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Sent: Monday, August 22, 2016 1:37 PM

To: CWFhearing

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Subject: SHR-7 and SHR-23 California WaterFix Operations Panel documents submitted

Attached please find the document introduced by SHR for cross-examination of the Operations panel, labeled SHR-7 and SHR-23. Due to the size of documents, there will be four emails today from me, each one containing different attachments. This is the fourth email with two small document files attached. Half of the list serve is sent at a time. This email serves emails A through K.

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STATEMENT OF SERVICE

**CALIFORNIA WATERFIX PETITION HEARING
Department of Water Resources and U.S. Bureau of Reclamation (Petitioners)**

I hereby certify that I have this day submitted to the State Water Resources Control Board and caused a true and correct copy of the following document(s):

[SHR-7 and SHR-23 presented during Part 1, Operations Questions]

to be served by **Electronic Mail** (email) upon the parties listed in Table 1 of the **Current Service List** for the California WaterFix Petition Hearing, dated 8-8-2016, posted by the State Water Resources Control Board on 8-16-2016 at

http://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/california_waterfix/service_list.shtml:

Note: In the event that any emails to any parties on the Current Service List are undeliverable, you must attempt to effectuate service using another method of service, if necessary, and submit another statement of service that describes any changes to the date and method of service for those parties.

	Petitioners Only:
	I caused a true and correct hard copy of the document(s) to be served by the following method of service to Suzanne Womack & Sheldon Moore, Clifton Court, L.P., 3619 Land Park Drive, Sacramento, CA 95818:
	Method of Service: _____

Date

I certify that the foregoing is true and correct and that this document was executed on 8-22-2016

Signature: 

Name: Nicole S. Suard, Esq.

Title: Managing Member

Party/Affiliation: Address: Snug Harbor Resorts, LLC
3356 Snug Harbor Drive (Ryer Island, Solano County)
Walnut Grove, CA 95690

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Below is a screen print* from the "Delta Water Balance Estimate" in thousands of acre feet, from the final version of the California Water Plan Update 2013 showing how much Sacramento River Inflow, outflow and the EXPORTS to State Water Project and Central Valley Project. Are these the flow numbers used to determine "Net Delta Outflow Index"?

Also note CCWD diversions are included in Delta Consumptive use and also listed as a separate category, indicating double-counting of same export #.

http://www.waterplan.water.ca.gov/docs/cwpu2013/ae/water_portfolio-inflow_outflow_delta.pdf

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Sacramento River Inflow	29015	21770	18360	10517	13104	18304	17129	16747	28039	11010	9557	9867	12777
Yolo Bypass Inflow	8996	1635	2961	366	708	1122	3121	707	13034	248	417	317	659
Eastside Tributaries Inflow	2096	1399	1078	372	462	534	445	1173	9679	1979	n	1231	2461
San Joaquin River Inflow	8456	3568	2846	1732	1396	1365	1373	3777	7341	1596	1234	865	1829
North Bay Aqueduct Exports	39	37	47	45	47	42	52	48	43	61	55	46	43
Contra Costa Water District Diversions at Rock Slough and Old River	160	133	126	104	121	138	120	119	116	112	135	107	94
State Water Project Exports at Banks Pumping Plant or Clifton Court Intake	2134	2439	3692	2635	2900	3458	3251	3625	3527	2954	1527	1636	2496
Central Valley Project Exports at Tracy	2474	2262	2487	2332	2505	2685	2722	2679	2628	2679	2018	1884	2141
Delta Consumptive Use ²	1691	1691	1693	1691	1691	1691	1693	1691	1691	1691	1693	1691	1666
Delta Precipitation ²	1423	734	956	764	758	739	753	1089	1059	477	600	662	789
Delta Outflow	43487	22542	18155	6944	9163	14050	14922	15403	43805	6216	1529	6713	2461

¹ Data from DAYFLOW Program; NOTE: includes DAYFLOW corrections through 01-07-2004 (<http://ep.water.ca.gov/dayflow>)

² Content Required by Water Code Section 10004.6

<http://snugharbor.net/maaes-2014/bdcp/flows/unaccounted-diversions.pdf>

YEAR	total inflows	EXPORTS	DELTA OUTFLOW reported	Unaccounted for flow
2010	18515	6397	2461	9657
2009	12942	5364	6713	865
2008	11808	5428	1529	4851
2007	15310	7497	6216	1597
2006	59152	8005	43805	7342
2005	28039	8102	15403	772
2004	22821	7838	14922	61
2003	22064	8014	14050	0
2002	16428	7264	9163	1
2001	13705	6807	6944	-45
2000	26201	8045	18156	0
1999	29105	6562	22542	2
1998	49986	6498	43487	1

In none of those years do we see 8.5 million acre feet of export or diversion from the Sacramento River, so how can DWR/USBR claim there is no change to QUANTITY of diversion from the Sacramento River?

data and references compiled by N. Suard, Esq. For use by Delta landowners 2/2014

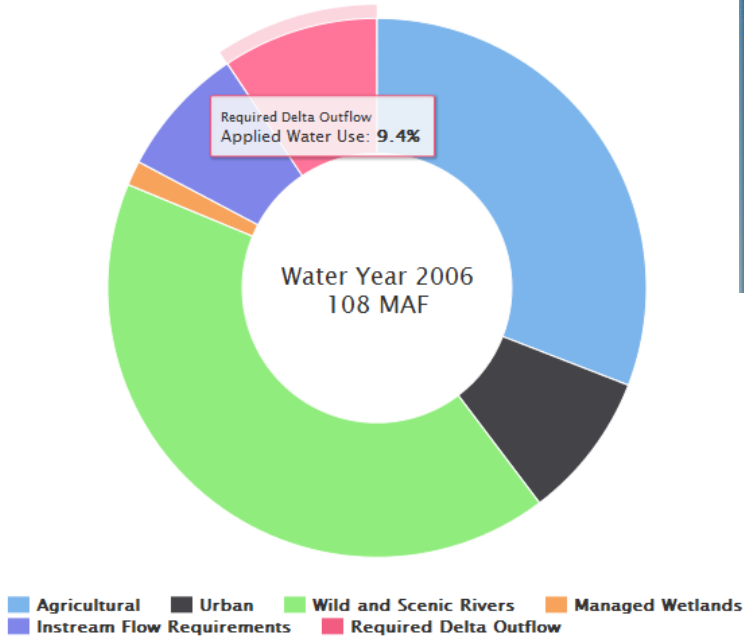
Who decides how much “surplus” or “excess” flow is available for export from the Delta? Who provides the actual flow and Export data to modelers and also the persons who report to the legislature, scientists and the public? **For example**, California updates its water plan every few years, based on actual and projected flows and resulting Exports, so who provides the data for the reports? (screen print below from 8-14-16 search at <http://ca.gov>

The screenshot shows the California Water Plan Update 2005 website. At the top is the CA.GOV logo and a navigation menu with items: Getting Services, Doing Business, Working, Learning, Living, Visiting, Government, and Search. Below the menu is a search bar containing '8 vol1.pdf'. The main content area features several articles. One article, 'A Citizen's Guide to Special Districts in California', is partially visible. A red box highlights a section titled 'Water Portfolios' with the text: 'Apr 29, 2016 ... This is important to all water planning activities. ... Flow Requirements Required Delta Outflow Source: California Water Plan Update 2013.' and the URL 'http://www.water.ca.gov/waterplan/topics/water_portfolios/index.cfm'. Another red box highlights a section titled 'California Water Plan Update 2005' with the text: 'This is not just another update of the California Water Plan. ... California Water Plan Update 2005 Is the product of a collaborative process that brought together ...' and the URL 'http://www.water.ca.gov/pubs/planning/california_water_plan_2005_update_bulletin_160-05_v1frontmatter.pdf'. A third red box highlights a section titled 'Climate Change' with the text: 'Mar 14, 2016 ... Climate change is having a profound Impact on California water ... The 2013 California Water Plan Update includes multiple scenarios of future ...' and the URL 'http://www.water.ca.gov/climatechange/'. A fourth red box highlights a section titled 'Strategic Plan Update: 2008 - 2012' with the text: 'The California Water Boards completed the process to update their Strategic Plan in September 2008. A series of forums were conducted to receive input from ...' and the URL 'http://www.swrcb.ca.gov/water_issues/hot_topics/strategic_plan/007update.shtml'. At the bottom of the page is a pagination bar with numbers 1 through 10 and a 'Next >' button. The number 1 is highlighted.

Wet Year (2006) Average Year (2010) Dry Year (2007) 2002-2010 Average

Water Year 2006

Water Year 2006 was a wet year. A total of 108 million-acre-feet (MAF) of water was used in the state. Hover chart to see the percentage used in each sector.



Source: California Water Plan Update 2013

Water Use by Hydrologic Region

California has a variety of climates and landforms. The amount and variability of precipitation can change dramatically across California, such that statewide average information does not truly depict regional conditions. Each region has unique challenges in meeting agricultural, urban, and environmental water uses from year to year with available supplies. Water use data for each hydrologic region is included in [Update 2013 Volume 2, Regional Reports](#). For detailed groundwater use data, see [California's Groundwater Update 2013](#).

Additional Information

For more detailed information about water portfolios, go to [Update 2013 Volume 5, Technical Guide](#). You can also email your questions to cwpc@mwater.ca.gov.

www.water.ca.gov/waterplan/topics/water_portfolios/index.cfm

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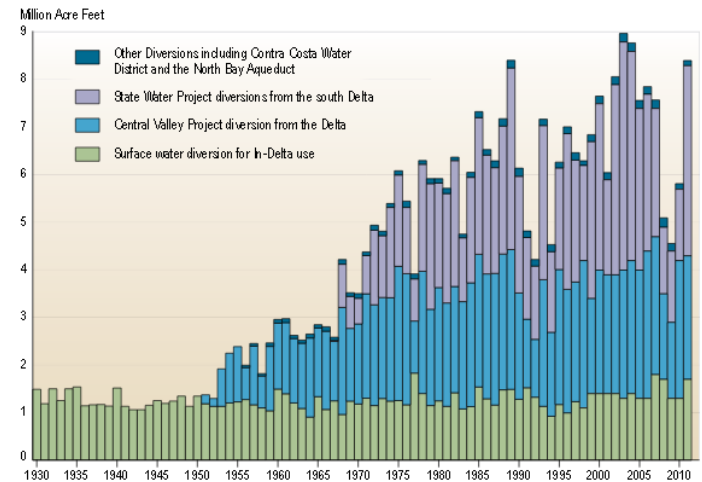
The primary reason for using water portfolio tables and flow diagrams is to provide an accounting of all water that enters and leaves the state and how it is used and exchanged between the regions. This is important to all water planning activities. Water portfolio data provide information for comparison about how water uses and sources of supply can vary between the wet, average, and dry hydrologic conditions for each of the hydrologic regions. The statewide information has been compiled from the 10 hydrologic regions.

[Water Use in California](#)

[California Water Plan Home](#)

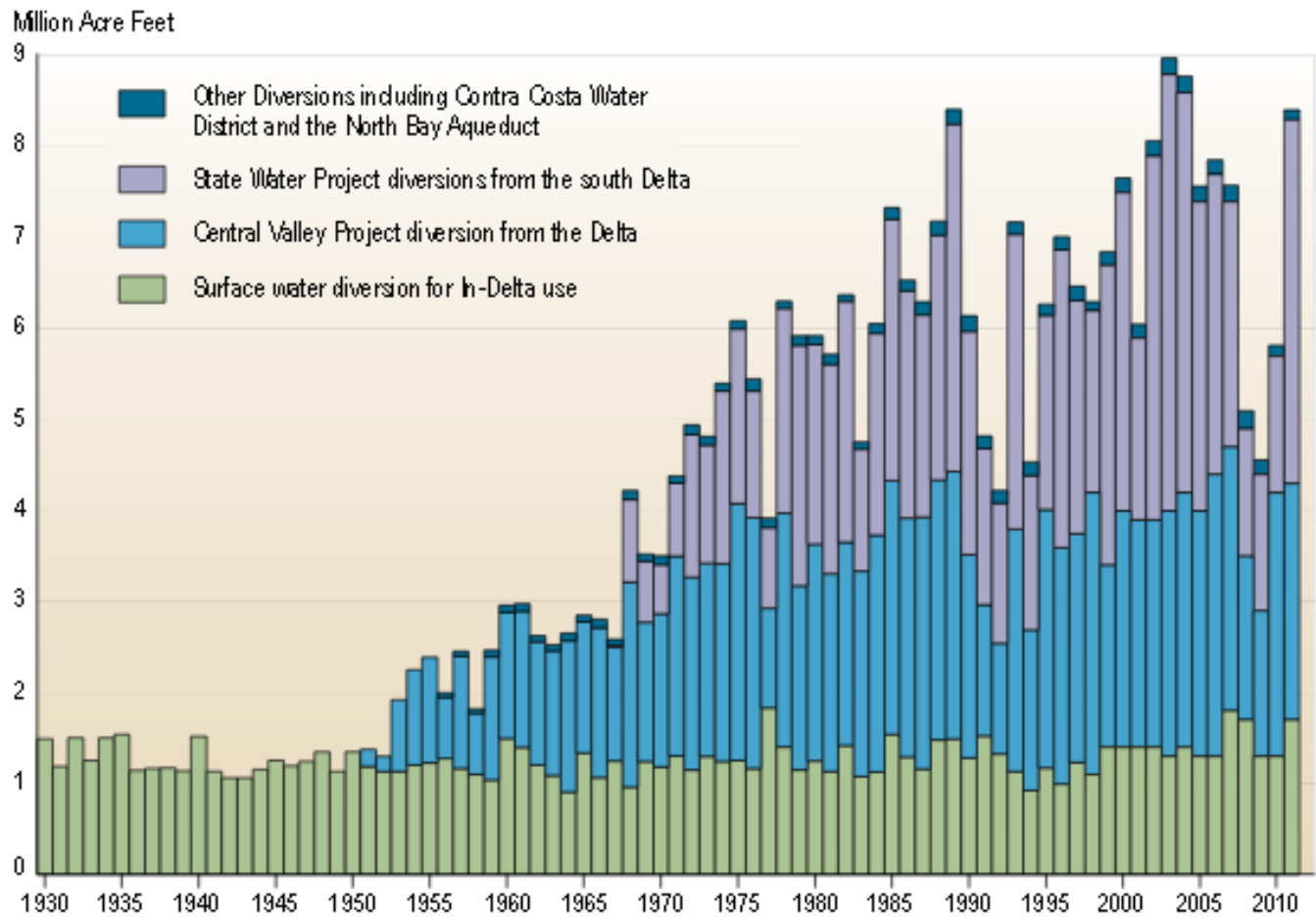
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Figure D-6 Historical Diversions from within the Delta



Note: Data from 1930-1997 comes from the *Delta Vision Blue Ribbon Task Force 2008 Final Report* and data from 1998-2010 comes from DWR water portfolio and dayflow numbers.

Figure D-6 Historical Diversions from within the Delta



Note: Data from 1930-1997 comes from the *Delta Vision Blue Ribbon Task Force 2008 Final Report* and data from 1998-2010 comes from DWR water portfolio and dayflow numbers.

Below is another screen print showing the “correction” to the Water_portfolio_inflow_outflow_delta which Showed online soon after N. Suard brought to the attention of interested North Delta persons and officials.

As of August 2016 the data has not been corrected and the “water balance” table does not show online now despite the fact the graphics in the report were based on the original chart provided to the public.

Note that since the data is hard to review in smaller sizes, the large size pdf prints will be uploaded and labeled SHR-7large.pdf and full study poster labeled SHR-7largeposter.pdf

SCREEN PRINT OFDWR CHART CORRECTED BY DWR AND POSTED 3/19/2014

Delta Water Balance Estimates¹ (TAF)

Note: Draft Information. The final Water Plan assumptions and estimates will be included in Volume 5, the Technical Guide.

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Sacramento River Inflow	29,015	21,770	18,360	10,517	13,104	18,304	17,128	16,747	27,592	10,970	9,557	9,867	12,777
Yolo Bypass Inflow	8,416	1,629	2,961	366	708	1,122	3,128	707	10,939	248	417	317	659
Eastside Tributaries Inflow	2,090	1,399	1,078	372	462	534	445	1,173	2,338	383	295	366	633
San Joaquin River Inflow	8,491	3,568	2,846	1,732	1,396	1,365	1,373	3,777	7,341	1,596	1,234	865	1,829
North Bay Aqueduct Exports	39	38	47	45	47	42	52	48	43	61	55	46	43
Contra Costa Water District Diversions at Rock Slough and Old River	160	133	126	104	121	138	120	119	116	112	135	107	94
State Water Project Exports at Banks Pumping Plant or Clifton Court Intake	2,134	2,439	3,692	2,635	2,900	3,458	3,251	3,625	3,527	2,954	1,527	1,636	2,496
Central Valley Project Exports at Tracy	2,474	2,263	2,487	2,332	2,505	2,685	2,722	2,679	2,628	2,679	2,018	1,884	2,141
Delta Consumptive Use (2)	1,751	2,039	2,017	1,863	1,837	1,791	1,991	2,096	1,88	1,700	1,793	1,784	1,865
Delta Precipitation (2 (3)	2,033	1,088	1,271	936	903	839	976	1,233	1,249	525	700	755	988
Delta Outflow	43,487	22,542	18,147	6,944	9,163	14,050	14,914	15,070	41,264	*6,216	*6,675	*6,713	*10,247

¹ Data from DAYFLOW Program; 7-1-2012 (<http://www.water.ca.gov/dayflow>)
² Content Required by Water Code Section 10004.6
³ Delta only without Suisun Marsh

Corrected chart posted online 3/19/14 with no reference to the fact it is a correction of the previous posting by DWR

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