS	3047	PETERSON A W	A	Cert	5/3/1944	PO,IR	8.52	CFS		9	33.0N 17.0E 22		1	COMPANY CREEK	2/12/1945	0	31.5			31.5								
S4-CV2P856	2397	Wells & Wade Fruit Co Inc	A	CertChg	4/9/1945	IR,DG	0.88	CFS		70	28.0N 21.0E 34		1	LAKE CHELAN	4/9/1945	0	245	1		246								
S4*06243CWRIS	2507	BROWN T T / G	A	Cert	11/20/1944	IR,DS	0.01	CFS		1	29.0N 20.0E 25	SW/SW	1	UNNAMED STREAM	11/10/1945	0	3.5	1		4.5								
S4*06098CWRIS	4122	GOSS E M	A	Cert	8/7/1944	PO	15	CFS			31.0N 18.0E 10		1	RAILROAD CREEK	4/2/1946	0	0			0								
S4*07147CWRIS	2767	MILLER P E	A	Cert	5/20/1946	PO,IR	0.2	CFS		2.5	33.0N 18.0E 31	SW/SE	1	PURPLE CREEK	8/6/1946	0	8.75			8.75								
S4*07017CWRIS	3458	HALE R	A	Cert	4/1/1946	PO,IR	2	CFS		40	28.0N 20.0E 03		1	TWENTYFIVE MI CR	8/8/1947	0	140			140								
CS4-SWC4525	4525	Burnett Tom	A	Chng/ROE	8/15/1947	MU	0.25	CFS	93.05		29.0N 21.0E 20	SW/SW	1	LAKE CHELAN	8/15/1947	93.05	0			93.05								
S4*08655ALCWRIS	03867A	VANDOREN A	A	Cert	12/8/1948	DS	0.01	CFS			28.0N 21.0E 34		2	LAKE CHELAN	5/9/1949	0	0	1		1								
S4*08651CWRIS	5043	EMERSON R D	A	Cert	11/29/1948	IR,DS	0.25	CFS		20	27.0N 22.0E 04		1	LAKE CHELAN	4/13/1950	0	70	1		71								
S4*08372CWRIS	4812	GARTON A	A	Cert	5/4/1948	IR,DS	0.05	CFS		4	27.0N 22.0E 16		1	LAKE CHELAN	5/3/1950	0	14	1		15								
S4*09907CWRIS	4011	GAHRINGER J E	A	Cert	9/19/1950	RE,DM	0.05	CFS			28.0N 21.0E 32	NE/NE	1	GRANITE FALLS CRE	2/1/1951	0	0	12		12								
S4*10029CWRIS	4048	HARTLEY R A	A	Cert	12/12/1950	DS	0.01	CFS			28.0N 21.0E 27		1	LAKE CHELAN	3/28/1951	0	0	1		1								
S4*09927CWRIS	4511	GAVIN W B	A	Cert	9/28/1950	IR	0.34	CFS	100	25	27.0N 22.0E 04		1	LAKE CHELAN	3/30/1951	100	0			100								
S4*12164CWRIS	5434	MCKENZIE D	A	Cert	3/16/1953	DS	0.01	CFS			28.0N 22.0E 32		1	UNNAMED SPRING	8/10/1953	0	0	1		1								
S4*12390CWRIS	5466	VEROSKE W R	A	Cert	6/5/1953	IR	0.25	CFS		11	27.0N 22.0E 05		1	LAKE CHELAN	8/17/1953	0	38.5			38.5								
CS4-SWC5891	5891	Tuscan Properties LLC	A	Chng/ROE	10/9/1953	IR,DM	0.78	CFS	216		27.0N 22.0E 16		3	LAKE CHELAN	10/9/1953	216	0			216								
CS4-SWC6910@1	6910	Tuscan Properties LLC	A	Chng/ROE	3/30/1955	IR,DS	0.41	CFS	119		27.0N 22.0E 16		2	LAKE CHELAN	3/30/1955	119	0			119								
S4*13208CWRIS	6859	SCHERTEL S E	A	Cert	12/7/1954	IR,DS	0.07	CFS		12	28.0N 21.0E 09		1	LAKE CHELAN	4/15/1955	12	0			12								
G4*03876CWRIS	2258	GRIFFITH J W	A	Cert	2/16/1955	IR,DM	100	GPM	63.2	13	28.0N 22.0E 29	NW/SW	1	WELL	5/27/1955	63.2	0			63.2								
S4*13260CWRIS	7227	CARROLL D M	A	Cert	1/18/1955	IR	0.24	CFS	60	12	27.0N 22.0E 04		1	LAKE CHELAN	5/31/1955	60	0			60								
S4*13744CWRIS	6501	COX T	A	Cert	2/20/1956	IR	0.03	CFS	8	2	27.0N 22.0E 13	NW/SE	1	LAKE CHELAN	5/17/1956													





Summary of Existing Water Rights - WRIA 47 Above Chelan Dam

WRTS download		Active rights, no claims, large users accounted separately and included in total																																							
Report Date: 3/17/2014																																									
Total Permitted Rights by Date		Balance Remaining																				Large users include:																			
before 7/22/1925	14,288	50,712																				Lake Chelan Recl District - Muni		2,672.00																	
1/30/1970	35,547	29,453																				Lake Chelan Recl District - Irr		22,388.00																	
9/1/1982	42,710	22,290																				City of Chelan		5,376.14																	
4/29/1992	45,113	19,887																				RLF Cascade; Beebe Orchards WA		4,098.10																	
4/10/1995	52,243	12,757																				Bear Mountain Water District and Ranch		2,968.04																	
3/15/2002	53,689	11,311																				Subtotal Large Users		37,502																	
3/17/2014	53,723	11,277																				All Other Rights		16,220.62																	
Estimated Exempt Well Rights		200																				Total		53,722.90																	
Estimated Claims		4,000																																							
		7,077																																							



Summary of Existing Water Rights - WRIA 47 Above Chelan Dam

WRTS download Report Date: 3/17/2014		Active rights, no claims, large users accounted separately and included in total																									
Total Permitted Rights by Date		Balance Remaining		Large users include:																							
before 7/22/1925	14,288	50,712		Lake Chelan Recl District - Muni													2,672.00										
1/30/1970	35,547	29,453		Lake Chelan Recl District - Irr													22,388.00										
9/1/1982	42,710	22,290		City of Chelan													5,376.14										
4/29/1992	45,113	19,887		RLF Cascade; Beebe Orchards WA													4,098.10										
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Estimated Exempt Well Rights		200		Total													53,722.90										
Estimated Claims		4,000																									
		7,077																									
																underlined = Info changed from WRTS			Irr. Duty			Dom. Use			Stock Use		
																italized = priority date used			ft/acre			af/connect					
																			3.5			1			1		
File #	Cert #	Person	Stat	Doc	Priority Dt	Purpose	Qi	UOM	Qa	Ir Acres	TRS	QQ/Q	Src's	1stSrc	WRTS Documented Permit Issue Date	Documented Qa	IR use	Dom Use	Stock Use	Total							
S4-23534CWRIS		HANSEN EDGAR V	A	Cert	9/25/1974	DM	0.02	CFS	2		27.0N 22.0E 08	SE/SE	1	LAKE CHELAN	3/10/1976	2	0			2							
S3-+21273CWRIS		HAGGERTY WM D & V F	A	Cert	6/11/1973	DM	0.13	CFS	4		27.0N 21.0E 12	SE/SE	1	LAKE CHELAN	4/7/1976	4	0			4							
S4-24139CWRIS		MACK ELIZABETH B	A	Cert	11/17/1975	DM	0.06	CFS	3		28.0N 21.0E 09		1	LAKE CHELAN	4/7/1976	3	0			3							
S4-23641CWRIS		GARRETSON HELEN H	A	Cert	6/21/1974	DM	0.06	CFS	3		27.0N 22.0E 05		1	LAKE CHELAN	6/14/1976	3	0			3							
S4-23828CWRIS		VEROSKE WILLIAM R	A	Cert	6/26/1974	IR_DS	0.02	CFS	4	1	27.0N 22.0E 05		1	LAKE CHELAN	6/14/1976	4	0			4							
G4-23827CWRIS		VEROSKE WILLIAM R	A	Cert	6/26/1974	IR	20	GPM	8	2	27.0N 22.0E 05		1	INFILTRATION TREN	6/22/1976	8	0			8							
S4-24214CWRIS		Sunnybank Community Assn	A	Cert	3/5/1976	DM	0.045	CFS	27		27.0N 21.0E 12	SW/NW	1	LAKE CHELAN	6/22/1976	27	0			27							
S4-24061CWRIS		BACHARACH BERNICE	A	Cert	9/8/1975	IR_DS	0.08	CFS	14	3	29.0N 21.0E 33		1	LAKE CHELAN	7/8/1976	14	0			14							
S4-24288CWRIS		BARTON EUGENE D	A	Cert	5/3/1976	DS	0.02	CFS	1		28.0N 21.0E 03	SE/SW	1	LAKE CHELAN	9/14/1976	1	0			1							
S4-24272CWRIS		OZEROFF WILLIAM ETUX	A	Cert	4/23/1976	DS	0.01	CFS	1		29.0N 21.0E 34	SE/SE	1	LAKE CHELAN	9/16/1976	1	0			1							
S4-24149CWRIS		ROBISON ERNEST G	A	Cert	10/22/1975	DM	0.11	CFS	7		29.0N 20.0E 24		2	LAKE CHELAN	10/5/1976	7	0			7							
S3-+22326CWRIS		D & G Peterson Orchards	A	Cert	1/3/1974	DM	0.04	CFS	4		28.0N 21.0E 15		1	LAKE CHELAN	5/20/1977	4	0			4							
S4-24363CWRIS		BEEBE JOHN R	A	Cert	8/2/1976	WL_IR	0.11	CFS	10	2	28.0N 22.0E 28	NW/NW	1	UNNAMED SPRING	10/11/1977	10	0			10							
S4-24503CWRIS		Babcock Allen A	A	Cert	1/12/1977	IR_DS	0.04	CFS	4	1	28.0N 21.0E 03	SE/SW	1	LAKE CHELAN	10/13/1977	4	0			4							
S4-25651NWRIS		Chelan River Irrigation District	A	Cert	11/9/1977	FR_DM	0.78	CFS	156	39	27.0N 22.0E 13		1	LAKE CHELAN	8/15/1978	156	0			0							
S4-25522GWRIS		HENDERSON H M ETUX	A	Cert	9/15/1977	IR_DS	0.08	CFS	13	3.5	29.0N 20.0E 12		1	LAKE CHELAN	8/22/1978	13	0			13							
S4-25730CWRIS		RUSSELL DEAN	A	Cert	1/20/1978	DM	0.04	CFS	4.5		28.0N 21.0E 23	NE/NE	1	UNNAMED SPRING	9/18/1978	4.5	0			4.5							
S4-25036CWRIS		HIBBARD LARRY E	A	Cert	3/23/1977	PO	1.5	CFS			28.0N 21.0E 14	SE/NW	1	JOE CREEK	10/10/1978	0	0			0							
G4-25422CWRIS		BROWN C RODGER	A	Cert	8/2/1977	ST_IR	80	GPM	26	4	28.0N 22.0E 28	SW/NW	1	WELL	11/27/1978	26	0			26							
G4-25762NWRIS		WA PARKS	A	Cert	2/16/1978	IR_DM	20	GPM	19	2	29.0N 21.0E 30	SE/NW	1	WELL	12/11/1978	19	0			19							
S4-25982CWRIS		MCFADDEN DONALD M	A	Cert	9/1/1978	DS	0.02	CFS	1		27.0N 22.0E 08	NW/SW	1	LAKE CHELAN	2/15/1979	1	0			1							
S4-26031CWRIS		SHILDMYER ROBERT E	A	Cert	10/27/1978	DS	0.02	CFS	2		28.0N 21.0E 16	NW/SW	1	LAKE CHELAN	3/16/1979	2	0			2							
S4-26055CWRIS		DAVIS HARVEY ET UX	A	Cert	11/15/1978	DM	0.02	CFS	2		28.0N 21.0E 21		1	LAKE CHELAN	3/16/1979	2	0			2							
S4-26084CWRIS		SIRMON GARY L ET UX	A	Cert	1/10/1979	DS	0.02	CFS	1		28.0N 21.0E 09		1	LAKE CHELAN	5/2/1979	1	0			1							
CS4-26336C		Mattison Mary	A	Chng/ROE	7/16/1979	IR_DM	0.02	CFS	5		27.0N 22.0E 07		1	LAKE CHELAN	7/16/1979	5	0			5							
S4-26412GWRIS		MATTHEWS DELROY	A	Cert	10/3/1979	IR	0.014	CFS	5.8	3	27.0N 21.0E 25		1	UNNAMED SPRING	10/3/1979	5.8	0			5.8							
CS4-26615C(B)		Allen Tom	A	Chng/ROE	3/28/1980	DM	0.4	CFS	0.66		28.0N 21.0E 17		2	LAKE CHELAN	3/28/1980	0.66	0			0.66							
CS4-26615C(A)		Yates James	A	Chng/ROE	3/28/1980	DM	0.04	CFS	0.66		28.0N 21.0E 17	SE/NE	2	LAKE CHELAN	3/28/1980	0.66	0			0.66							
S4-27235C		DUEROCK ROY	A	Cert	1/13/1981	DS	0.01	CFS	1		28.0N 22.0E 03	SW/NE	1	UNNAMED SPRING	1/13/1981	1	0			1							
S4-26482CWRIS		Star Motors & Mobile Homes	A	Cert	11/29/1979	DS	0.01	CFS	1		29.0N 21.0E 33		1	LAKE CHELAN	2/3/1981	1	0			1							
S4-26483CWRIS		Star Motors & Mobile Homes	A	Cert	11/29/1979	DS	0.01	CFS	1		29.0N 21.0E 33		1	LAKE CHELAN	2/3/1981	1	0			1							
S4-27018AKTCWRIS		USFS	A	Cert	8/13/1980	ST	0.002	CFS	0.74		30.0N 21.0E 25	E2/SW	1	UNNAMED SPRING	2/11/1981	0.74	0			0.74							
S4-27019CWRIS		USFS	A	Cert	8/13/1980	ST	0.001	CFS	0.42		29.0N 20.0E 01	SE/SE	1	UNNAMED SPRING	2/11/1981	0.42	0			0.42							
S4-27020AKXCWRIS		USFS	A	Cert	8/13/1980	ST	0.002	CFS	0.69		30.0N 20.0E 23	W2/NE	1	COYOTE SPRING	2/11/1981	0.69	0			0.69							
S4-27040CWRIS		USFS	A	Cert	9/2/1980	ST	0.001	CFS	0.36		29.0N 22.0E 30	NW/NE	1	UNNAMED SPRING	2/11/1981	0.36	0			0.36							
S4-26311CWRIS		SEIDENSTICKER JAMES	A	Cert	7/30/1979	DM	0.05	CFS	0.5		28.0N 21.0E 03	SE/SW	1	LAKE CHELAN	5/8/1981	0.5	0			0.5							
S4-26370GWRIS		MATTIS WILLIAM L	A	Cert	8/22/1979	IR_DS	0.02	CFS	1.25	0.5	28.0N 21.0E 03	SE/SW	1	LAKE CHELAN	5/8/1981	1.25	0			1.25							
G4-26492GWRIS		CHASE HARRY A ET UX	A	Cert	12/10/1979	IR_DS	10	GPM	4	0.6	28.0N 22.0E 33		1	WELL	5/8/1981	4	0			4							
G4-27530GWRIS		CLARK ERNEST W	A	Cert	6/22/1981	ST_IR	40	GPM	33	10	28.0N 22.0E 23	SW/SW	2	WELL	6/22/1981	33	0			33							
G4-26255GWRIS		SEIDENSTICKER J A	A	Cert	6/4/1979	IR_DS	4	GPM	3.5	2	28.0N 22.0E 28	NW/NE	1	WELL	2/8/1982	3.5	0			3.5							
S4-27369CWRIS		WALTON DON G	A	Cert	3/12/1981	DS	0.02	CFS	1.5		29.0N 21.0E 20		1	LAKE CHELAN	2/8/1982	1.5	0			1.5							
S4-27386CWRIS		BENN DON M ET UX	A	Cert	3/20/1981	DS	0.02	CFS	1.5		29.0N 20.0E 24		1	LAKE CHELAN	2/8/1982	1.5	0			1.5							
S4-26616		Ferche Ludwig	A	Pmt	3/31/1980	DM	0.25	CFS	181		28.0N 21.0E 16		1	LAKE CHELAN	2/14/1982	181	0			181							
S4-27222CWRIS		CARVER JAMES B	A	Cert	12/17/1980	DS	0.02	CFS	1.5		28.0N 21.0E 33		1	LAKE CHELAN	2/16/1982	1.5	0			1.5							
G4-26555GWRIS		D Bartram Estate	A	Cert	2/15/1980	IR_DS	15	GPM	5.5	1	27.0N 22.0E 11	SW/NE	1	WELL	2/19/1982	5.5	0			5.5							
G4-26073		Henderson Dan	A	Cert	1/22/1979	IR_DM	30	GPM	14.6	4	28.0N 22.0E 27	SW/SE	1		3/1/1982	14.6	0			14.6							
G4-26110GWRIS		KREPCIK ROBERT ET UX	A	Cert	1/25/1979	IR_DS	30	GPM	9.8	2.3	28.0N 22.0E 27	SW/SE	1	WELL	3/1/1982	9.8	0			9.8							
S4-26918AKTCWRIS		USFS	A	Cert	7/11/1980	ST	0.006	CFS	2.36		29.0N 22.0E 27	NE/SW	1	UNNAMED SPRING	4/23/1982	2.36	0			2.36							
S4-26911AKTCWRIS		USFS	A	Cert	7/11/1980	ST	0.001	CFS	2.36		29.0N 22.0E 07	SE/NW	1	UNNAMED SPRING	4/23/1982	2.36	0			2.36							
S4-26912CWRIS		USFS	A	Cert	7/11/1980	ST	0.001	CFS	0.42		28.0N 22.0E 14	NE/NE	1	UNNAMED SPRING	4/23/1982	0.42	0			0.42							
S4-26913AKXCWRIS		USFS	A	Cert	7/11/1980	ST	0.001	CFS	1.18		28.0N 22.0E 02	SE/NW	1	UNNAMED SPRING	4/23/1982	1.18	0			1.18							
S4-26914CWRIS		USFS	A	Cert	7/11/1980	ST	0.001	CFS	0.4		29.0N 22.0E 34	SW/SE	1	UNNAMED SPRING	4/23/1982	0.4	0			0.4							
S4-26915CWRIS		USFS	A	Cert	7/11/1980	ST	0.001	CFS	0.4		28.0N 22.0E 10	NW/NW	1	UNNAMED SPRING	4/23/1982	0.4	0			0.4							
S4-26916CWRIS		USFS	A	Cert	7/11/1980	ST	0.001	CFS	0.4		29.0N 22.0E 34	SW/SW	1	EAST FORK JOE CRE	4/23/1982	0.4	0			0.4							
S4-26917CWRIS		USFS	A	Cert	7/11/1980	ST	0.001	CFS	0.4		28.0N 22.0E 08	NW/NW	1	EAST FORK JOE CRE	4/23/1982	0.4	0			0.4							
S4-26919CWRIS		USFS	A	Cert	7/11/1980	ST	0.001	CFS	0.4		29.0N 22.0E 31	SE/SE	1	UNNAMED SPRING	4/23/1982	0.4	0			0.4							
S4-27021CWRIS		USFS	A	Cert	8/13/1980	DM	0.034	CFS	1		30.0N 20.0E 09	SE/SE	1	S NAVARRE SPR *	4/23/1982	1	0			1							

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Report Date: 3/17/2014																						
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9/1/1982	42,710	22,290	<b>Lake Chelan Recl District - Irr</b>																<b>22,388.00</b>			
4/29/1992	45,113	19,887	<b>City of Chelan</b>																<b>5,376.14</b>			
4/10/1995	52,243	12,757	<b>RLF Cascade; Beebe Orchards WA</b>																<b>4,098.10</b>			
3/15/2002	53,689	11,311	<b>Bear Mountain Water District and Ranch</b>																<b>2,968.04</b>			
3/17/2014	53,723	11,277	<b>Subtotal Large Users</b>																<b>37,502</b>			
<b>Estimated Exempt Well Rights</b>		<b>All Other Rights</b>																<b>16,220.62</b>				
<b>200</b>		<b>11,077</b>																<b>53,722.90</b>				
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<b>4,000</b>		<b>7,077</b>																				
																		underlined =	Info changed from WRTS	Irr. Duty	Dom. Use	Stock Use
																		italicized =	priority date used	ft/acre	af/connect	
																				<b>3.5</b>	<b>1</b>	<b>1</b>
File #	Cert #	Person	Stat	Doc	Priority Dt	Purpose	Qi	UOM	Qa	Ir Acres	TRS	QQ/Q	Src's	1stSrc	WRTS Documented	Documented	Estimated			Total		
															Permit Issue Date	Qa	IR use	Dom Use	Stock Use			
S4-27303		Courtney Cragg	A	Pmt	2/10/1981	IR_DS	0.05	CFS	11	5	33.0N 17.0E 25		1	LITTLE BOULDER CR	5/10/1982	11	0			11		
S4-27126CWRIS		SWARTZ EDGAR ET UX	A	Cert	10/16/1980	IR_DM	0.14	CFS	13	3	31.0N 18.0E 03	NW/NW	1	UNNAMED SPRING	5/19/1982	13	0			13		
S4-26920AKTCWRIS		USFS	A	Cert	7/11/1980	ST	0.001	CFS	1.18		29.0N 22.0E 29	NW/SW	1	UNNAMED SPRING	5/28/1982	1.18	0			1.18		
S4-27015CWRIS		USFS	A	Cert	8/13/1980	ST	0.002	CFS	0.73		29.0N 22.0E 31	NW/SE	2	UNNAMED SPRING	5/28/1982	0.73	0			0.73		
S4-27016CWRIS		USFS	A	Cert	8/13/1980	ST	0.001	CFS	0.4		29.0N 21.0E 08	SE/SW	1	UNNAMED SPRING	5/28/1982	0.4	0			0.4		
S4-27017ABBCWRIS		USFS	A	Cert	8/13/1980	ST	0.004	CFS	1.58		30.0N 21.0E 27	N2/NW	2	POISON CR SPR	5/28/1982	1.58	0			1.58		
S4-27022CWRIS		USFS	A	Cert	8/13/1980	IR	0.015	CFS	4.5	3	32.0N 18.0E 28	SE/SW	1	FISH CREEK	5/28/1982	4.5	0			4.5		
G4-27041CWRIS		USFS	A	Cert	9/2/1980	DM	1.4	GPM	2.25		31.0N 18.0E 10	S2/NW	1	WELL	5/28/1982	2.25	0			2.25		
S4-27042CWRIS		USFS	A	Cert	9/2/1980	IR_DM	0.061	CFS	25.3	10	31.0N 18.0E 10	SW/NW	1	LAKE CHELAN	5/28/1982	25.3	0			25.3		
S4-27043ABBCWRIS		USFS	A	Cert	9/2/1980	WL_ST	0.0033	CFS	2.38		28.0N 20.0E 01		3	BEAVER SPRING	5/28/1982	2.38	0			2.38		
S4-27045CWRIS		USFS	A	Cert	9/2/1980	ST	0.0003	CFS	0.08		29.0N 20.0E 25	NE/NE	1	UNNAMED SPRING	5/28/1982	0.08	0			0.08		
S4-27044CWRIS		USFS Wenatchee *	A	Cert	9/2/1980	FR_DS	0.05	CFS	15.3	5	29.0N 20.0E 31	NE/SE	1	LAKE CHELAN	5/28/1982	15.3	0			15.3		
S4-27129CWRIS		USFS	A	Cert	10/17/1980	DM	0.001	CFS	0.36		29.0N 20.0E 27	NE/NE	1	GROUSE MOUNTAIN S	5/28/1982	0.36	0			0.36		
S4-27132CWRIS		USFS	A	Cert	10/17/1980	DM	0.0005	CFS	0.12		29.0N 19.0E 25	NE/SW	1	HANDY SPRING	5/28/1982	0.12	0			0.12		
S4-27575CWRIS		USFS	A	Cert	7/30/1981	ST	0.001	CFS	0.24		29.0N 21.0E 31	NE/NW	1	UNNAMED SPRING	6/2/1982	0.24	0			0.24		
S4-27424CWRIS		BROWN DOUGLAS A	A	Cert	4/20/1981	DS	0.045	CFS	4		28.0N 21.0E 28		1	LAKE CHELAN	6/14/1982	4	0			4		
S4-27467CWRIS		LAFFERTY DELLA M	A	Cert	5/6/1981	DS	0.07	CFS	2		27.0N 22.0E 15	SE/SE	1	UNNAMED SPRING	6/14/1982	2	0			2		
S4-26171		North Fork Water Users	A	Pmt	3/2/1979	IR_DM	0.9	CFS	125	40	28.0N 20.0E 03		1	NORTH FORK TWENTY	6/28/1982	125	0			125		
S4-27439GWRIS		Chelan Hills Maintenance Ass	A	Cert	4/27/1981	IR	0.02	CFS	3.2	0.8	27.0N 22.0E 03	SW/SW	1	LAKE CHELAN	6/28/1982	3.2	0			3.2		
G4-27176GWRIS		MCNALLY ET AL	A	Cert	11/6/1980	IR_DM	10	GPM	7.5	1.5	27.0N 22.0E 21	SW/NE	1	WELL	8/3/1982	7.5	0			7.5		
G4-27247GWRIS		LESMEISTER ROBT R	A	Cert	1/15/1981	IR_DS	15	GPM	4.4	1	28.0N 22.0E 18		1	WELL	8/30/1982	4.4	0			4.4		
G4-25019GWRIS		BEEBE JOHN R	A	Cert	1/13/1977	IR_DM	15	GPM	5	1	28.0N 22.0E 28		1	WELL	9/27/1982	5	0			5		
S4-27731CWRIS		PARKER WILLIAM W	A	Cert	9/23/1981	DS	0.02	CFS	1		27.0N 22.0E 04		1	LAKE CHELAN	10/29/1982	1	0			1		
S4-27462CWRIS		VENNEBERG GEORGE O	A	Cert	4/14/1981	IR	0.08	CFS	15.6	4	27.0N 21.0E 12	SW/SE	1	LAKE CHELAN	12/3/1982	15.6	0			15.6		
S4-27645CWRIS		GOEHRY JACOB M	A	Cert	9/8/1981	DS	0.01	CFS	1		27.0N 22.0E 17	NW/NE	1	LAKE CHELAN	12/28/1982	1	0			1		
S4-27886CWRIS		JOHNSON ERVIN A	A	Cert	4/5/1982	DS	0.02	CFS	2		27.0N 22.0E 17	NW/NE	1	LAKE CHELAN	12/28/1982	2	0			2		
S4-27640CWRIS		EARLEY JOHN H	A	Cert	9/4/1981	DS	0.01	CFS	1		28.0N 21.0E 09		1	LAKE CHELAN	1/7/1983	1	0			1		
G4-27848GWRIS		HALE CARL D	A	Cert	3/2/1982	IR_DS	25	GPM	8	3	29.0N 20.0E 23	NE/SE	1	INFILTRATION TREN	1/26/1983	8	0			8		
S4-27753CWRIS		LOUDON MERLE E	A	Cert	10/29/1981	DS	0.02	CFS	1		28.0N 21.0E 21		1	LAKE CHELAN	1/31/1983	1	0			1		
S4-27613CWRIS		FLETCHER MERNA P	A	Cert	8/25/1981	DS	0.02	CFS	1		27.0N 22.0E 16	SE/NW	1	LAKE CHELAN	2/1/1983	1	0			1		
S4-27614CWRIS		WELLS/WELLS	A	Cert	8/25/1981	DS	0.02	CFS	1		27.0N 22.0E 16	SE/NW	1	LAKE CHELAN	2/1/1983	1	0			1		
G4-27382		Gebbers Farms Inc*	A	Pmt	3/17/1981	IR_DS	80	GPM	43.5	12	28.0N 22.0E 22		1	WELL	3/25/1983	43.5	0			43.5		
S4-27981CWRIS		BLOMGREN/BOWMAN	A	Cert	7/14/1982	DS	0.02	CFS	1		29.0N 21.0E 34		1	LAKE CHELAN	3/25/1983	1	0			1		
G4-26259CWRIS		POMEROY FRED L	A	Cert	6/8/1979	IR_DM	20	GPM	4	0.5	28.0N 22.0E 33	NE/SE	1	WELL	4/7/1983	4	0			4		
S4-28078CWRIS		MCQUAIG JOHN D	A	Cert	11/1/1982	DS	0.0022	CFS	0.8		28.0N 21.0E 28	NE/NE	1	LAKE CHELAN	8/3/1983	0.8	0			0.8		
G4-27907		Santana Ranch Owners Assn	A	Pmt	4/26/1982	DM	120	GPM	14		28.0N 22.0E 18		2	WELL	9/2/1983	14	0			14		
S4-27887		Picken (John Picken Trust)	A	Pmt	3/29/1982	PO	0.9	CFS			28.0N 21.0E 15		1	GREEN'S LANDING C	11/21/1983	0	0			0		
S4-28359GWRIS		DEBAR ORCHARDS INC	A	Cert	12/19/1983	IR_DS	0.0176	CFS	3	0.5	27.0N 22.0E 03	NW/SW	1	UNNAMED SPRING	5/29/1984	3	0			3		
S4-28084GWRIS		King Chelan Orchards	A	Cert	11/9/1982	IR_DM	0.67	CFS	92.5	25	28.0N 21.0E 08	SE/NE	1	UNNAMED SPRING	6/4/1984	92.5	0			92.5		
S4-28158CWRIS		YOUNG SHERMAN	A	Cert	3/3/1983	DM	0.054	CFS	2		28.0N 21.0E 24	NE/NW	1	UNNAMED SPRING	6/4/1984	2	0			2		
S4-28318CWRIS		KNEISLEY PHILIP	A	Cert	10/18/1983	DS	0.023	CFS	1		29.0N 21.0E 33		1	LAKE CHELAN	8/3/1984	1	0			1		
S4-28212CWRIS		BARNHART M & N	A	Cert	5/18/1983	PO	1.15	CFS			32.0N 18.0E 17		1	FLICK CREEK	8/21/1984	0	0			0		
G4-28286		USFS Wenatchee *	A	Pmt	8/23/1983	IR_DM	70	GPM	66.5	20	29.0N 21.0E 33		1	WELL	10/15/1984	66.5	0			66.5		
S4-28387CWRIS		PACE CHARLES E	A	Cert	1/30/1984	DS	0.02	CFS	2		28.0N 22.0E 32	W2/NW	1	UNNAMED SPRING	12/3/1984	2	0			2		
S4-28386GWRIS		PACE CHARLES E	A	Cert	1/30/1984	IR	0.06	CFS	10.2	3	28.0N 22.0E 32	W2/NW	1	UNNAMED STREAM	1/7/1985	10.2	0			10.2		
S4-28741CWRIS		US Dept Interior/Bureau Land	A	Cert	7/18/1985	WL_ST	0.02	CFS	0.67		27.0N 22.0E 27	SE/NE	1	UNNAMED SPRING	1/15/1985	0.67	0			0.67		
S4-28531CWRIS		EASTER DOUGLAS	A	Cert	9/6/1984	DS	0.023	CFS	1		29.0N 20.0E 34		1	LAKE CHELAN	3/11/1985	1	0			1		
S4-28528		Shaw Jack	A	Pmt	9/4/1984	IR_DM	0.02	CFS	7.1	1.5	27.0N 22.0E 03		1	UNNAMED SPRING	6/17/1985	7.1	0			7.1		
S4-27422CWRIS		MATZ/HALL	A	Cert	4/14/1981	DS	0.02	CFS	2		27.0N 21.0E 04	NW/SW	1	FIRST CREEK	7/9/1985	2	0			2		
CS4-28760C		Cove Owners Moorage Assn	A	Chng/ROE	8/1/1985	IR_DM	0.13	CFS	18.8	4	28.0N 21.0E 20	SE/SE	2	LAKE CHELAN	8/1/1985	18.8	0			18.8		
S4-28801C		Lindner Douglas	A	Cert	9/26/1985	DS	0.02	CFS	2		29.0N 21.0E 19		1	LAKE CHELAN	9/26/1985	2	0			2		
S4-28529GWRIS		MILLER MARK	A	Cert	9/5/1984	IR_FR	0.2	CFS	55	15	31.0N 19.0E 18	NW/SW	1	PIONEER CREEK	12/31/1985	55	0			55		
S4-28751		Halladay Nik	A	Pmt	7/23/1985	DS	0.011	CFS	1		27.0N 22.0E 16		1	LAKE CHELAN	12/31/1985	1	0			1		
S4-28678CWRIS		Realadyne Investments Inc	A	Cert	5/2/1985	DM	0.088	CFS	16		27.0N 21.0E 12	NE/SW	1	LAKE CHELAN	1/15/1986	16	0			16		
S4-28742CWRIS		US Dept Interior/Bureau Land	A	Cert	7/18/1985	WL_ST	0.02	CFS	0.67		27.0N 22.0E 26	NE/NW	1	UNNAMED SPRING	1/15/1986	0.67	0			0.67		
S4-28																						









Summary of Existing Water Rights - WRIA 47 Above Chelan Dam

File #	Cert #	Person	Stat	Doc	Priority Dt	Purpose	Qi	UOM	Qa	Ir Acres	TRS	QQ/Q	Src's	1stSrc	WRTS Documented Permit Issue Date	Documented Qa	IR use	Estimated Dom Use	Stock Use	Total
S4-30825CWRIS		TUCKER D & S	A	Cert	6/17/1991	DS	0.011	CFS	0.5		27.0N 22.0E 08	SW/SW	1	LAKE CHELAN	12/13/1991	0.5	0			0.5
S4-30798CWRIS		DANTINI GARY P	A	Cert	6/24/1991	IR_DS	0.011	CFS	0.5	0.12	29.0N 21.0E 20	SW/SW	1	LAKE CHELAN	12/13/1991	0.5	0			0.5
S4-30844(A)		Ruth A Swick Trustee	A	Pmt	7/11/1991	DM	0.033	CFS	4.5	1	29.0N 21.0E 29		1	LAKE CHELAN	12/13/1991	4.5	0			4.5
S4-30844(B)		Wall Richard	A	Pmt	7/11/1991	DM	0.033	CFS	4.5	1	29.0N 21.0E 29		1	LAKE CHELAN	12/13/1991	4.5	0			4.5
S4-30857CWRIS		CEDERGREEN ETAL	A	Cert	7/23/1991	DS	0.011	CFS	0.5		28.0N 21.0E 16	NW/SW	1	LAKE CHELAN	12/13/1991	0.5	0			0.5
S4-30676		Jasper Don	A	Pmt	3/20/1991	IR	0.011	CFS	2	1	27.0N 22.0E 10		1	LAKE CHELAN	12/20/1991	2	0			2
S4-30793CWRIS		LORENZ G & N	A	Cert	6/4/1991	DS	0.011	CFS	0.5		28.0N 21.0E 33	SW/NW	1	LAKE CHELAN	12/20/1991	0.5	0			0.5
S4-30838CWRIS		SCHRODER R & C	A	Cert	7/10/1991	DS	0.011	CFS	0.5		28.0N 21.0E 03	SE/SW	1	LAKE CHELAN	12/20/1991	0.5	0			0.5
S4-30628CWRIS		BENNION ROY I	A	Cert	2/26/1990	IR_DM	0.073	CFS	15	2.25	27.0N 22.0E 07		1	LAKE CHELAN	1/7/1992	15	0			15
S4-30801CWRIS		ROLFS STEVEN E	A	Cert	6/21/1991	IR_DS	0.03	CFS	3.5	1	27.0N 22.0E 07		1	LAKE CHELAN	1/8/1992	3.5	0			3.5
S4-30603		Gibson Dannie	A	Pmt	2/21/1991	DS	0.011	CFS	0.5		27.0N 22.0E 05		1	LAKE CHELAN	1/10/1992	0.5	0			0.5
S4-30682CWRIS		PRENTICE DAN	A	Cert	4/3/1991	DM	0.02	CFS	1		27.0N 22.0E 08	NW/SW	1	LAKE CHELAN	1/10/1992	1	0			1
S4-30836		Polly Steven	A	Pmt	6/24/1991	IR_DS	0.011	CFS	0.5		29.0N 21.0E 19		1	LAKE CHELAN	1/10/1992	0.5	0			0.5
S4-30861CWRIS		MURRAY VICTOR T	A	Cert	7/26/1991	IR_DS	0.01	CFS	1	0.12	28.0N 21.0E 32	NW/NW	1	LAKE CHELAN	1/10/1992	1	0			1
S4-30899CWRIS		PERRY/WATSON	A	Cert	8/14/1991	IR_DM	0.07	CFS	5.5	2	28.0N 21.0E 33		1	LAKE CHELAN	2/12/1992	5.5	0			5.5
S4-30744		Romano Leonard	A	Cert	5/13/1991	DS	0.011	CFS	0.5	0.1	28.0N 21.0E 29	NE/NE	1	LAKE CHELAN	2/20/1992	0.5	0			0.5
S4-29439		Pittsinger Julie	A	Pmt	10/8/1987	IR_DM	0.66	CFS	95	30	27.0N 22.0E 07		1	LAKE CHELAN	2/21/1992	95	0			95
S4-30777CWRIS		ABRAHAMSON B & W	A	Cert	5/31/1991	IR_DS	0.011	CFS	0.5	0.12	27.0N 21.0E 12		1	LAKE CHELAN	4/24/1992	0.5	0			0.5
S4-30898CWRIS		Pleyte John	A	Cert	8/8/1991	DS	0.01	CFS	0.5		27.0N 22.0E 05	SW/NE	1	LAKE CHELAN	5/15/1992	0.5	0			0.5
S4-30949		Munneke Henry	A	Pmt	9/13/1991	DS	0.011	CFS	0.5		27.0N 22.0E 05		1	LAKE CHELAN	9/15/1992	0.5	0			0.5
S4-30948CWRIS		STARCHER DUANE B	A	Cert	9/13/1991	IR_DS	0.01	CFS	0.5	0.13	27.0N 22.0E 17	NW/NE	1	LAKE CHELAN	11/25/1992	0.5	0			0.5
S4-31253(A)		Mayer Paul & Dona	A	Pmt	11/25/1992	IR_DS	0.02	CFS	2.1	0.43	27.0N 22.0E 16	SW/NE	1	LAKE CHELAN	11/25/1992	2.1	0			2.1
S4-31253(B)		Mayer Rudolph & Linda	A	Pmt	11/25/1992	IR_DS	0.02	CFS	2.3	0.49	27.0N 22.0E 16	SW/NE	1	LAKE CHELAN	11/25/1992	2.3	0			2.3
S4-31253(C)		Wason Buddy & Maria	A	Pmt	11/25/1992	IR_DS	0.02	CFS	2.3	0.5	27.0N 22.0E 16	SW/NE	1	LAKE CHELAN	11/25/1992	2.3	0			2.3
S4-31163CWRIS		GOODLUND GORDON L	A	Cert	2/12/1992	DS	0.011	CFS	1		28.0N 21.0E 27		1	LAKE CHELAN	1/4/1993	1	0			1
S4-31086CWRIS		WILD WM & NELLIE	A	Cert	12/10/1991	DS	0.011	CFS	0.5		27.0N 22.0E 16	SE/NW	1	LAKE CHELAN	1/5/1993	0.5	0			0.5
G4-30028CWRIS		SUTHERLAND GEORGE	A	Cert	7/26/1989	IR_DS	15	GPM	6.5	2	28.0N 22.0E 28		1	WELL	1/14/1993	6.5	0			6.5
S4-31022CWRIS		LUST M & B	A	Cert	10/16/1991	DS	0.018	CFS	1		27.0N 22.0E 04		1	LAKE CHELAN	1/14/1993	1	0			1
S4-31281CWRIS		HIGBEE & JOHNSON	A	Cert	5/28/1992	IR_DM	0.02	CFS	1.75	0.5	28.0N 21.0E 21		1	LAKE CHELAN	1/14/1993	1.75	0			1.75
S4-30984		Knudson Richard	A	Pmt	9/16/1991	DS	0.011	CFS	0.5		28.0N 21.0E 28		1	LAKE CHELAN	1/22/1993	0.5	0			0.5
S4-31171CWRIS		WHEELER LAWRENCE	A	Cert	2/18/1992	DS	0.011	CFS	0.5		28.0N 21.0E 21	SW/SW	1	LAKE CHELAN	1/25/1993	0.5	0			0.5
S4-31077CWRIS		GARBARENO ESTATE	A	Cert	12/9/1991	DS	0.01	CFS	0.5		28.0N 21.0E 03		1	LAKE CHELAN	1/28/1993	0.5	0			0.5
S4-31418		Evans Steve	A	Cert	7/27/1992	DS	0.011	CFS	0.5	0.4	28.0N 21.0E 09	SW/SW	1	LAKE CHELAN	1/28/1993	0.5	0			0.5
G4-30743CWRIS		CHELAN RUSTLERS	A	Cert	5/8/1991	ST_DM	40	GPM	5.6		27.0N 22.0E 12	SE/NE	1	WELL	1/29/1993	5.6	0			5.6
S4-31466CWRIS		KJOBECH CARL H	A	Cert	9/8/1992	DS	0.011	CFS	0.5		28.0N 21.0E 28	NW/SW	1	LAKE CHELAN	2/17/1993	0.5	0			0.5
S4-30961		Scotts Growth Management In	A	Pmt	9/18/1991	HE_DM	0.033	CFS	28.5	0	28.0N 21.0E 16		1	LAKE CHELAN	3/5/1993	28.5	0			28.5
S4-31128CWRIS		HAGAMAN RICHARD	A	Cert	1/13/1992	IR_DS	0.011	CFS	0.5	0.12	28.0N 21.0E 28		1	LAKE CHELAN	3/5/1993	0.5	0			0.5
S4-31162CWRIS		MORRIS MARTY	A	Cert	2/11/1992	IR	0.02	CFS	1.5	0.5	28.0N 21.0E 34	NW/NW	1	LAKE CHELAN	3/5/1993	1.5	0			1.5
S4-31278		Koch Robert	A	Pmt	5/8/1992	DS	0.011	CFS	0.5	0.13	28.0N 21.0E 33		1	LAKE CHELAN	3/5/1993	0.5	0			0.5
S4-30995CWRIS		STRATING HOWARD	A	Cert	10/1/1991	DS	0.01	CFS	0.5		28.0N 21.0E 09	SW/SW	1	LAKE CHELAN	3/17/1993	0.5	0			0.5
S4-31084NWRIS		Manson Parks Dept	A	Cert	11/15/1991	IR	0.17	CFS	30	10	27.0N 21.0E 01	NE/NW	1	LAKE CHELAN	3/17/1993	30	0			30
S4-31085NWRIS		Manson Parks Dept	A	Cert	11/15/1991	IR	0.035	CFS	5.25	1.75	28.0N 21.0E 27	SW/SW	1	LAKE CHELAN	3/17/1993	5.25	0			5.25
S4-31382		Dinsmore Mic	A	Pmt	7/18/1992	IR_DM	0.02	CFS	4	1	28.0N 21.0E 04		1	LAKE CHELAN	3/17/1993	4	0			4
S4-31260CWRIS		HEADRICK GARY A	A	Cert	5/4/1992	IR_DS	0.01	CFS	0.5	0.12	29.0N 21.0E 33	NW/SE	1	LAKE CHELAN	3/23/1993	0.5	0			0.5
S4-31254		Sundberg Jim	A	Cert	4/24/1992	IR_DS	0.011	CFS	1.5	0.5	28.0N 21.0E 27	SW/NW	1	LAKE CHELAN	3/24/1993	1.5	0			1.5
S4-31255		Sundberg Jim	A	Cert	4/24/1992	IR_DS	0.011	CFS	1.5	0.5	28.0N 21.0E 27	SW/NW	1	LAKE CHELAN	3/24/1993	1.5	0			1.5
S4-31267GWRIS		CONGDON RICHARD	A	Cert	5/19/1992	IR_DS	0.02	CFS	3.5	1	29.0N 21.0E 29		1	LAKE CHELAN	3/24/1993	3.5	0			3.5
S4-31282CWRIS		VAN DOREN CARL	A	Cert	5/29/1992	IR_DS	0.02	CFS	3.5	1	29.0N 21.0E 33	S2/SE	1	LAKE CHELAN	3/24/1993	3.5	0			3.5
S4-31198		Tift Paul	A	Cert	3/19/1992	DS	0.01	CFS	0.5	0.2	29.0N 21.0E 28	NW/SW	1	CHELAN RIVER	3/25/1993	0.5	0			0.5
G4-30678CWRIS		BROWNSBERGER D & T	A	Cert	4/1/1991	DS	10	GPM	1		27.0N 22.0E 05		1	WELL	3/26/1993	1	0			1
S4-31021CWRIS		RALPHS A M & B M	A	Cert	10/18/1991	IR_DS	0.01	CFS	0.5	0.12	29.0N 21.0E 33		1	LAKE CHELAN	3/26/1993	0.5	0			0.5
S4-31126		Watsons Harverene Resort In	A	Pmt	1/16/1992	IR_DM	0.044	CFS	4.5	1	28.0N 21.0E 33		1	LAKE CHELAN	3/26/1993	4.5	0			4.5
S4-31227CWRIS		BARNES FRED J	A	Cert	3/20/1992	IR_DS	0.04	CFS	1	0.12	28.0N 21.0E 34	NE/NW	1	LAKE CHELAN	3/26/1993	1	0			1
S4-31277CWRIS		WHEELER JOHN G	A	Cert	5/6/1992	IR_DS	0.01	CFS	0.5	0.12	28.0N 21.0E 21	N2/SW	1	LAKE CHELAN	3/26/1993	0.5	0			0.5
S4-31368		Godfrey George	A	Pmt	5/26/1992	DS	0.01	CFS	0.5		28.0N 21.0E 09		1	LAKE CHELAN	3/26/1993	0.5	0			0.5
S4-31329CWRIS		KOCH MARGARET ETAL	A	Cert	6/9/1992	IR_DS	0.02	CFS	1.33	0.33	28.0N 21.0E 32		1	GRANIT CR	3/26/1993	1.33	0			1.33
S4-31372CWRIS		CHANDLER C C & K	A	Cert	6/17/1992	IR_DM	0.022	CFS	2	0.4	28.0N 21.0E 21	SW/SW	1	LAKE CHELAN	3/26/1993	2	0			2

Summary of Existing Water Rights - WRIA 47 Above Chelan Dam

WRTS download		Active rights, no claims, large users accounted separately and included in total																																						
Report Date: 3/17/2014																																								
Total Permitted Rights by Date		Balance Remaining																			Large users include:																			
before 7/22/1925		14,288	50,712																	Lake Chelan Recl District - Muni		2,672.00																		
1/30/1970		35,547	29,453																	Lake Chelan Recl District - Irr		22,388.00																		
9/1/1982		42,710	22,290																	City of Chelan		5,376.14																		
4/29/1992		45,113	19,887																	RLF Cascade; Beebe Orchards WA		4,098.10																		
4/10/1995		52,243	12,757																	Bear Mountain Water District and Ranch		2,968.04																		
3/15/2002		53,689	11,311																	Subtotal Large Users		37,502																		
3/17/2014		53,723	11,277																	All Other Rights		16,220.62																		
Estimated Exempt Well Rights		200	11,077																	Total		53,722.90																		
Estimated Claims		4,000	7,077																																					

Summary of Existing Water Rights - WRIA 47 Above Chelan Dam

WRTS download		Active rights, no claims, large users accounted separately and included in total																							
Report Date: 3/17/2014																									
Total Permitted Rights by Date		Balance Remaining																							
before 7/22/1925	14,288																	50,712							
1/30/1970	35,547																	29,453							
9/1/1982	42,710																	22,290							
4/29/1992	45,113																	19,887							
4/10/1995	52,243																	12,757							
3/15/2002	53,689																	11,311							
3/17/2014	53,723																	11,277							
Estimated Exempt Well Rights																		200							
Estimated Claims																		11,077							
4,000																		7,077							
																		underlined = Info changed from WRTS		Irr. Duty		Dom. Use		Stock Use	
																		italized= priority date used		ft/acre		af/connect			
																				3.5		1		1	
File #	Cert #	Person	Stat	Doc	Priority Dt	Purpose	Qi	UOM	Qa	Ir Acres	TRS	QQ/Q	Src's	1stSrc	WRTS Documented Permit Issue Date	Documented Qa	IR use	Estimated Dom Use	Estimated Stock Use	Total					
S4-32200		Baker Ricky & Randie	A	Pmt	9/16/1994	DS	0.011	CFS	0.5	0	27.0N 22.0E 04		1	LAKE CHELAN	3/11/1996	0.5	0			0.5					
G4-31588		Amended Chelan Ranch Water	A	Pmt	1/4/1993	DM	12	GPM	5		28.0N 22.0E 35		1	WELL	3/14/1996	5	0			5					
G4-31728		Triangle C Farms Inc	A	Pmt	5/6/1993	ST,IR	30	GPM	2		28.0N 22.0E 27		1	WELL	3/14/1996	2	0			2					
S4-31888		Schulke Scott	A	Cert	12/27/1993	DS	0.02	CFS	0.5		28.0N 21.0E 03	E2/NW	1	LAKE CHELAN	3/14/1996	0.5	0			0.5					
S4-31901		Gouwerok Adrianus	A	Pmt	12/29/1993	IR,DS	0.02	CFS	0.5	0.7	28.0N 21.0E 28		1	LAKE CHELAN	3/14/1996	0.5	0			0.5					
G4-31942		Barnhart Mike	A	Pmt	2/10/1994	IR,DS	16	GPM	2	1.5	33.0N 17.0E 16		1	WELL	3/14/1996	2	0			2					
S4-32075		McMonigle Mary	A	Cert	6/17/1994	DS	0.02	CFS	0.5	0.2	28.0N 21.0E 28	NW/SW	1	LAKE CHELAN	3/14/1996	0.5	0			0.5					
S4-32080C		Myers Richard	A	Cert	6/28/1994	DS	0.02	CFS	0.5	0.25	28.0N 21.0E 10	SW/SW	1	LAKE CHELAN	3/14/1996	0.5	0			0.5					
S4-32227		Babcock Mark	A	Pmt	10/17/1994	DS	0.02	CFS	0.5	0.13	29.0N 21.0E 28		1	LAKE CHELAN	3/14/1996	0.5	0			0.5					
S4-32278		Bridges Trisha	A	Pmt	2/6/1995	DS	0.02	CFS	0.5	0.25	28.0N 21.0E 03		1	LAKE CHELAN	3/14/1996	0.5	0			0.5					
S4-32305		Bachtel Douglas	A	Pmt	3/22/1995	DS	0.02	CFS	0.5	0.25	28.0N 21.0E 28		1	LAKE CHELAN	3/14/1996	0.5	0			0.5					
S4-31975		Wagner Mark	A	Cert	4/1/1994	IR	0.02	CFS	0.5	0.13	28.0N 21.0E 34	NE/NW	1	LAKE CHELAN	3/20/1996	0.5	0			0.5					
S4-32361		Mayer Rudolph & Linda	A	Pmt	11/1/1995	IR,DS	0.05	CFS	3.5	1	27.0N 22.0E 04		1	LAKE CHELAN	3/20/1996	3.5	0			3.5					
S4-32077		Clark Ronald	A	Pmt	6/22/1994	ST,IR	0.02	CFS	6.6	3.5	27.0N 22.0E 07		1	UNNAMED STREAM	3/21/1996	6.6	0			6.6					
S4-32236		Leewens Sheila	A	Pmt	10/31/1994	DS	0.02	CFS	0.5		29.0N 21.0E 17	SW/SW	1	LAKE CHELAN	3/21/1996	0.5	0			0.5					
S4-32340		White May	A	Pmt	8/10/1995	DM	0.067	CFS	5		27.0N 22.0E 16		1	LAKE CHELAN	3/21/1996	5	0			5					
S4-32357		Day Larry	A	Pmt	9/1/1995	DS	0.011	CFS	0.5	0.25	27.0N 22.0E 05		1	LAKE CHELAN	3/21/1996	0.5	0			0.5					
S4-31921		Olson Bruce & Sylvia	A	Pmt	1/28/1994	DS	0.02	CFS	0.5	0.33	28.0N 21.0E 27	SW/NW	1	LAKE CHELAN	3/25/1996	0.5	0			0.5					
S4-32068		Hayward Benjamin	A	Cert	6/3/1994	DS	0.02	CFS	0.5	0.5	29.0N 20.0E 24	NE/SE	1	LAKE CHELAN	3/25/1996	0.5	0			0.5					
G4-32338		Kellys Resort	A	Pmt	8/9/1995	DM	25	GPM	10		28.0N 21.0E 16		1	WELL	3/25/1996	10	0			10					
S4-32027		Buck Jeff	A	Pmt	5/5/1994	IR,FP	0.53	CFS	28.2	8	27.0N 22.0E 04		1	LAKE CHELAN	4/23/1996	28.2	0			28.2					
S4-30369		USFS Wenatchee *	A	Pmt	9/28/1990	ST	0.08	CFS	2		28.0N 22.0E 35		1	WASHINGTON CREEK	4/25/1996	2	0			2					
S4-32355		Day Larry	A	Pmt	9/1/1995	DS	0.011	CFS	0.5		27.0N 22.0E 05		1	LAKE CHELAN	4/25/1996	0.5	0			0.5					
S4-32356		Day Larry	A	Pmt	9/1/1995	DS	0.011	CFS	5		27.0N 22.0E 05		1	LAKE CHELAN	4/25/1996	5	0			5					
G4-27159		Sather Jon	A	Pmt	10/14/1980	IR	160	GPM	120	40	28.0N 22.0E 29		2	WELL	2/7/1997	120	0			120					
S4-30583(F)		Davidson Ronald	A	Cert	2/13/1991	IR,DS	0.011	CFS	0.5	0.25	29.0N 21.0E 29	NE/NW	1	LAKE CHELAN	9/22/2000	0.5	0			0.5					
G4-32802		Morning Sun Estates Homeov	A	ROE	9/3/1998	MU	50	GPM	34		28.0N 21.0E 08	NE/SE	2	Well 2	5/4/2012	34	0			34					

## Summary of Reserve Accounting Spreadsheet

This attachment provides a brief description of the spreadsheet (WRIA 47 Reserve Accounting.xls) where the calculations for this memorandum were performed.

### Sheet: Original

This is the entire WRTS database downloaded from Ecology, for all rights above the dam.

### Sheet: Cull with All Shown

This sheet contains all of the water rights from the original WRTS dump. However, each record has been coded in the Cull Code column based on the reasons to cull identified in this memorandum. The culled records can all be found at the bottom of the list.

### Sheet: Just Culled Records

This sheet just contains the water right documents that were not culled, as described above.

### Sheet: Culled, Most Claims Removed

This sheet is a subset of the Just Culled Records sheet. In this sheet all documents identified as claims have been removed.

### Sheet: Culled, All Claims Removed

This sheet is a subset of the Culled Most Claims Removed sheet. In this sheet all changes to claims have also been removed.

### Sheet: Summary – ATTACHED WITH MEMORANDUM

This sheet is the sheet where most of the calculations are performed to arrive at the numbers presented in this memorandum. In this sheet all individual records for the large water right holders (LCRD, City of Chelan, RLF Cascade Land Holdings, LLC and L H Piro-Beebe, LLC et al, and Beebe Orchards Water Association, and Bear Mountain Ranch and Water District) have been deleted. Instead, individual totals for each of these entities are included based on the more rigorous review of the water right record.

### Sheet: Just Large Water Right Holders

This sheet contains the individual water right records from WRTS for each of the large water right holders (LCRD, City of Chelan, RLF Cascade Land Holdings, LLC and L H Piro-Beebe, LLC et al, and Beebe Orchards Water Association, and Bear Mountain Ranch and Water District). There is also a comparison of the WRTS totals with the water right review totals. Additional work was also undertaken to split each large water right holders' rights up so that the appropriate rights could be included in all of the reservation accounting through time shown in **Table 2**.

### Sheet: Permit Issuance Dates

This sheet is straight from Ecology on March 20, 2014. It identifies the dates when each permit for each water right record was issued. The "Eff Date" column was the date used and it was cross referenced through the vlookup function on the *Culled No Claims Large Lumped* sheet to perform the analysis shown in **Table 2**.