
From: Yamanaka, Dan@DWR
Sent: Wednesday, April 29, 2015 2:20 PM
To: Grober, Les@Waterboards
Cc: Stein, Russell@DWR; Rea, Maria@NOAA; pfujitani@usbr.gov; Wilcox, Carl@Wildlife; Rico, Christine@Waterboards; Castleberry, Dan@fws; Garwin.Yip@noaa.gov; Riddle, Diane@Waterboards; RMILLIGAN@usbr.gov; Pettit, Tracy@DWR; Mizell, James@DWR; Leahigh, John@DWR; ekiteck@usbr.gov; PManza@usbr.gov; Hinojosa, Tracy@DWR; Rabin, Larry@fws.gov; JSandberg@usbr.gov
Subject: RE: Conserved Water Accounting for March 2015 under TUCP Order

An error was identified in the report sent with the original email (below for reference). The values shown in the Combined Exports column have been corrected in the attached, revised report. This is the only change in the report. All other numbers, including the amount of water conserved, did not change.

Sorry for the error. Please feel free to email or call me or Paul Fujitani if you have any questions.
Dan

From: Yamanaka, Dan@DWR
Sent: Friday, April 24, 2015 5:24 PM
To: Grober, Les@Waterboards
Cc: Stein, Russell@DWR; Rea, Maria@NOAA; pfujitani@usbr.gov; Wilcox, Carl@Wildlife; Rico, Christine@Waterboards; Castleberry, Dan@fws; Garwin.Yip@noaa.gov; Riddle, Diane@Waterboards; RMILLIGAN@usbr.gov; Pettit, Tracy@DWR; Mizell, James@DWR; Leahigh, John@DWR; ekiteck@usbr.gov; PManza@usbr.gov; Hinojosa, Tracy@DWR; Rabin, Larry@fws.gov; JSandberg@usbr.gov
Subject: Conserved Water Accounting for March 2015 under TUCP Order

Les--

In its February 3, 2015 Order Approving in Part and Denying in Part a Petition for Temporary Urgency Changes to License and Permit Terms and Conditions Requiring Compliance with Delta Water Quality Objectives in Response to Drought Conditions, the State Water Resources Control Board (Board) requires the Department of Water Resources (DWR) and the U.S. Bureau of Reclamation (Reclamation) to “calculate and maintain a record of the amount of water conserved through the changes authorized by this Order, as well as a record of where that water was conserved, submit such records on a monthly basis to the State Water Board within 20 working days after the first day of the following month.” In compliance with this requirement, DWR and Reclamation are presenting the attached table showing daily accounting for conserved water under the Order for the month of March.

Under D-1641, the Net Delta Outflow requirement is 7,100 cfs on a three-day average (or the equivalent salinity measured as 2.64 EC at Collinsville), plus a requirement to meet higher flows of 11,400 cfs or 29,200 cfs (or equivalent salinity at Chipps Island or Port Chicago) for a specified number of days. The April 6 version of the Order modified this requirement to 4,000 cfs on a monthly average.

The Projects met the unmodified X2 requirement at Collinsville and Chipps Island from March 1 through March 15 and March 25, respectively. Outside of each of these periods, the Projects operated under the revised Order. The amount of water that would have been required to meet the unmodified D-1641 standard

for the entire month was determined to be approximately 139 TAF. This amount was conserved upstream by the Projects in March. The cumulative total water conserved under the TUCP in 2015 to approximately 146 TAF.

If you have any questions or would like more information, please contact me at (916) 574-0456 or Mr. Paul Fujitani at (916) 979-2197.

Sincerely,
Dan

Dan Yamanaka

Chief, Delta Compliance & Modeling Section

Operations Control Office

3310 El Camino Avenue, Suite 300

Sacramento, California 95821

(916) 574-0456 - Office

March Date	Historical Daily Outflow (cfs)	Historical 3-Day Outflow (cfs)	Daily EC at CLL	Daily EC at CHP	14-day EC at CLL	14-day EC at CHP	Carry- Over used?	TUCP in effect?					Daily Combined Exports (cfs)	Total Difference in Outflow (cfs)	Water Shortage (TAF)
								X2 (CHP)	X2 (CLL)	NDOI	DCC	EC			
3/1/2015	5926	6121	1.37	2.87	0.77	2.00							5641	0	0
3/2/2015	5923	5884	1.65	3.85	0.85	2.16							5136	0	0
3/3/2015	5231	5693	1.57	3.75	0.93	2.30							5032	0	0
3/4/2015	5411	5521	1.68	3.75	1.01	2.45							4990	0	0
3/5/2015	5397	5346	1.51	3.61	1.08	2.61							4609	0	0
3/6/2015	5359	5389	1.71	3.97	1.17	2.77	x						4415	0	0
3/7/2015	4610	5122	2.03	4.44	1.27	2.95	x						4483	0	0
3/8/2015	4680	4883	2.46	5.14	1.39	3.18	x						3984	0	0
3/9/2015	4306	4532	2.88	5.34	1.53	3.44	x						4088	0	0
3/10/2015	4183	4389	3.04	5.61	1.70	3.72	x						4099	0	0
3/11/2015	4513	4334	3.31	5.75	1.88	4.00	x						3702	0	0
3/12/2015	5485	4727	3.00	5.43	2.04	4.24	x						3818	0	0
3/13/2015	5825	5274	3.21	5.84	2.19	4.45	x						3640	0	0
3/14/2015	5104	5471	3.38	6.35	2.34	4.69	x						3637	0	0
3/15/2015	4696	5208	4.49	7.58	2.56	5.03	x						3618	0	0
3/16/2015	5625	5142	4.75	7.72	2.79	5.31	x		x				2418	1475	2.92
3/17/2015	5583	5301	5.42	8.78	3.06	5.66	x		x				1908	1517	3.01
3/18/2015	5562	5590	5.19	8.40	3.31	6.00	x		x				1510	1538	3.05
3/19/2015	5556	5567	5.24	8.23	3.58	6.33	x		x				1660	1544	3.06
3/20/2015	5345	5487	5.60	8.85	3.86	6.68	x		x				1509	1755	3.48
3/21/2015	4901	5267	5.66	8.87	4.12	6.99	x		x				1504	2199	4.36
3/22/2015	4897	5047	5.67	9.18	4.35	7.28	x		x				1543	2203	4.37
3/23/2015	4442	4747	5.64	9.07	4.54	7.55	x		x				1536	2658	5.27
3/24/2015	4668	4669	5.67	9.01	4.73	7.79	x		x				1537	6732	13.35
3/25/2015	4546	4552	5.51	8.37	4.89	7.98	x		x				1531	6854	13.59
3/26/2015	4524	4579	5.22	8.18	5.05	8.17		x	x				1531	6876	13.64
3/27/2015	4536	4535	5.60	8.67	5.22	8.37		x	x				1534	6864	13.61
3/28/2015	4351	4470	5.45	8.48	5.36	8.53		x	x				1533	7049	13.98
3/29/2015	4865	4584	5.71	8.60	5.45	8.60		x	x				1526	6535	12.96
3/30/2015	4240	4486	6.14	9.26	5.55	8.71		x	x				1529	7160	14.20
3/31/2015	4111	4405	6.41	10.08	5.62	8.80		x	x				1526	7289	14.46

Monthly Average 4981

Total (TAF) 139.34

D1641 Standards		
Chipps X2	31 Day(s)	
Carry-Over	20 Day(s)	
CLL EC	2.64 umhos/cm	14-day
NDOI (CHP)	11400 cfs	3-day
NDOI (CLL)	7100 cfs	3-day