From: Giorgi, Bryant@DWR < <a href="mailto:Bryant.Giorgi@water.ca.gov">Bryant.Giorgi@water.ca.gov</a>>

**Sent:** Monday, June 13, 2022 7:21 AM

To: Ekdahl, Erik@Waterboards <Erik.Ekdahl@waterboards.ca.gov>; Riddle, Diane@Waterboards

<<u>Diane.Riddle@waterboards.ca.gov</u>>; Holland, Matthew@Waterboards <<u>Matthew.Holland@waterboards.ca.gov</u>>;

Foresman, Erin@Waterboards < Erin.Foresman@Waterboards.ca.gov>; Boland-Brien, Samuel@Waterboards

<<u>Samuel.Boland-Brien@waterboards.ca.gov</u>>; Rizzardo, Jule@Waterboards <<u>Jule.Rizzardo@waterboards.ca.gov</u>>; Yip,

Garwin < <u>Garwin.yip@noaa.gov</u>>; Grover, Joshua@Wildlife < <u>Joshua.Grover@wildlife.ca.gov</u>>; Allen, Kaylee@fws

<Kaylee\_allen@fws.gov>

**Cc:** White, Molly@DWR < Molly.White@water.ca.gov >; Hinojosa, Tracy@DWR < Tracy.Hinojosa@water.ca.gov >; Halston, Armin A < halston@usbr.gov >; White, Kristin N. < knwhite@usbr.gov >; Leahigh, John@DWR

 $< \underline{ John. Leahigh@water.ca.gov} >; Pettit, Tracy@DWR < \underline{ Tracy.Pettit@water.ca.gov} >; Kiteck, E < \underline{ ekiteck@usbr.gov} >; Miller, Tracy@DWR < \underline{ Tracy.Pettit@water.ca.gov} >; Witeck, E < \underline{ Pettit, Tracy@DWR} >; Witeck, E < \underline{ P$ 

Aaron@DWR < <u>Aaron.Miller@water.ca.gov</u>>; Uecker, Ian@DWR < <u>Ian.Uecker@water.ca.gov</u>>; Frazier,

Scott@Waterboards < scott.frazier@waterboards.ca.gov >

**Subject:** Electronic Transmittal: Conserved Water Accounting for Condition 4 of the April 2022 under TUCP Order for May 2022

## **EXTERNAL:**

Condition 4 of the April 4, 2022 Order Conditionally Approving a Petition for Temporary Urgency Changes in License and Permit Terms and Conditions 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 in storage and identify the reservoir(s) where storage is conserved. These records shall be submitted on a monthly basis to the State Water Board and fisheries agencies within 10 business 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 period of May 1 through May 31, 2022.

Under D-1641, the Net Delta Outflow requirement for May was 7,100 cfs on a three-day average (or the equivalent salinity measured as 2.64 EC at Collinsville) all month long, plus a requirement to meet higher outflow of 11,400 cfs (or equivalent salinity at Chipps) for 1 day. The April 4 Order modified this requirement to 4,000 cfs on a 14-day average. The Order also modified the location of the Western Delta agricultural standard compliance point from Emmaton to Threemile Slough, when the projects are not diverting or storing water, and the minimum San Joaquin River base flow requirement at Vernalis from 724 cfs to 710 cfs, outside of the pulse period.

The estimated amount of water that would have been required to meet the unmodified D-1641 standards for the period of May 1 through May 31 was determined to be 148.2 TAF. The modified Western Delta agricultural standard did not apply in the month of May, and therefore no water was conserved as a result of this modification. The entirety of the 148.2 TAF would have been needed to meet the Outflow requirement and 3.7 TAF of the water conserved for Outflow would have come from the San Joaquin River and would therefore contribute to meeting both the unmodified Vernalis standard as well as the unmodified Outflow requirement. Of the total 148.2 TAF, 3.7 TAF was conserved in New Melones Storage. For the month of May, the remaining 144.5 TAF conserved would've likely come from Folsom and Oroville storages.

If you have any questions or would like more information, please contact me at (916) 574-2660.

Bryant Giorgi
Senior Engineer, Water Resources
DWR/O&M
Export Management Section
bryant.giorgi@water.ca.gov
916-661-1976
916-574-2660

May	Water Conserved from TUCP?										Estimated	
Date	NDOI	Vernalis	EC	Daily Combined Exports	Historical 3- day Outflow (cfs)	Modeled 3- day Outflow (cfs)	Estimated Additional Outflow to meet X2	Historical Vernalis (cfs)	Modeled Vernalis (cfs)	Estimated Additional Flow to meet Vernalis (cfs)	Total Additional Outflow Needed (cfs)	Estimated Water Shortage (TAF)
5/1/2022	Х			1442	5330	7230	2500	866	866	0	2500	5.0
5/2/2022	Х			1445	5154	7404	2250	1003	1003	0	2250	4.5
5/3/2022	X			1422	4846	7262	2500	922	922	0	2500	5.0
5/4/2022	X			1442	4706	7290	3000	809	809	0	3000	5.9
5/5/2022	Х			1433	4183	7266	3750	678	678	0	3750	7.4
5/6/2022	Х			1432	3683	7266	4000	654	654	0	4000	7.9
5/7/2022	х			1131	3495	7329	3750	719	719	0	3750	7.4
5/8/2022	х			1142	3487	7320	3750	945	945	0	3750	7.4
5/9/2022	х			1167	3781	7281	3000	1176	1176	0	3000	5.9
5/10/2022	х			1169	4066	7316	3000	1091	1091	0	3000	5.9
5/11/2022	х			1448	4362	7278	2750	861	861	0	2750	5.5
5/12/2022	х			1435	4811	7311	1750	725	725	0	1750	3.5
5/13/2022	х			1443	5138	7222	1750	677	677	0	1750	3.5
5/14/2022	х			1444	5568	7318	1750	693	693	0	1750	3.5
5/15/2022	х			1420	5576	7326	1750	791	791	0	1750	3.5
5/16/2022	х			1445	5331	7248	2250	821	821	0	2250	4.5
5/17/2022	х			1442	5226	7226	2000	712	712	0	2000	4.0
5/18/2022	х			1403	5143	7226	2000	581	581	0	2000	4.0
5/19/2022	х	х		1434	5177	7227	2000	583	733	150	2150	4.3
5/20/2022	х	х		1412	4953	7220	2500	529	679	150	2650	5.3
5/21/2022	х	х		1429	4704	7187	2500	486	636	150	2650	5.3
5/22/2022	х	х		1415	4493	7226	2750	534	684	150	2900	5.8
5/23/2022	х	х		1421	4450	7183	2500	593	743	150	2650	5.3
5/24/2022	х	х		1425	4414	7231	2750	576	726	150	2900	5.8
5/25/2022	х	х		1426	4369	7269	3000	503	653	150	3150	6.2
5/26/2022	х	х		1410	4010	7327	3750	460	610	150	3900	7.7
5/27/2022	х	x		1400	3582	7232	3750	533	683	150	3900	7.7
5/28/2022	х	х		1126	3756	7314	2750	600	725	125	2875	5.7
5/29/2022	х	x		1306	4071	7204	2500	674	799	125	2625	5.2
5/30/2022	х	x		1127	4804	7346	2000	743	868	125	2125	4.2
5/31/2022	х	x		1115	4953	7245	2000	755	880	125	2125	4.2

## D-1641 Standards

1 days: NDOI 11,400 cfs 3-day or CHP daily/14-day EC below 2.64 mmos/cm

1 day carry over from April

30 days: NDOI 7,100 cfs 3-day or CLL daily/14-day EC below 2.64 mmos/cm Vernalis Monthly Avg (outside pulse period) 724 cfs (7-Day Avg 579 cfs)

DRAFT Subject to Revision

Total (TAF)\* 148.2

Total SJR (TAF)\* 3.7 Total SR (TAF)\* 144.5