Central Utah Water Conservancy District

355 West University Parkway Orem, Utah 84058
Phone: (801) 226-7100, Fax (801) 226-7150

FAX

Date: OCTOBER 31, 2005

Number of Pages (Including Cover Sheet):

To:	Phone Number:	Fax Number:
JOHN MANN	801-538-7240	801-538-7467

From:	Phone Number:
JARED HANSEN	801-226-7152

Re: UTAH LAKE ACCOUNTING

Message:

If there are any problems with this fax transmittal, please contact Katherine Crenshaw by calling (801) 226-7123. Thank you.

Central Utah Water Conservancy District

355 WEST UNIVERSITY PARKWAY, OREM, UTAH 84058-7303
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OFFICERS
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Harley M. Gillman, Vice President

Don A. Christiansen, General Manag
Secretary/Treasurer

October 31, 2005

RECEIVED
NOV - 1 2005
WATER RIGHTS
SALT LAKE

Mr. John Mann
Regional Area Engineer
Utah Division of Water Rights
1594 West North Temple, Suite 200
Box 146300
Salt Lake City, Utah 84114-6300

Subject: Water Year 2005 Administration of Central Utah Project, Bonneville Unit, Utah Lake / Provo River Storage Exchanges under CUP Water Right Nos. A40523, A36639, A37093, E398, E4319 and Central Utah Water Conservancy District Water Right Nos. E3100 and E3101

Dear John:

The purpose of this letter is to comply with the November 1 deadline under the Utah Lake Distribution Plan, as amended, to report trans-basin imports, reservoir releases, and return flow credits claimed. Please note that to comply with the November 1 deadline; we are estimating values for part of October 2005, since these figures are not yet available. We assume that you will finalize the accounting once the October actual numbers are available.

The Provo River Commissioner, Stan Roberts, reported to the District that Provo River system storage was stored under CUP water right A40523 in Jordanelle and Deer Creek reservoirs during water year 2005 (November 1, 2004 through October 31, 2005) as shown on the next page.

2.A.U08.01.229

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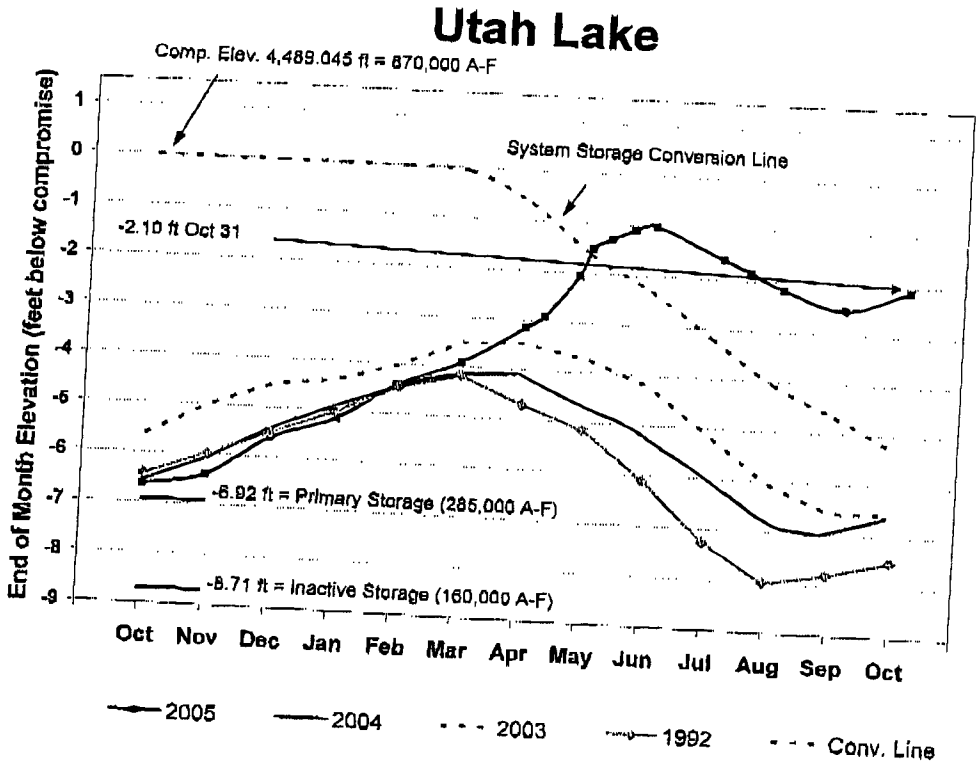
3) We claim return flows from Strawberry Reservoir CUP irrigation deliveries made in South Utah County during water year 2005 under A36639. The amount of CUP water delivered for irrigation use in South Utah County for water year 2005 was 10,150 acre-feet. We request that 35 percent of this amount, or 3,553 acre-feet, subject to incremental evaporation be credited to CUP water in Utah Lake under A37093. In our accounting, we assumed for simplification that all return flow reaches the lake prior to November 1, 2005.



Please see the tables on the following pages showing our calculations for the above including calculations for incremental evaporation, which we estimate in the amount of 8,932 acre-feet. Please note that for simplification, we have assumed return flows reach the lake the same month the water is delivered to agricultural lands. The total amount (carryover, direct, and return flow) claimed in Utah Lake adjusted for incremental evaporation is 84,763 acre-feet (includes estimate for October). We assume that this water is available for future uses or exchanges.

CUP System Storage Stored in Jordanelle and Deer Creek Reservoirs

Time Period	Jordanelle CUP Storage acre-feet	Deer Creek CUP Storage acre-feet	Less PRP A16642 acre-feet	Total acre-feet
Nov	328	12,784	0	13,112
Dec	465	10,205	0	10,670
Jan	996	18,067	0	19,063
Feb	1,107	9,197	0	10,304
Mar	7,117	9,903	0	17,020
Apr	15,580	6,655	0	22,235
May	40,153	0	0	40,153
Jun	7,803	0	0	7,803
Jul	0	0	0	0
Aug	0	0	0	0
Sep	0	0	0	0
Oct	0	0	0	0
Total	73,549	66,811	0	140,360

The total amount of CUP water stored as system storage is 140,360 acre-feet.

In early April of 2005 it did not appear that the level of Utah Lake would cross the conversion line. As it turned out April was unusually wet and demands in the Jordan and Provo rivers were non existent and Utah Lake began rising at a much higher than forecasted rate. During this same period it was determined that the Utah Lake level gage had malfunctioned causing an inaccurate analysis of conditions. Therefore on May 12, 2005 an amendment was sent to your office requesting that CUP Utah Lake water rights (E4319, E3101, and E3100) be used to lower the conversion line. Utah Lake level crossed the upper conversion line on approximately June 1, 2005. Therefore in accordance with the Utah Lake Distribution Plan CUP system storage was converted to CUP priority storage and no CUP import water or CUP import water return flows, from Strawberry reservoir, were required to be exchanged for Provo river storage.

Sources of CUP water in Utah Lake:

1) We claim that 25,197 acre-feet was carried over from water year 2004 in Utah Lake. At the beginning of water year 2004 CUWCD agreed to clear any previous balance in Utah Lake and start from zero.

2) We claim water that has been conveyed directly from Strawberry Reservoir to Utah Lake under A36639. A total of 62,091 acre-feet was conveyed to Utah Lake from November 1, 2004 through September 30, 2005. The amount anticipated to be conveyed during October 2005 is 2,854 acre-feet for a total of 64,945 acre-feet. We understand that this should be adjusted for incremental evaporation, even in current year accounting. Please let us know if this is incorrect. Adjustments for evaporation will be summarized later in this document.

CUP Import Water in Utah Lake WY2005

Time Period	Strawberry Res. Direct CUP Release to Utah Lake acre-feet	Strawberry Res. CUP Ag. Delivery to S. Utah County acre-feet	35 Percent CUP Ag. Return Flow to Utah Lake acre-feet	Less Incremental Evaporation acre-feet	Total CUP Direct and Return Flow to Utah Lake acre-feet	Total CUP Utah Lake Storage	
Nov	11,420		0	-402	11,018	26,197	*
Dec	11,972		0	-203	11,769	36,215	
Jan	11,980		0	-165	11,815	47,984	
Feb	10,787		0	-172	10,615	59,799	
Mar	11,933		0	-228	11,705	70,414	
Apr	1,774		0	-380	1,394	82,119	
May	1,472		0	-575	897	83,513	
Jun	753		0	-819	-66	84,410	
Jul		1,341	469	-1,360	-891	84,344	
Aug		4,339	1,519	-1,816	-297	83,453	
Sep		4,470	1,565	-1,791	-226	83,156	
Oct(estimated)	2,854		0	-1,021	1,833	82,930	
Total	64,945	10,150	3,553	-8,932	59,566	84,763	

* Carryover from WY2004 adjusted for incrimental evaporation

Incremental Evaporation from CUP Import Water in Utah Lake WY2005

Time Period	EOM Elevation feet bel. Comp.	EOM Surface Area w/ CUP Import Water acres	EOM Surface Area w/o CUP Import Water acres	Incremental Increase in Surface Area acres	Incremental Evaporation ke=1.35 inches	Incremental Evaporation acre-feet
Nov	-6.39	75,448	73,726	1,721	2.80	402
Dec	-5.60	78,165	76,033	2,132	1.14	203
Jan	-5.15	79,672	77,101	2,571	0.77	165
Feb	-4.42	82,060	79,196	2,864	0.72	172
Mar	-3.90	83,721	80,498	3,224	0.85	228
Apr	-3.15	86,067	82,965	3,101	1.47	380
May	-1.50	90,210	87,816	2,394	2.88	575
Jun	-1.00	91,534	89,095	2,440	4.03	819
Jul	-1.60	89,950	87,592	2,358	6.92	1,360
Aug	-2.15	88,552	86,216	2,336	9.33	1,816
Sep	-2.51	87,665	85,075	2,590	8.30	1,791
Oct(estimated)	-2.10	88,677	86,317	2,361	5.19	1,021

Water Available for CUP in Utah Lake

Category	acre-feet
Carryover from Water Year 2004	25,197
A36639 directly conveyed to Utah Lake for exchange under E398	64,945
A36639 return flow in south Utah County area for exchange under A37093 and E398	3,553
Less Incremental Evaporation Loss on the above	-8,932
E4319 - Used to lower Utah Lake Conversion Line	
E3101 - Used to lower Utah Lake Conversion Line	
E3100 - Used to lower Utah Lake Conversion Line	
Total	84,763

It is clear that the accounting of this water is complex. It is also clear that prompt and accurate accounting is very important to CUWCD as well as for other Provo River and Utah Lake water right holders. We would like to meet with you to discuss Provo River and Utah Lake accounting procedures. This will be helpful to us in order to plan our import releases and order of use of the water rights we have for the Bonneville Unit. Please contact me if you have any questions.

Sincerely yours,

Jared D. Hansen

Jared D. Hansen, P.E.
Assistant Project Manager

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CUP Import Water in Utah Lake WY2004

Time Period	Stawberry Res. Direct CUP Release to Utah Lake acre-feet	Strawberry Res. CUP Ag. Delivery to S. Utah County acre-feet	35 Percent CUP Ag. Return Flow to Utah Lake acre-feet	Less Incremental Evaporation acre-feet	Total CUP Direct and Return Flow to Utah Lake acre-feet	Total CUP Utah Lake Storage
Nov	3,322					
Dec	3,720		0	-35	3,287	3,287
Jan	3,658		0	-28	3,692	6,979
Feb	3,407		0	-28	3,630	10,609
Mar	3,151		0	-33	3,374	13,983
Apr	3,836		0	-47	3,104	17,087
May	112	0	0	-99	3,737	20,824
Jun		173	61	-202	-90	20,734
Jul		1,249	437	-288	-227	20,507
Aug		5,804	2,031	-527	-90	20,417
Sep	120	3,746	1,311	-816	1,215	21,632
Oct	3,429	0	0	-769	662	22,294
Total	24,755	10,972	3,840	-526	2,903	25,197
				-3,398	25,197	

Incremental Evaporation from CUP Import Water in Utah Lake WY2005

Time Period	EOM Elevation feet bel. Comp.	EOM Surface Area w/ CUP Import Water acres	EOM Surface Area w/o CUP Import Water acres	Incremental Increase in Surface Area acres	Incremental Evaporation kc=1.35 inches	Incremental Evaporation acre-feet
Nov	-6.06	76,595	76,446	149	2.80	35
Dec	-5.41	78,805	78,507	298	1.14	28
Jan	-4.90	80,498	80,063	435	0.77	28
Feb	-4.44	81,995	81,441	554	0.72	33
Mar	-4.13	82,991	82,329	662	0.85	47
Apr	-4.12	83,023	82,215	808	1.47	99
May	-4.69	81,184	80,344	840	2.88	202
Jun	-5.07	79,937	79,080	857	4.03	288
Jul	-5.85	77,316	76,402	913	6.92	527
Aug	-6.70	74,354	73,304	1,050	9.33	816
Sep	-6.99	73,315	72,203	1,111	8.30	769
Oct	-6.62	74,638	73,422	1,216	5.19	526

Water Available for CUP in Utah Lake

Category	acre-feet
A36639 directly conveyed to Utah Lake for exchange under E398	24,755
A36639 return flow in south Utah County area for exchange under A37093 and E398	3,840
Less Incremental Evaporation Loss on the above	-3,398
E4319	7,900
E3101	16,862
E3100	57,073
Total Available for Exchange	107,032
CUP Provo	36,950
Less E4319	29,050
Less E3100	-28,023
Remaining E3100	28,023
Utah Lake Carryover	25,197