



CENTRAL UTAH WATER
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October 27, 2016

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Subject: Water Year 2016 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 Teresa:

The purpose of this letter is to provide a report of CUP trans-basin imports, reservoir releases, and return flow credits claimed. We have received preliminary information needed for this report from the Provo River Commissioner and the Spanish Fork River Commissioner. In consultation with the commissioners we are estimating some of the information at this time. Once this information has been finalized to us and if needed we will update this report and resubmit it to you after the end of the Water Year.

In early 2016, it was clearly evident that the level of Utah Lake would not cross the conversion line or a lowered conversion line. Therefore on March 23, 2016, a request was sent to your office requesting that exchanges E4319, E3100 and E3101 not be used to lower the Utah Lake conversion line in accordance with the Utah Lake Distribution Plan and that those exchanges be used for direct exchange. Furthermore the District also requested to not use E398 until E4319, E3100, and E3101 had been exhausted. The elevation of Utah Lake was not sufficient to cross either the conversion line or a lowered conversion line. Therefore CUP system storage would need to be exchanged from Utah Lake using Exchange applications E4319, E3100, E3101 and E398. On April 27, 2016 Kent Jones, State Engineer, responded to our request. In that letter we were instructed that E3100 would be operated on a daily basis beginning at the start of the Utah Lake irrigation season and would end on October 15. E3100 would cease to be available at such a time as it is determined that the secondary water rights in Utah Lake are cut off. Also E398 would not be used until E4319, E3101, and E3100 had been exhausted.

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OCT 28 2016

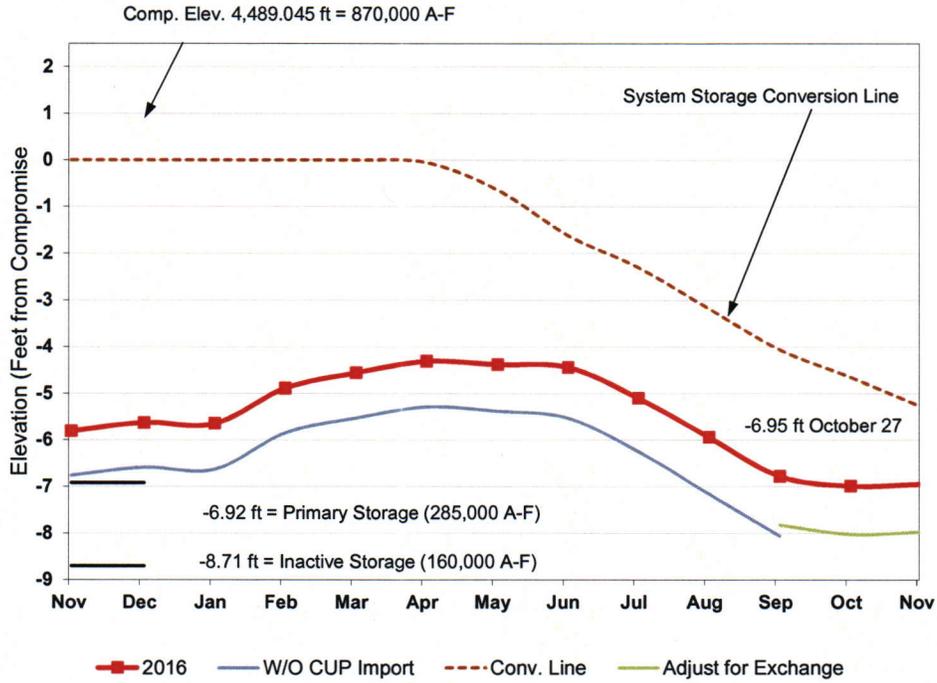
WATER RIGHTS
SALT LAKE

On August 11, 2016 the delivery of secondary water rights from Utah Lake ceased. It is our understanding that irrigation season for secondary water rights from Utah Lake started on April 20th creating a 179 day irrigation season through October 15th. Water Right E3100 produces 57,073 acre-feet of water at full supply and divided by 179 days produces 319 acre-feet per day. This year E3100 operated for 114 days from April 20th through August 11th producing 36,348 acre-feet of water available for direct exchange.

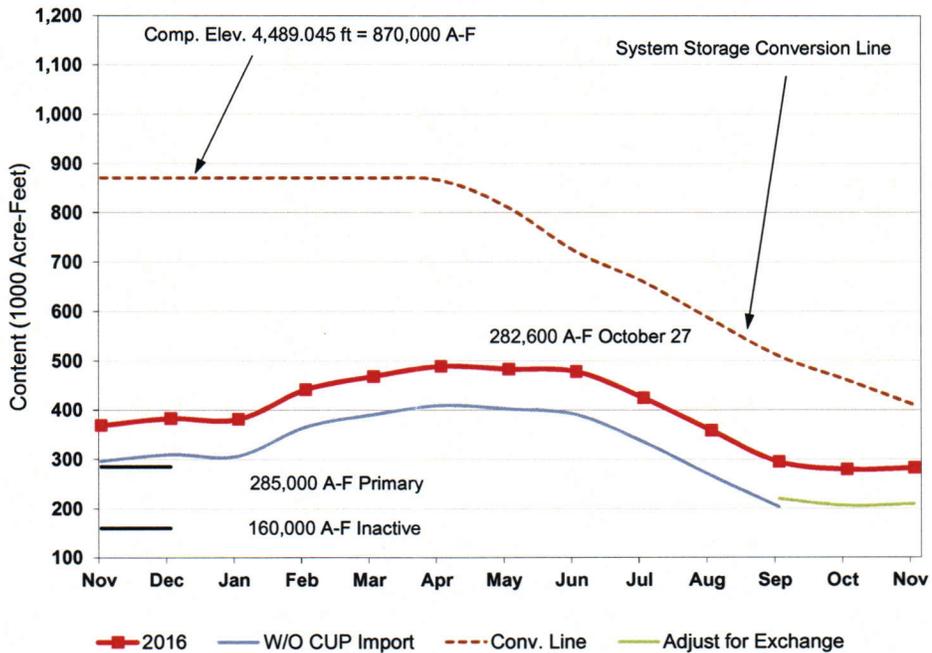
Sources of CUP water in Utah Lake during water year 2016 (November 1, 2015 to October 31, 2016):

- 1) We claim that 71,979 acre-feet of import water under application A36639, was carried over from water year 2015, subject to incremental evaporation, in Utah Lake.
- 2) We claim that water has been conveyed directly from Strawberry Reservoir to Utah Lake under A36639. A total of 26,929 acre-feet was conveyed to and stored in Utah Lake from approximately November 1, 2015 through October 31, 2016. We are estimating the volume conveyed for the last few days of October. We understand that this will be adjusted for incremental evaporation, even in current year accounting. Adjustments for evaporation will be summarized later in this document.
- 3) We claim return flows from Strawberry Reservoir CUP irrigation deliveries made in South Utah County during water year 2016 under A36639 in the amount of 5,082 acre-feet. The amount of CUP water, if any, delivered for irrigation use in South Utah County for October 2016 has not been reported to us by the Spanish Fork River Commissioner. When these values are reported to us we will then claim 35 percent of this amount, subject to incremental evaporation, be credited to CUP water in Utah Lake under A37093.
- 4) We claim that exchanges E4319, E3100, and E3101 produced a total amount of 61,111 acre-feet of water available for direct exchange.

Utah Lake



Utah Lake



Please see the following tables showing our calculations for the above including calculations for incremental evaporation, which we estimate in the amount of 14,566 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 import water amount (carryover, direct, and return flow) claimed in Utah Lake, estimated for the end of the water year, and adjusted for incremental evaporation, is 72,898 acre-feet.

CUP Import Water in Utah Lake WY2016

	Stawberry Res.	Strawberry Res.	35 Percent		Total	Total	
	Direct	CUP Ag.	CUP Ag.	Less	CUP Direct and	CUP Utah Lake	
	CUP Release to	Delivery to	Return Flow	Incremental	Return Flow	Storage	
	Utah Lake	S. Utah County	to Utah Lake	Evaporation	to Utah Lake		
Time Period	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet		71,979 *
Nov	1,767			-770	997		72,976
Dec	1,767			-321	1,446		74,422
Jan	1,767			-207	1,560		75,982
Feb	1,661			-192	1,469		77,451
Mar	2,062			-227	1,835		79,286
Apr	1,701			-402	1,299		80,585
May	7,436			-860	6,576		87,161
Jun	3,440			-1,306	2,134		89,295
Jul	1,865	7,067	2,473	-2,476	1,862		91,157
Aug	1,507	5,431	1,901	-3,122	286		74,917 **
Sep	794	2,023	708	-2,908	-1,406		73,511
Oct ** Estimate	1,162			-1,775	-613		72,898
Total	26,929	14,521	5,082	-14,566	17,445		

* Carryover from WY2015 adjusted for incremental evaporation ** Exchange E398 of 16,862 acre-made in August

Incremental Evaporation from CUP Import Water in Utah Lake WY2016

		EOM	EOM			
		Surface Area	Surface Area	Incremental	Incremental	
	EOM	w/ CUP	w/o CUP	Increase in	Evaporation	Incremental
	Elevation	Import Water	Import Water	Surface Area	kc=1.35	Evaporation
Time Period	feet bel. Comp.	acres	acres	acres	inches	acre-feet
Nov	-5.63	78,064	74,762	3,302	2.80	770
Dec	-5.65	77,996	74,619	3,377	1.14	321
Jan	-4.89	80,530	77,307	3,223	0.77	207
Feb	-4.56	81,607	78,409	3,199	0.72	192
Mar	-4.31	82,414	79,203	3,211	0.85	227
Apr	-4.38	82,189	78,905	3,284	1.47	402
May	-4.44	81,995	78,413	3,582	2.88	860
Jun	-5.10	79,838	75,950	3,888	4.03	1,306
Jul	-5.95	76,991	72,697	4,294	6.92	2,476
Aug	-6.78	74,069	70,054	4,015	9.33	3,122
Sep	-6.99	73,315	69,110	4,204	8.30	2,908
Oct ** Estimate	-6.95	73,459	69,356	4,103	5.19	1,775

Water Available for CUP in Utah Lake

Category	acre-feet
Import from Water Year 2015	71,979
A36639 directly conveyed to Utah Lake for exchange under E398	26,929
A36639 return flow in south Utah County area for exchange under A37093 and E398	5,082
Less Incremental Evaporation Loss on the above	-14,566
Total CUP import water in Utah Lake available for Exchange	89,424
E4319	7,900
E3101	16,862
E3100	36,348
Total Available for Exchange under E4319, E3100, E3101	61,111
CUP System Storage in Jordanelle and Deer Creek Reservoirs as of October 30 - Estimated	88,586
CUP System Storage in Jordanelle and Deer Creek Reservoirs Released to the Provo River	10,949
Amount remaining for Exchange under E4319, E3100, E3101	0
Total CUP import water in Utah Lake available for Exchange	89,424
CUP Import Water in Utah Lake Required for Provo River Storage Exchange	16,526
Total CUP import water in Utah Lake available after Exchange	72,898

CUP System storage for WY2016 is estimated at 88,586 Acre-Feet, of that 10,949 has been released to the Provo River and was delivered to Utah Lake. Exchanges E4319, E3101 and E3100 have produced 61,111 Acre-Feet leaving 16,526 Acre-Feet of system storage to be exchanged under E398. Incremental evaporation has been calculated for the CUP import water stored in Utah Lake at 14,566 Acre-Feet through the end of the water year. This leaves 72,898 acre-feet of CUP import water stored in Utah Lake.

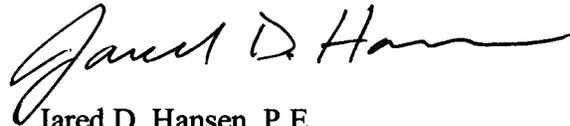
Teresa Wilhelmsen, P.E.

October 27, 2016

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When additional data becomes available and if necessary this report will be updated and resubmitted to you. Please contact me if you have any questions or need additional data.

Sincerely yours,



Jared D. Hansen, P.E.

Central Utah Project Manager

JDH:dv

cc: Kent Jones – State Engineer
Stan Roberts – Provo River Commissioner
John Mendenhall – Spanish Fork River Commissioner
John Larsen – Utah Lake/Jordan River Commissioner
Mike Wilson – Metropolitan Water District of Salt Lake and Sandy
Richard Bay – Jordan Valley Water Conservancy District
Keith Denos – Provo River Water Users Association
Wayne Pullan – U.S. Bureau of Reclamation
Justin Record – U.S. Bureau of Reclamation
Reed Murray – U.S. Department of Interior