

SHR-2- 264

Questions regarding impacts to recreation
From construction and operation of
Proposed tunnels and intakes



SHR-6

1908 Sacramento River, California official survey for US Congress and report of findings compiled by USGS from 1903-1907: At the driest time of year of a dry year, the minimum Sacramento River constant "average low water" outflow is more than 7,400 cfs, with 27% flow into Steamboat Slough (1,998) and 24% through Georgiana Slough.

Alternate flow observation: 7,377 cfs at Courtland, with 1,802 cfs split between Steamboat and Sutter Sloughs.

(Note that fresh water < 1 ppt for the entire reach of the Sacramento River)

Minimum flows and splits between waterways

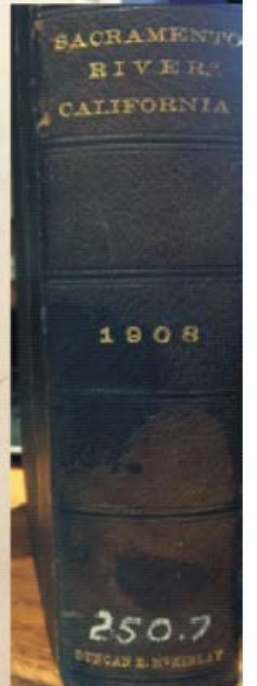
SACRAMENTO RIVER, CALIFORNIA.

From an examination of the records of the United States Geological Survey covering the period 1903-1907, inclusive, it is estimated that the average low-water flow of the Sacramento River below the mouth of the American is as follows: August, 9,250 cubic feet per second; September, 7,820 cubic feet per second; October, 9,580 cubic feet per second; with a minimum discharge of 5,900 cubic feet per second for September, 1905.

The discharge for August, 1908, is estimated by the district engineer of the United States Geological Survey as 6,740 cubic feet per second. It is estimated that the discharge for September, 1908, was considerably less than that of August, and that it was less than the discharge of September, 1905. The observations of this office during the period August 3-17 gave a discharge of about 7,400 cubic feet per second, of which about 27 per cent flowed through Steamboat Slough and about 24 per cent through Georgiana Slough.

A comparison of this survey with that of the survey of 1805-96 shows that the river is improving as a navigable channel and that it is recovering from the effects of unrestricted hydraulic mining. It is estimated that the river bed for a distance of 14 miles immediately below Sacramento has lowered 2 feet in the past twelve years. The American and the Feather rivers, however, are still full of debris, and the effect of the sand deposits in the American River on the Sacramento River are noticeable for a considerable distance below the mouth of that river, and the fact that these two rivers contain probably more than 500,000,000 cubic yards of fine material, all of which must eventually pass down the Sacramento River to Suisun Bay, must be borne in mind in any consideration of the improvement of this river.

It is estimated that the maximum flood discharge of the river during the flood of March, 1907, if it had been confined to the river channel, would have exceeded 500,000 cubic feet per second. It is seen, therefore, that the minimum low-water discharge is about 1 per cent of the maximum flood discharge.



Book of maps is available for view upon request by contacting N. Suard, Esq.

All maps and descriptions were also professionally scanned and uploaded to the following locations for easy access to viewers:

<https://archive.org/details/MapsCADelta> (Sacramento River and Steamboat Slough)
<https://archive.org/search.php?query=1908%20san%20joaquin%20river%20survey>

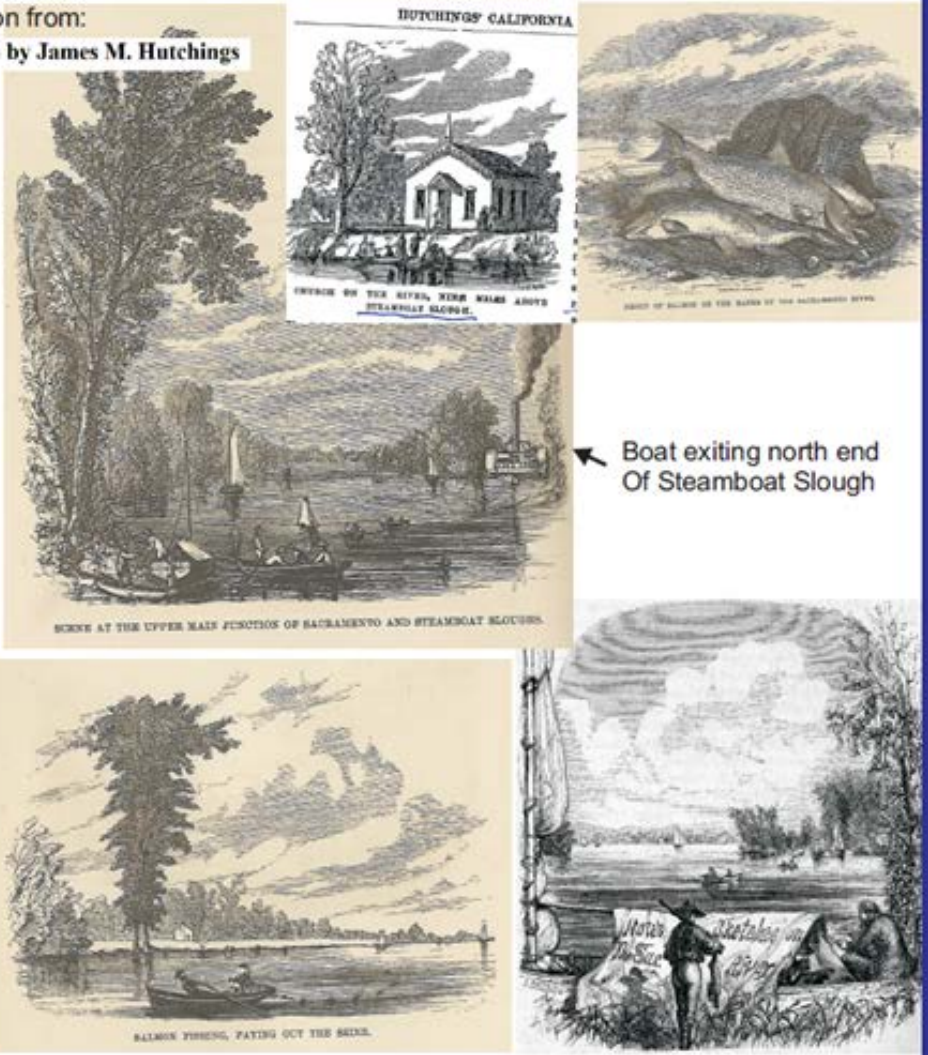
Sketches and Steamboat Slough description from:

Scenes of Wonder and Curiosity in California (1862) by James M. Hutchings

STEAMBOAT SLOUGH.

A short distance above the Hog's Back we arrived at the junction of Sutter Slough with Steamboat Slough, and there enter the narrowest part of the stream. As this slough is deep and navigable, and moreover is about nine miles nearer for sailing through than by the main, or "old river," nearly all vessels upward bound take this route; while those on the downward trip (excepting steamboats) generally take the main river, inasmuch as the wind is more favorable for their return to San Francisco.

As we pass through Steamboat Slough, we are impressed with the narrowness of the channel for such large vessels, the luxuriant foliage of the trees that adorn its banks, and the snug little cabins, nearly shut out from sight by wild vines and trees, that are seen at intervals on its margin. Indeed the scenery, as you steam up or down the river, is picturesque in no slight degree. Here and there, as you turn with the sudden windings of the stream, you room upon the little boats of fishermen, and sloops, with their sails furled like the folded wings of a sea-bird, waiting for the wind. The improvements of the husbandman are everywhere seen along the shorecottages half hidden among the drooping branches of the sycamores, outhouses, haystacks, orchards, and gardens with their product of squashes and cabbages piled in huge heaps; and here and there a school-house or church gives a cheerful domestic character to the scene. The landscape is diversified by the gnarled oaks, with vines clinging about them for support, and their branches covered with dark masses of mistletoe.



Boat exiting north end Of Steamboat Slough

April 27, 2003

San Francisco Chronicle B15

SHR-2-231

Steamboat Slough & Ryer Island scenes 1940s to 1989's



Sea Scouts on Steamboat Slough in the 1970's



Snug Harbor in the 1980's



SPARAGUS KING Ryers Island Sacramento River (Italian-Americans)



Steamboat Slough bridge from Grand Island



Ocean views and other wonders of Bay Area campsites

Can you imagine waking up in your sleeping bag, poking your head out your tent and being greeted by a spectacular waterfront beach, the water lapping gently at the shore.

Then hearing a light scratching noise, quickly turning to scan the surrounding landscape, and spotting a dozen elk just 40 yards off, pawing at the ground, nibbling at fresh greenery.

Can you imagine doing this at a campsite in the Bay Area?

This is no dream. There's a place where fantasies like this come true. This scene can happen virtually any morning at the campsites along the west shore of Tomales Bay at Point Reyes National Seashore, where there are a series of boat-in camps set along sandy coves, ideal to reach by kayak or canoe.

Of the 90 campgrounds in the Bay Area, this is the best of them. Other camps feature redwoods forests, backpacking trail sites, ocean bluffs, stunning views, launch points for boating, and hidden spots within eyesight of San Francisco. In most cases, reservations are required.

For the coming spring and summer season, here are my ratings:

1. Tomales Bay boat-in, Point Reyes National Seashore: There are 20 dispersed campsites nestled along the shore of Tomales Bay, from Tomales Point on south to just north of Indian Beach (at Tomales Bay State Park). This setting is gorgeous and quiet, and with Inverness Ridge to the west, sheltered from coastal winds. Opportunities for sea kayaking and canoeing are unparalleled in the region. Boaters must bring portable toilets. (415) 663-8054.
2. Kirby Cove, Marin Headlands: This is a drop-dead beautiful campsite set amid a small grove of eucalyptus and cypress. It is small and hidden, with space for just four tents, with a jaw-dropping view of the Golden Gate Bridge. San Francisco Headlands and



Tom Stienstra
Outdoors

7. Butano walk-in, Butano State Park: The reward here is a campsite secluded in dense redwoods in the coastal Santa Cruz Mountains, set on the threshold of excellent hiking. Very short walks are required to the best sites. (500) 444-7275.

8. Steep Ravine, Mount Tamalpais State Park: Ten primitive cabins are set on a bluff at Rocky Point, overlooking the ocean. That is why this is the most popular campsite in California, with reservations cleaned out within 10 minutes on the first day of each month. An additional half dozen walk-in sites are exposed to coastal winds. (800) 444-7275.

9. Del Valle Regional Park: This is the best drive to family campground in the Bay Area. The park features a recreation lake, boat ramp, boat rentals, swimming, fishing, biking and hiking and a wilderness trailhead. (510) 562-2267.

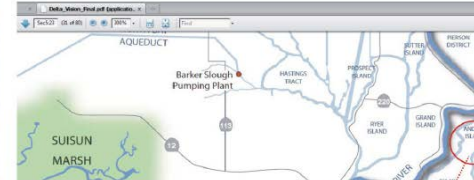
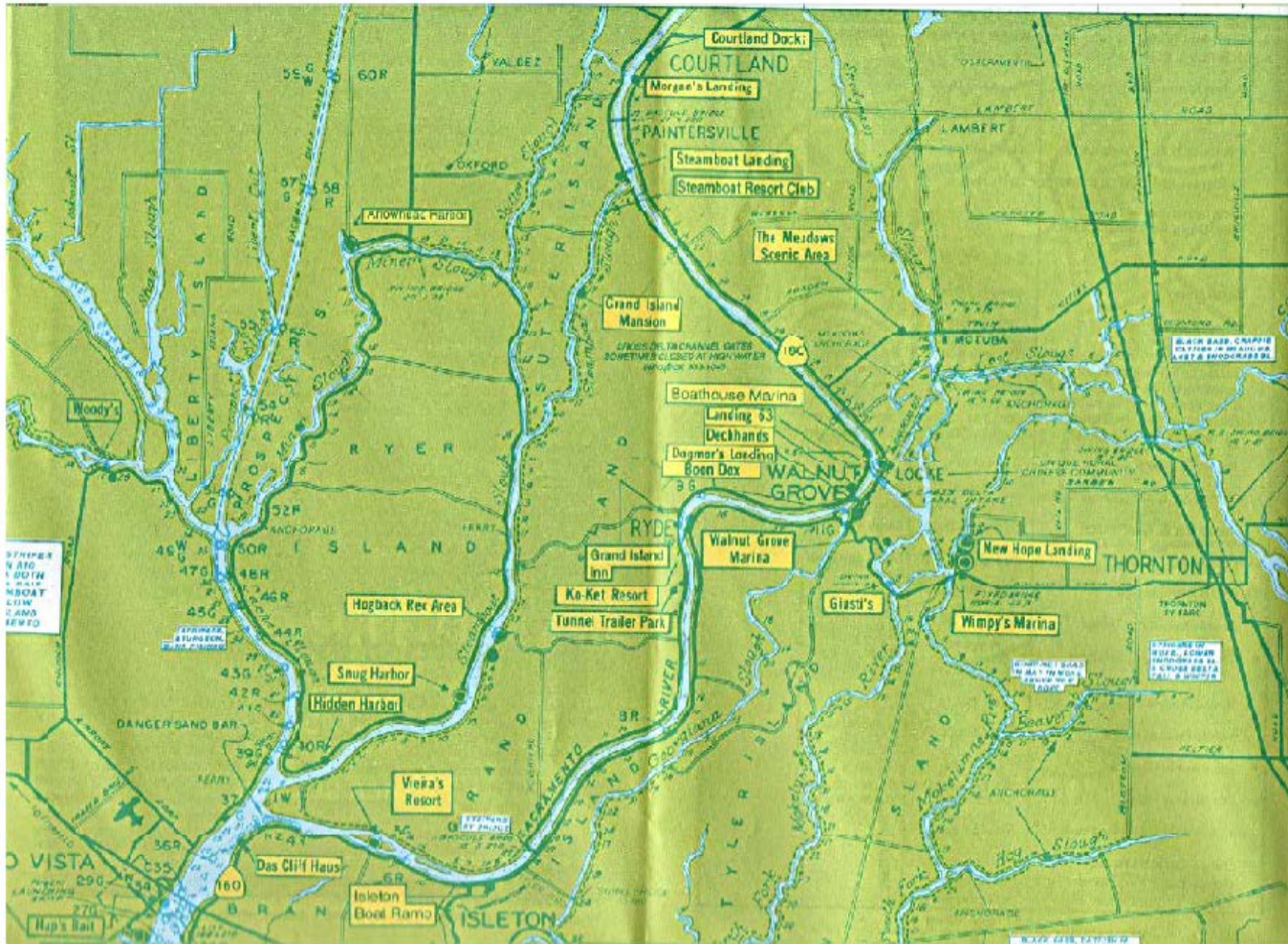
10. Snug Harbor, Sacramento River Delta: The best privately operated park by far in the Bay Area. The place sparkles and features park-model cabins, RV and tent campsites, boat launch, docks, and waterfront sites, with boat rentals available nearby. (916) 775-1455.

Others Bay Area campgrounds of significant note:

- Marin: Sky Camp, Coast Camp and Glen Camp at Point Reyes National Seashore, (415) 663-8054; Sausalito

SNUG HARBOR!

Portion of 2003 Hal Schell Map of the Delta, used as reference map



SECTION 8 VISUAL RESOURCES DRAFT DELTA PLAN PROGRAM ENVIRONMENTAL IMPACT REPORT

1 Figure 8-6 Since EDWA/AECOM confuses the location of the Delta waterways, should we assume their reports and computer modeling are also this confused? Steamboat Slough is to the left, not Elk Slough

2 Aerial View of Agricultural Land

3 The photograph shows the confluence of Elk Slough (left) and the Sacramento River (right), looking south. This provides a sense of the various textures and color schemes provided by agricultural land in the Delta. Note the right angles, concentric lines across agricultural plots, and the variation of greens and browns, indicating fields at different production stages.

4

5

6

7 Source: Photograph taken by EDWA (from AECOM) in 2009



BLUE RIBBON TASK FORCE

Delta Vision Strategic Plan

GRIZZLY BAY
HIVER ISLAND
ROE ISLAND
BAY ISLAND
SIMS ISLAND
DUTTON ISLAND
WH ISLAND
HONKER BAY

Wrong Island Name

19 **Recreation Visitor and User Days.** The Delta's proximity to the Bay Area and
 20 Sacramento region and its diversity of recreation settings and experiences makes it a
 21 popular recreation destination. Approximately 7 million people currently visit the Delta
 22 for recreation annually.^v By 2020, visitation is forecasted to reach 8 million visitor days.^{vi}
 23 According to a 1996 survey of recreation in the Delta conducted by the Department of
 24 Parks and Recreation (DPR), 23.5% of registered boat owners and 23.0% of licensed
 25 anglers in California recreated in the Delta in 1995.^{vii} The majority of Delta boaters and
 26 anglers come from nearby counties, but a sizable fraction come from much further
 27 distances. In 1995 Los Angeles County alone accounted for 7.3% and 3.6% of Delta
 28 boater and angler user days, respectively. Table 1 lists the top 10 counties of origin for
 29 Delta boating and fishing recreation.^{viii}

31 **Table 1: Top 10 Counties of Origin for Delta Boating and Fishing Recreation**

RANK	BOATERS	PERCENT	RANK	ANGLERS	PERCENT
1	Contra Costa	12.5	1	Sacramento	10.7
2	Sacramento	9.9	2	San Joaquin	10.0
3	Alameda	8.6	3	Alameda	8.0
4	Santa Clara	7.9	4	Santa Clara	8.0
5	Los Angeles	7.3	5	Solano	7.6
6	San Joaquin	6.9	6	San Mateo	3.8
7	Stanislaus	3.7	7	Placer	3.6
8	Marin	3.4	8	Los Angeles	3.6
9	Solano	3.1	9	Stanislaus	3.1
10	San Mateo	3.0	10	Sonoma	2.0
	Subtotal	66.3		Subtotal	60.4

32

Recreation

2

Written by: David Mitchell

Context Memorandum: Recreation

Iteration 1: June 12, 2007

1 People recreating in the Delta typically engage in more than one recreational
 2 activity. In recreational surveying, a user-day is counted for each activity a visitor
 3 participates in over the course of a day. Thus if a person visiting the Delta spent part of
 4 the day fishing and part of the day pleasure cruising, that would be counted as two user
 5 days of recreational activity. Surveys show that the Delta currently supports over 12
 6 million user days of recreational activity annually.^{ix} Table 2 shows the estimated number
 7 of user days occurring in the Delta, as derived from surveys of boaters and anglers.^x

8

9 **Table 2: Estimated Delta Boating and Fishing User Days**

ACTIVITY	ESTIMATED NO. OF GROUPS	AVG. NO. OF DAYS PER YEAR	TOTAL GROUP DAYS	AVG. NO. OF PERSONS PER TRIP	ESTIMATED TOTAL USER DAYS PER YEAR
Boating	186,000	26.1	4,854,600	2.97	14,418,162
Fishing	169,200	24.0	4,060,800	2.91	11,816,928

^xUser day estimates for boating and fishing cannot be added together because this would result in double counting. Double counting would occur because most boaters also fished and many anglers also boated.

40

2006: 14 million user days per year, over one billion in recreation dollars added by Delta, supporting 14,000 jobs Delta-related In the state. Study does not appear to include the recreation uses by the estimated 500,000 persons living within the legal Delta region, as the survey was focused on persons visiting the Delta from out of area (SHR 2-22 refers to 12 million recreation users in the Delta per year SHR 2-26 is another report on Fishing and boating))

SHR-2-21F.pdf

Context Memorandum: Recreation

Iteration 1: June 12, 2007

1 dollars (adjusted to 2006 dollars).^{xi} Delta recreation also benefits the rest of
 2 California's economy. In addition to money spent inside the Delta, the DPR
 3 survey found that Delta boaters and anglers spent on average \$126 and \$163,
 4 respectively, per trip on businesses outside the Delta. Estimated recreation
 5 expenditures in 1995 by Delta boaters and anglers benefiting businesses located
 6 outside the Delta were in excess of 270 million. Total Delta boater and angler
 7 recreation expenditures benefiting California businesses were estimated to
 8 exceed half a billion dollars in 1995. Table 6 provides a breakdown of Delta
 9 recreation expenditures estimated by the DPR survey.

10

11

Table 6: Delta Recreation Expenditures in 1995

Activity / Expenditure	Average Expenditure Per Trip (2006 \$)		Estimated Expenditures for All Trips in 1995 (2006\$)		Total Annual (2006 \$) 1000 Dollars
	Inside Delta Dollars	Outside Delta Dollars	Inside Delta 1000 Dollars	Outside Delta 1000 Dollars	
Boating					
Lodging	31.55	16.62	56,306	29,660	85,966
Food	50.25	31.71	89,690	56,588	146,278
Supplies	68.26	53.08	121,824	94,731	216,555
Recreation	32.83	24.90	58,591	44,433	103,024
Total Boating	182.89	126.31	326,411	225,412	551,823
Fishing					
Lodging	39.76	43.23	66,499	72,306	138,805
Food	39.27	37.24	65,682	62,282	127,964
Supplies	41.07	54.30	68,685	90,828	159,513
Recreation	26.70	27.97	44,664	46,783	91,447
Total Fishing	146.80	162.74	245,530	272,199	517,729

^{xi}Note that total expenditures for boating and fishing cannot be added together. Adding them would result in double counting because many registered boaters are licensed anglers and vice-versa. The total annual expenditure estimates therefore provide a lower-bound estimate of recreation spending in the Delta.

12

13 An economic impact analysis using the DPR survey data done by UC Berkeley
 14 economists in 1998 concluded that Delta recreation had a sizeable impact on the Delta
 15 economy.^{xii} Using regional economic models of the Delta and California, this study
 16 estimated that Delta recreation contributed \$587 million (2006 dollars) to the Delta
 17 economy in 1995 and supported approximately 8,000 jobs in the Delta. These figures
 18 represent about 1.7% of income and 3.2% of employment in the Delta in 1995.

19

20 For the state as a whole Delta recreation contributed just over one billion dollars
 21 (2006 dollars) to the California economy and supported approximately 14,000 jobs.

Recreation

14

Written by: David Mitchell

Context Memorandum: Recreation

Iteration 1: June 12, 2007

- 1 Sacramento and Yolo Counties, and the FWS Stone Lakes Refuge. There are also
- 2 public recreation facilities operated by the East Bay Regional Park District, San Joaquin
- 3 County, and DWR, as well as a number of cities, including Antioch, Pittsburg, Rio Vista,
- 4 West Sacramento, Sacramento, and Stockton.

6 Figure 1 shows the location of public and private recreation locations in the Delta.

8 Table 3: Favorite Recreation Activities Among Delta Boaters and Anglers

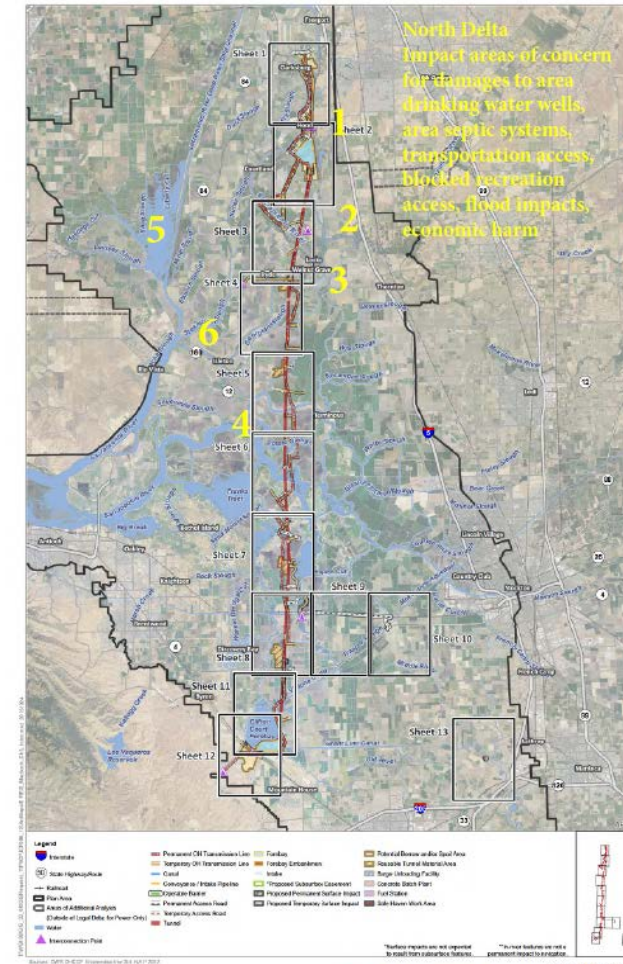
MAJOR BOATING AND FISHING ACTIVITIES					
RANK	BOATERS	PERCENT	RANK	ANGLERS	PERCENT
1	Fishing from boat	77	1	Fishing from boat	88
2	Cruising	76	2	Fishing from shore	74
3	Swimming from boat	71	3	Fishing in tournament	14
4	Water skiing	61			
5	Sleeping in boat	49			
6	Sailing	15			
7	Hunting from boat	5			

TOP TEN ACTIVITIES AFTER BOATING AND FISHING					
RANK	BOATERS	PERCENT	RANK	ANGLERS	PERCENT
1	Sightseeing	45	1	Sightseeing	52
2	Viewing wildlife	41	2	Boating	49
3	Fishing from shore	40	3	Viewing wildlife	49
4	Picnicking	34	4	Swimming	40
5	Hiking	32	5	Hiking	39
6	Swimming from shore	30	6	Picnicking	37
7	Attend special events	28	7	Nature photography	25
8	Nature photography	21	8	Attend special events	25
9	RV camping	20	9	RV camping	23
10	Visit historical/cultural sites	18	10	Visit historical/cultural sites	23

9

DWR testimony estimates impacts to Boating recreation but what about All the other recreation activities?

SHR-2-23



Add to the above biking, farm foraging and wine tasting!

3.3 Environmental Setting

SHR-2-102.pdf

Figure 1 is a map of the Bay-Delta Estuary that was included in the 2006 Bay-Delta Plan. The map depicts the location of monitoring stations used to collect baseline water quality data for the Bay-Delta Estuary and stations used to monitor compliance with water quality objectives set forth in the Bay-Delta Plan.

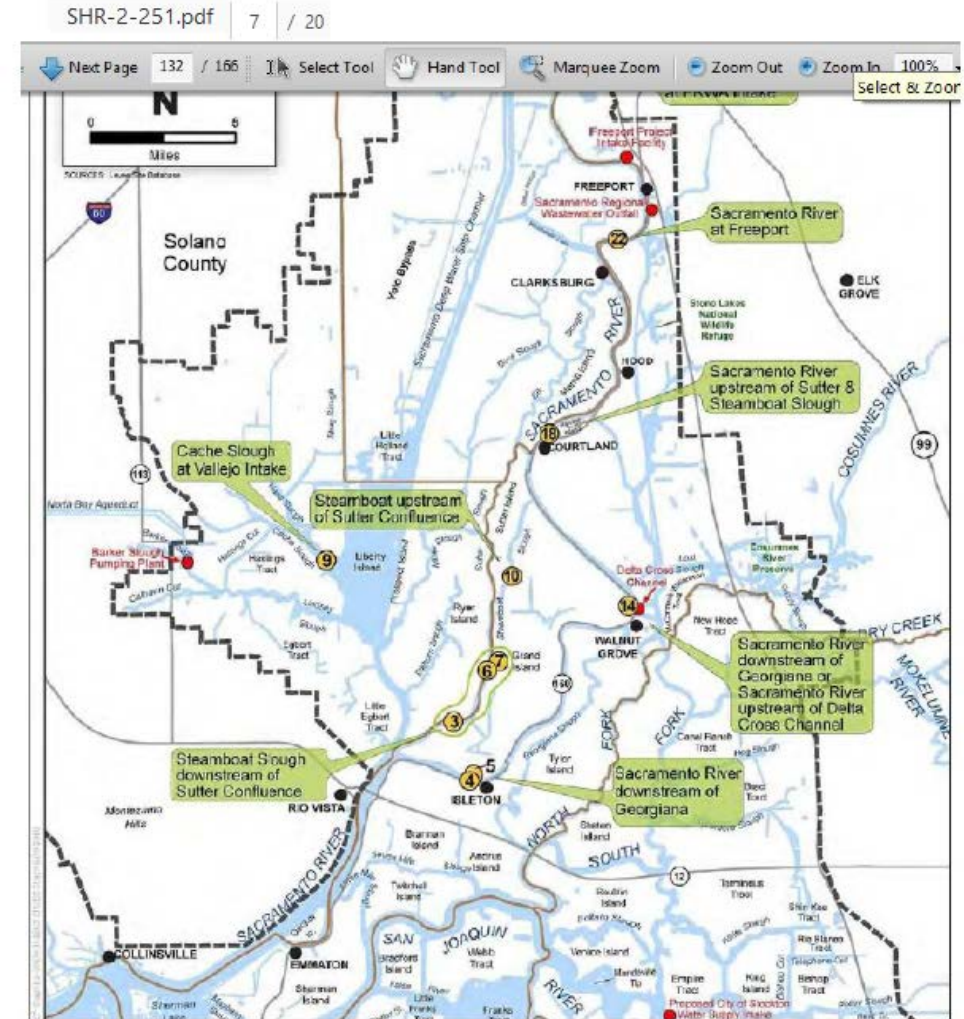
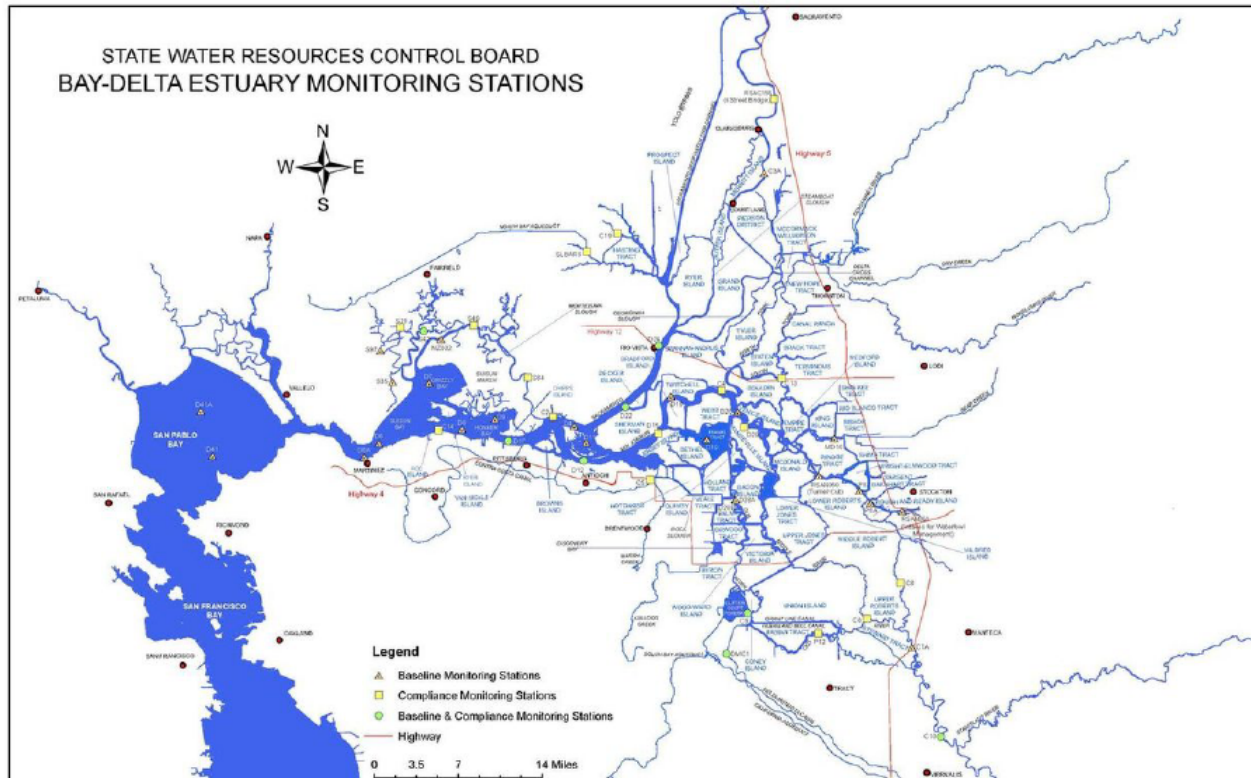


Figure 5C.4-27. Bench Habitat Analysis Sites

- 10-sediment insertion and bench test resulted in raising bed of waterway
- 6,7 Large trees placed in waterway near banks to capture sediment & reduce waterway navigation and use in this area
- 3 bench built up and planted with tules but was infested with egeria densa which is not suitable for salmonids. Also causes flood control issues as bench reduces water outflow in high flow times.

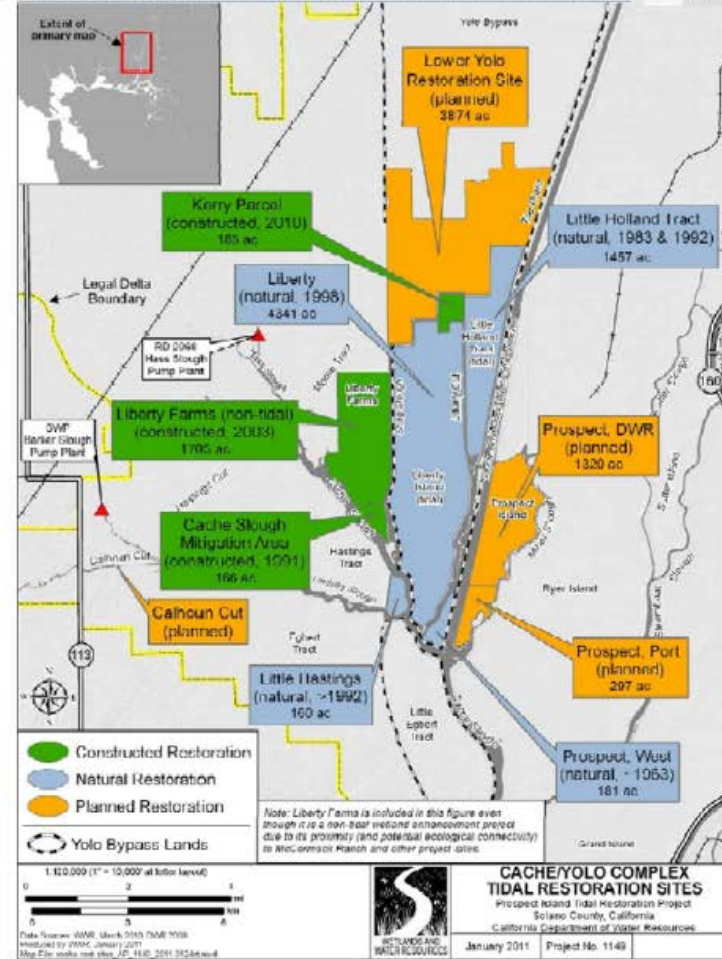
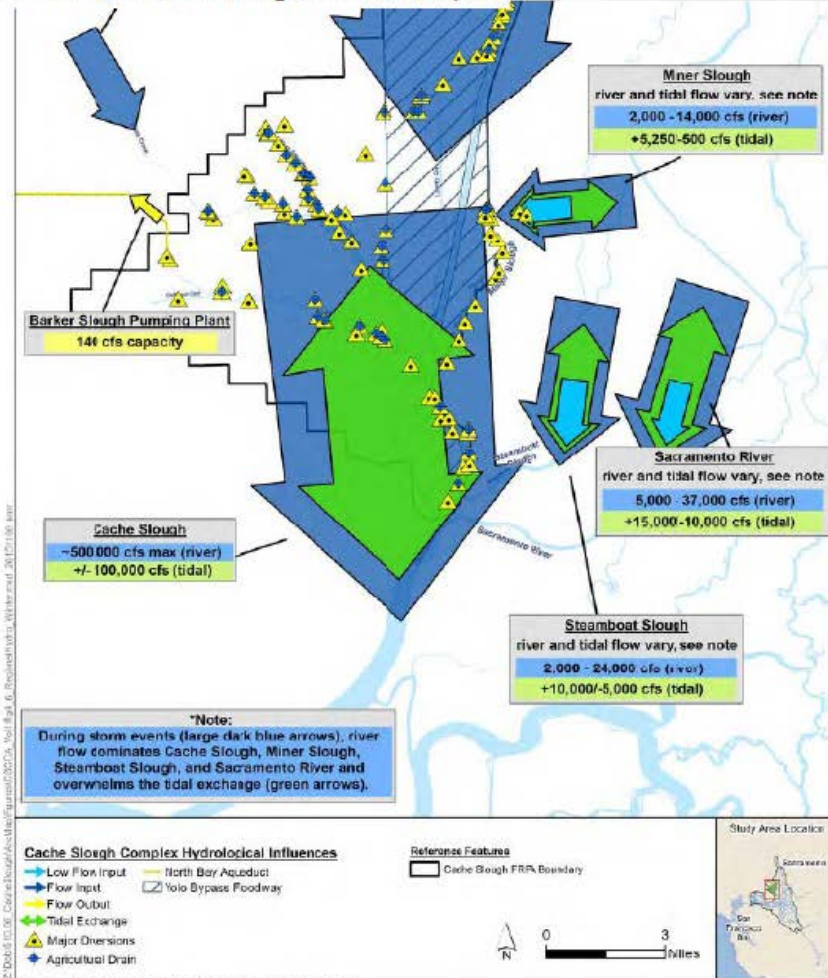
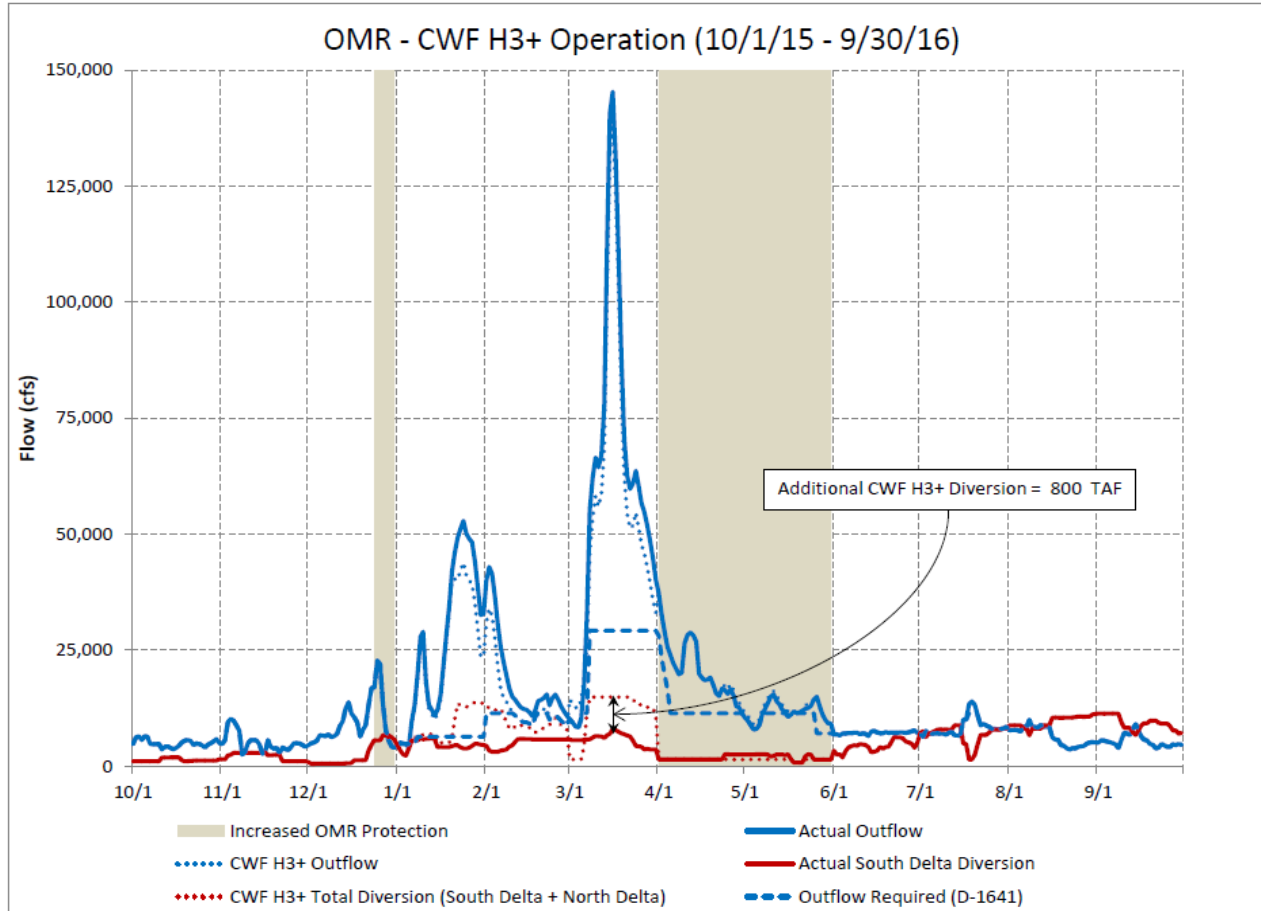


Figure 4-6: Regional Hydrology - Winter Cache Slough Complex Conservation Assessment

DWR-1034



CWF H3+ Operations Criteria

The Table included below summarizes the new and existing water operations criteria for CWF H3+ operational scenario adopted in the July 2017 CWF Certified Final EIR (SWRCB-109, SWRCB-108). This information is also found within Table 3.3-1 located in Revised BA (DWR-1142), Table 3.3-1 of NMFS CWF BO Appendix A2 (SWRCB-106), and Table 6.1-2 in the USFWS CWF BO (SWRCB-105).

The exact definition of the CWF H3+ spring outflow criteria is provided in the Section 5.3.2.3.2 *Effects of Spring Outflow* of the CWF ITP application (DWR-1036 page 5-28). The Table below reflects the CWF H3+ spring outflow criteria that was proposed, modeled, adopted by DWR in the Certified Final EIR, and included in the NMFS CWF BO and USFWS CWF BO.

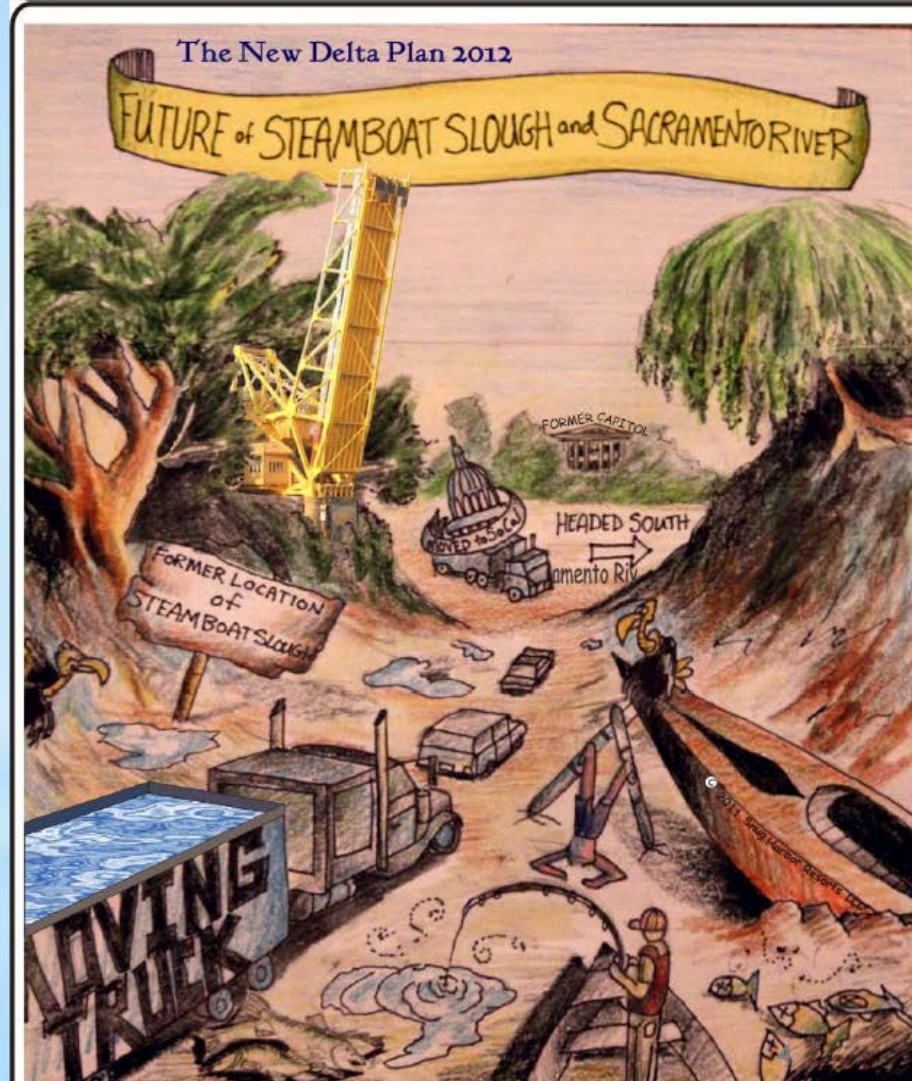
Parameter	Criteria	Source of the Criteria
New Criteria Included in the Proposed Action		
North Delta bypass flows ²⁸	<ul style="list-style-type: none"> • Bypass Flow Criteria (specifies bypass flow required to remain downstream of the North Delta intakes): <ul style="list-style-type: none"> ◦ October, November: Minimum flow of 7,000 cfs required in river after diverting at the North Delta intakes. ◦ December through June: see below ◦ July, August, September: Minimum flow of 5,000 cfs required in river after diverting at the North Delta intakes. • Pulse Protection: <ul style="list-style-type: none"> ◦ Low-level pumping of up to 6% of total Sacramento River flow at Freeport such that bypass flow never falls below 5,000 cfs. No more than 300 cfs can be diverted at any one intake. ◦ Low level pumping maintained during the pulse protection period. ◦ Pulse is determined based on the real-time monitoring of juvenile fish movement as described in Section 3.3.3.1 <i>North Delta Diversion</i> ◦ If the initial pulse begins and ends before Dec 1, the bypass flow criteria for 	<ul style="list-style-type: none"> • New operational criteria used in CWF H3+ • These criteria are included within the NMFS and USFWS biological opinions, and CDFW Incidental Take Permit for California WaterFix

²⁷ In coordination with NMFS, USFWS, and CDFW, several updates to CWF operational criteria were made during the ESA and CESA consultation processes. An analysis was performed (model results submitted to USFWS on 5/5/17) to determine if the updated operational criteria would result in additional effects outside of those analyzed in this BA. The modeling results confirmed the effects of the operational updates are within the range analyzed in the BA. As a result, the PA effects analysis in Chapters 5 and 6 are representative of potential project effects and no additional analysis is necessary.

²⁸ Sacramento River flow upstream of the intakes to be measured flow at Freeport. Bypass flow is the Sacramento River flow quantified downstream of the Intake # 5. Sub-daily north Delta intakes' diversion operations will maintain fish screen approach and sweeping velocity criteria

SHR-2-105 reviews impacts from the low flows of the last 10 years, and questions who Has been responsible for flow reporting because there has been substantial mistakes in reports

SHR-2-105.pdf 4 / 39

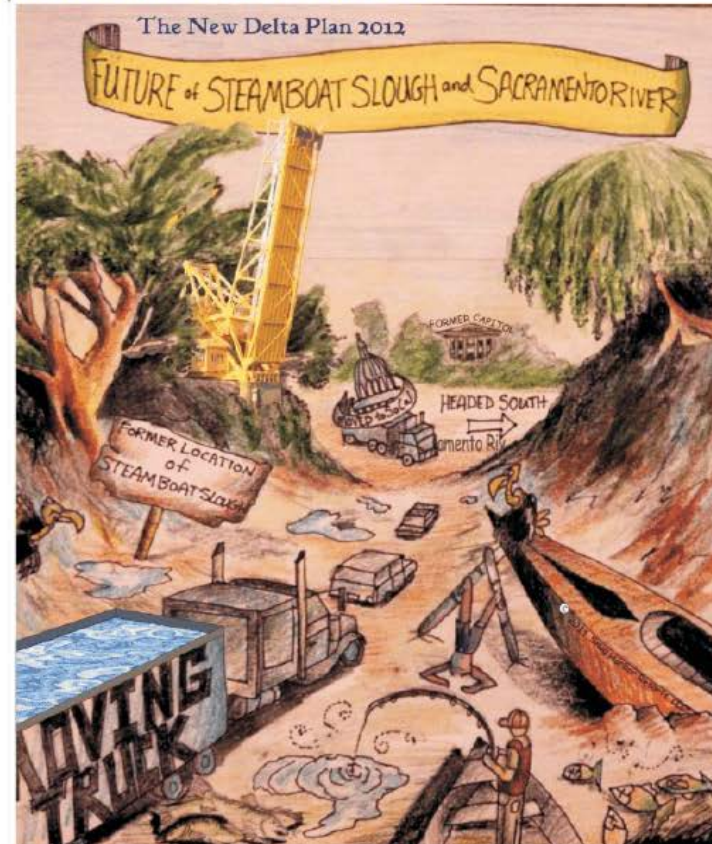
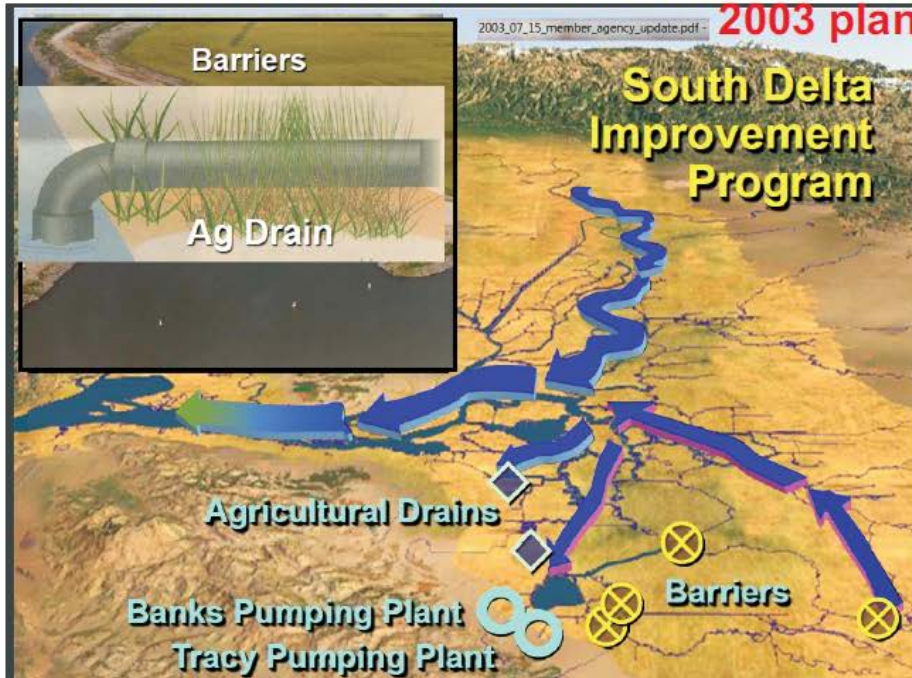


* Over the last 10 years, it is the Delta that has been left with a “computed” surplus or what was left behind from the export pumps and new north-of-the-Delta diversion intakes.

5/15/2014

SUMMARY OF THE 2015 BARRIERS PROPOSALS, AND POSSIBLE LONG TERM IMPACTS FROM BARRIER INSTALLATION: WHO BENEFITS, WHO SUFFERS THE CONSEQUENCES

DRAFT



Barriers for Delta waterways have been proposed for various reasons over the years. The next few pages review barrier proposals from 1998 to 2015, with a focus on function, who benefits from the proposed barriers, and who suffers the negative impacts from proposed barriers.

They can change the names but its all the same game-flow

Graphics and data compiled by N. Suard, Esq, a Delta land and business owner located on Steamboat Slough. Presentation April 3, 2015

2.4.2 Delta Hydrodynamics

Human management of water and changes to the physical structure of the Delta have significantly changed the timing, magnitude, and flow paths through the Delta, with adverse effects on fish and wildlife. During the summer-fall dry season, the Delta channels essentially serve as a conveyance system for moving water from reservoirs in the north to the CVP and SWP export facilities, which are operated jointly under the Coordinated Operations Agreement, as well as the smaller CCWD facility, for subsequent delivery to farms and cities in the San Joaquin Valley, southern California, and/or other areas outside the watershed (Kimmerer 2002a).

The CVP Delta facilities consist of the C.W. "Bill" Jones Pumping Plant (formerly Tracy Pumping Plant), Tracy Fish Collection Facility, and Delta-Mendota Canal (DMC). Along with these facilities, Reclamation directs the operation of the DCC to improve the transfer of water from the Sacramento River to the pumping plant (Reclamation 2009). The design capacity of the Jones Pumping Plant is 4,600 cfs, but until 2012 a variety of factors, including subsidence in the DMC, limited the maximum pumping rate to approximately 4,200 cfs. In April 2012, an intertie (two 108-inch-diameter pipes) was completed from the SWP to the CVP. The intertie allows up to 900 cfs to gravity flow from the California Aqueduct to the DMC. Completion of the intertie is expected to have some effects on the tidal elevations at the DMC intake and smaller effects on tidal elevations, flows, and velocities in south Delta channels (Reclamation 2009). Water is pumped by the Jones Pumping Plant into the

Scientific Basis Report in Support of New and Modified Requirements for Inflows from the Sacramento River and its Tributaries and Eastside Tributaries to the Delta, Delta Outflows, Cold Water Habitat, and Interior Delta Flows

Prepared By:

State Water Resources Control Board
California Environmental Protection Agency
P.O. Box 100
Sacramento, CA 95812-0100

With Assistance From:

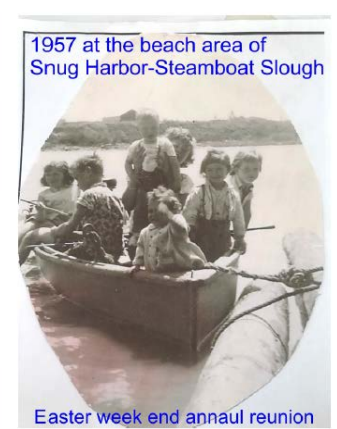
ICF
630 K Street, Suite 400
Sacramento, CA 95814



Snug Harbor Resort on Steamboat Slough in th 1950's July low tide



1957 family reunion at Snug Harbor on Steamboat Slough. Sitting at the beach area Easter week end.



1957 at the beach area of Snug Harbor-Steamboat Slough

Easter week end annaul reunion



Prepared at the Request of the Hearing Officers in the CA WaterFix Water Rights Change Petition based upon Protestant Comments on Wednesday, February 28, 2018.

Parameter	Criteria	Source of the Criteria
Spring Outflow	<p>March, April, May: Initial operations will maintain the March–May average delta outflow that would occur with existing facilities under the operational criteria described in the 2008 USFWS BiOp and 2009 NMFS BiOp (U.S. Fish and Wildlife Service 2008; National Marine Fisheries Service 2009).³⁹</p> <p>Consistent with description provided in the Section 5.3.2.3.2 <i>Effects of Spring Outflow</i> of the CWF 2081(b) ITP application (DWR-1036), March outflow targets are determined based on the Eight River Index and achieve the targets with export curtailments down to a minimum of 1,500-cfs exports; the March outflow target is capped at 44,500 cfs at an Eight River Index of 4,217 TAF and greater (Table 5.3-1 of the CWF 2081(b) ITP application and Table 6.1-4 of USFWS CWF BiOp). For Apr-May, the 2009 NMFS BiOp action IV.2.1 (San Joaquin River i-e</p>	<ul style="list-style-type: none"> • New operational criteria used in CWF H3+ • Further modified in CDFW Incidental Take Permit for California WaterFix Condition of Approval 9.9.4.3; and, subject to the clarification letter provided by CDFW to DWR dated Oct 18, 2017 (https://www.waterboards.ca.gov/waterights/water_issues/programs/bay_delta/california_waterfix/exhibits/exhibit107/docs/20171018cdfw_clarificationmemo.pdf).



July 2017 low tide on the Sacramento River in Walnut Grove. Even though it was a record rain winter, DWR is still diverting so much flow away from the Delta that the river is at drought levels each low tide for part of the month

Prospect Island water hyacinth farm, for distribution of the plant to areas of the North Delta



GOPR0870



http://water.ca.gov/floodsafe/ezproc/environmental/dev/grandisrevveg.cfm

File Edit View Favorites Tools Help

bing

Home Newsroom Flood & Safety Planning State Water Project Funding Environment Supply & Use Data

Climate Change Delta Initiatives Environmental Services IEP Water Conditions FESSRO All Environment Topics...

DWR Home → FESSRO → DEE → Habitat Enhancement → Projects → Grand Island Riparian Revegetation Project

FloodSAFE
Environmental Stewardship and Statewide Resources Office

Environmental Restoration and Enhancement

- Delta Ecosystem Enhancement
- Urban Streams
- Fish Passage
- Salton Sea
- Watershed Program

Delta Ecosystem Enhancement


Projects

- Map of Projects
- Mitigation
- Enhancement

About Us

- Services
- Partnerships
- Staff Directory

Lower Sacramento River Riparian Revegetation Project



Tule plantings as of June 2003 (left). Tule plantings after several years of establishment (2013, right).

Enhancement Projects

- (12) Decker Island
- (13) Dutch Slough Tidal Habitat Restoration
- (14) Grand Island Bank Revegetation
- (15) Mayberry Farms
- (16) McCormack Williamson Tract (Corp. Levee Improvement Project)
- (17) Sherman Island Sotbuck Levee

Background

The Lower Sacramento River Riparian Revegetation Program is a joint feasibility study between the U.S. Army Corps of Engineers, Department of Water Resources, The Reclamation Board and the Metropolitan Water District of Southern California. Its purpose is to evaluate and develop methods for restoring and enhancing riparian and channel riparian habitat along the Sacramento River without affecting the flow capacity from



Summer 2015 Hogback County Park boat launch not useable





Bending of the bolts to break and to crack at mud



* Current Impacts from the low water flows on the Sacramento River into the Delta: dry docking marinas

9/19/2014

9/19/2013 View of the open water on Prospect Island where the "restoration" area is full of water hyacinth. Within a week or two, someone had moved the water weeds into Miner's Slough and then down into the open waters of Cache Slough-just in time to annoy the salmon and striped fishermen for the Rio Vista derby!

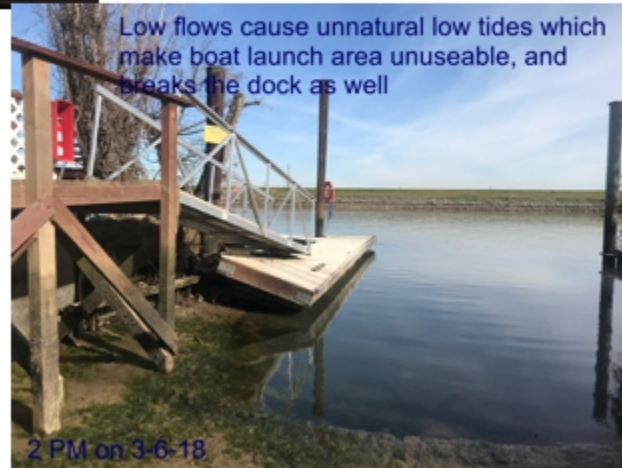


Lower Steamboat Slough gage

03/06/2018 07:30	-1,292
03/06/2018 07:45	39
03/06/2018 08:00	1,347
03/06/2018 08:15	3,018
03/06/2018 08:30	4,538
03/06/2018 08:45	5,696
03/06/2018 09:00	6,720
03/06/2018 09:15	7,377
03/06/2018 09:30	7,622
03/06/2018 09:45	7,922
03/06/2018 10:00	8,121
03/06/2018 10:15	8,241
03/06/2018 10:30	8,303
03/06/2018 10:45	8,350
03/06/2018 11:00	8,452
03/06/2018 11:15	8,449
03/06/2018 11:30	8,454
03/06/2018 11:45	8,428
03/06/2018 12:00	8,382
03/06/2018 12:15	8,398
03/06/2018 12:30	8,356
03/06/2018 12:45	8,320
03/06/2018 13:00	8,245
03/06/2018 13:15	8,155
03/06/2018 13:30	8,035
03/06/2018 13:45	7,853
03/06/2018 14:00	7,685
03/06/2018 14:15	7,348
03/06/2018 14:30	6,900
03/06/2018 14:45	6,439
03/06/2018 15:00	5,751
03/06/2018 15:15	5,022
03/06/2018 15:30	4,151
03/06/2018 15:45	3,220
03/06/2018 16:00	2,466
03/06/2018 16:15	1,940
03/06/2018 16:30	1,489
03/06/2018 16:45	955
03/06/2018 17:00	540



3/6/18 low tide at 2:30 PM (14:30 est)
Notice how low tide is causing damage to docks that were never in this low of tide

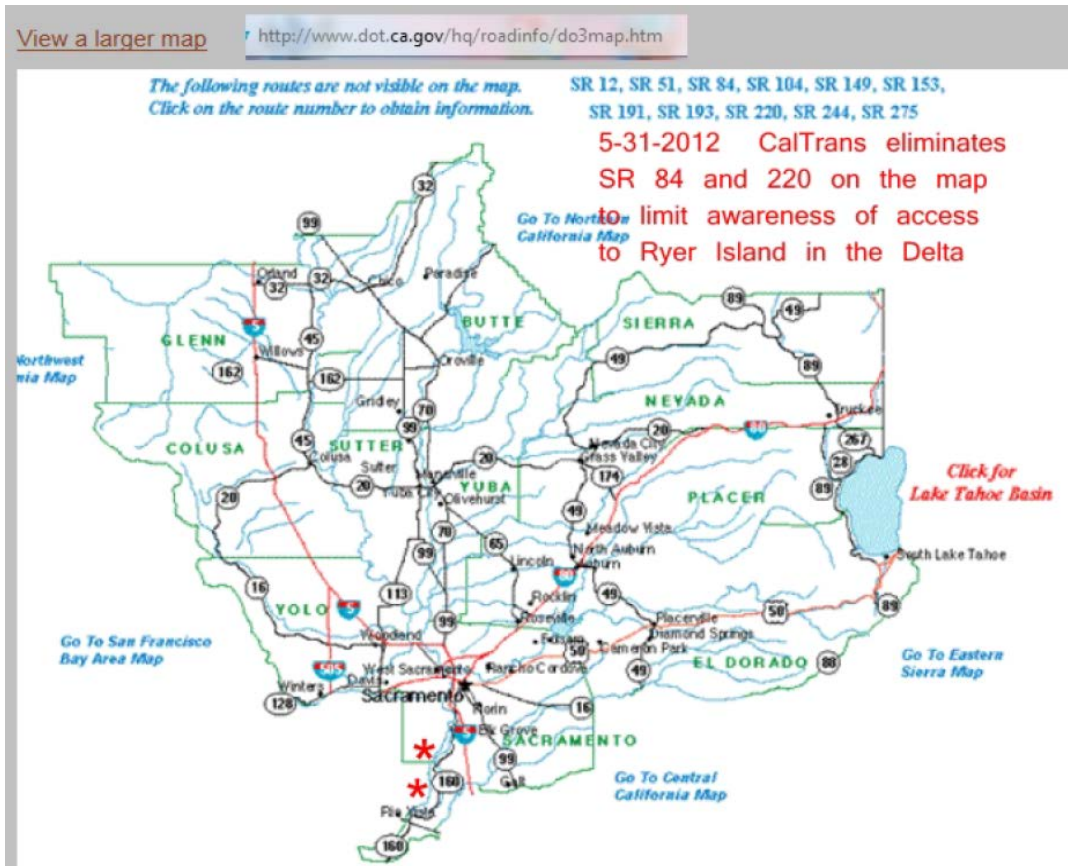


Low flows cause unnatural low tides which make boat launch area unuseable, and breaks the dock as well

2 PM on 3-6-18

03/06/2018 07:45	5.72	235
03/06/2018 08:00	5.78	426
03/06/2018 08:15	5.79	889
03/06/2018 08:30	5.78	1,600
03/06/2018 08:45	5.75	2,040
03/06/2018 09:00	5.69	2,410
03/06/2018 09:15	5.62	2,850
03/06/2018 09:30	5.54	3,160
03/06/2018 09:45	5.47	3,360
03/06/2018 10:00	5.39	3,490
03/06/2018 10:15	5.32	3,620
03/06/2018 10:30	5.24	3,720
03/06/2018 10:45	5.16	3,830
03/06/2018 11:00	5.09	3,860
03/06/2018 11:15	5.00	3,920
03/06/2018 11:30	4.92	3,920
03/06/2018 11:45	4.84	4,020
03/06/2018 12:00	4.76	4,030
03/06/2018 12:15	4.68	4,070
03/06/2018 12:30	4.60	4,090
03/06/2018 12:45	4.52	4,090
03/06/2018 13:00	4.44	4,120
03/06/2018 13:15	4.36	4,110
03/06/2018 13:30	4.29	4,120
03/06/2018 13:45	4.21	4,130
03/06/2018 14:00	4.13	4,120
03/06/2018 14:15	4.06	4,130
03/06/2018 14:30	3.99	4,070
03/06/2018 14:45	3.92	4,090
03/06/2018 15:00	3.86	4,070
03/06/2018 15:15	3.80	4,030
03/06/2018 15:30	3.76	4,020
03/06/2018 15:45	3.73	3,970
03/06/2018 16:00	3.72	3,850
03/06/2018 16:15	3.73	3,620
03/06/2018 16:30	3.76	3,450
03/06/2018 16:45	3.82	3,240
03/06/2018 17:00	3.88	2,920

Upper Steamboat Slough gage



Roads/Transportation

SHR-2-17.pdf 5 / 17

- Detour roads needed for all intakes, temporary access roads constructed from each intake pumping plant to Sacramento River levee, and permanent roads build for intake site perimeter access road. *EIR/EIS, page 3C-60.*
- Indirect effects on existing land uses may also arise from changes in access to parcels of land. For example, the removal of access for agricultural vehicles and machinery could jeopardize the ability of that land to continue serving productive agricultural uses. The loss of access would not be considered an adverse effect under this impact. *EIR/EIS, Land Use Chap, page 13-116.*
- All construction related trucks are expected to generate eight trips per day. *EIR/EIS, Transportation Chap 19, page 19-35.*
- Level of Service (LOS) thresholds are exceeded on a total of 16 roadway segments for at least 1 hour during the 6:00 am to 7:00 pm analysis period. LOS is a qualitative measure of traffic operating conditions. See Table 19-3. *EIR/EIS, Transportation Chap 19, page 19-7.*
- Potential construction site access routes do not currently have adequate engineered pavement sections to withstand construction traffic, particularly heavy vehicles. *EIR/EIS, Transportation Chap 19, page 19-13.*
- Construction associated with Alt 4 would cause LOS thresholds to be exceeded for at least 1 hour during the 6:00 am to 7:00 pm analysis period on a total of 33 roadway segments, which is 10 more segments than have at least one hour exceeded under existing conditions. *EIR/EIS, Transportation Chap 19, page 19-40.*
- Figure 19-3 shows the study roadway segments that could experience substantial roadway effects. The highest concentration of roadway segments below applicable LOS threshold occurs on state roadways, including SR-12, I-80, SR-4, and I-205. Standards will also be exceeded on several local roadways, including all segments studied in West Sacramento. *EIR/EIS, Transportation Chap 19, page 19-163.*
- Mitigation Measures TRANS-1a thru 1c collectively include requirements to avoid or reduce circulation effects, notify the public of construction activities, provide alternate

Did SR 84 get renamed 160? Also note that a “detour” in the Delta can Mean adding 2-4 hours to your travel time due to bridge use and limits On weight allowed on the ferrys. For construction projects located on the East side of the Sacramento River, ALL construction traffic should be required to come from the east, not through the Delta, and not use SHR 84 or 160 or whatever new name and number CalTrans plans to use.

CalTrans sign in Walnut Grove by the bridge, confusing people trying to get to Rio vista from Hwy 5 when Hwy 12 was blocked in the Delta

<http://www.dot.ca.gov/dist4/publicaffairs/docs/rte12160mapfront.pdf>

2-4-14: Ferry at SR still broken and, by way, when did SR 84 become 160?

Rte 12/160 Detours

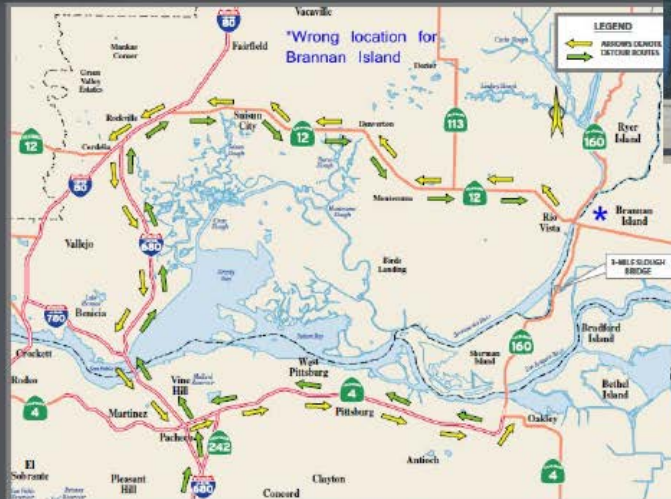
REPAIR CONTRACT FOR 3-MILE SLOUGH BRIDGE NIGHTLY CLOSURES OF STATE ROUTE 160 IN APRIL NO THROUGH TRAFFIC ON 160 RIO VISTA-ANTIOCH CLOSURE INFORMATION

Beginning Thursday, April 1 and continuing through Friday, April 30, State Route 160 (Highway 160) will be closed each night to all through traffic between Rio Vista and Antioch from 9:00 p.m. to 5:00 a.m. the following morning. Only local traffic will be allowed on SR 160 south of Rio Vista or north of the Antioch Bridge. The nightly closures of Route 160 will be in effect every night in April and under all weather conditions to facilitate the necessary repairs to the 3-Mile Slough Bridge.

TRAFFIC DETOURS

Changeable message signs have been strategically placed throughout the detour routes in both directions to assist in guiding motorists through the detour to destination points ending in Antioch and Rio Vista. These message signs will provide advanced closure notice prior to April 1, and then activated nightly through April to direct traffic during the closure of the 3 Mile Slough Bridge on Highway 160 between Rio Vista and Antioch. Please keep in mind that these detours could add more than 90 minutes to your travel time.

Traffic from the Rio Vista area with destination points in and around Antioch will be detoured via State Route 12 west to and onto westbound Interstate 80 and west.



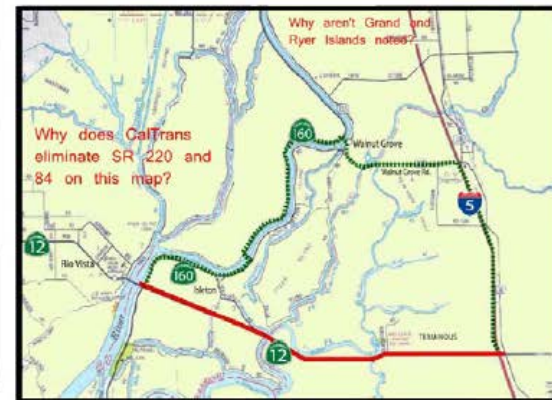
on I-80 to and south onto I-580 at the Cordelia Junction (I-580/I-680 interchange). Continue south on I-680 across the Benicia-Martinez Bridge and then east onto State Route 4 (about 2.8 miles south of Bridge) at the I-680/Route 4 interchange in Concord. Continue

east on Route 4 to destination points and detour end in Antioch. Traffic from the Antioch area with destination points in and around Rio Vista, will be detoured via Route 4 west to and then north onto I-680 and continue north on I-680 to and onto I-80 east at the I-80/I-680

Interchange (Cordelia Junction). From I-80 east take Route 12 east, and continue east on SR 12 to destination points and detour end just east of Rio Vista at the Routes 12/160 intersection.



5-31-2012 Another intentionally misleading map from CalTrans Hwy 12 Detour Route (Ruta de Desvio)



Construction Zone (LIMITED LOCAL ACCESS ONLY) Zona de Construcción (SOLAMENTE ACCESO LIMITADO LOCAL)
 Detour Route Ruta de Desvio

Delta Flows

- BDCP will fundamentally change the hydrodynamics of the Delta. *Chap 5, page 5.3-2.*
- The Sacramento River diversions into the proposed north Delta intakes along the Sacramento River between Freeport and Hood are the primary cause of BDCP changes in Delta flows. *Chap 5, page 5.3-7.*
- The BDCP is expected to result in changes in flows primarily as a result of the change in export location (new north Delta intakes) and its associated specified changes in monthly Delta operational objectives, namely, required salinity objectives, outflow objectives, export/inflow objectives, OMR flow objectives, and maximum exports. *Chap 5C.1-1.*
- Reduces some Sacramento River flows. *Chap 5, page 5.3-2.*
- Overall, there would be minimal upstream changes but some substantial shifts in how water moves through the Delta. *Chap 5, page 5C.0-1.*
- Restoration of 65,000 acres of tidal marsh (CM4) could result in changes in turbidity and tidal excursion in specific Delta locations and subregions. *Chap 5, page 5C.0-2.*
- In the North Delta, flow patterns will be altered by the increased diversions to the Yolo Bypass (CM2) and operations of the new north Delta intake facilities (CM1). *Chap 5, page, 5.3-2.*
- The average modeled annual inflow at Freeport for the evaluated starting operations was reduced by about 650,000 af compared to existing conditions, primarily as a result of the increased Fremont Weir Spills (CM2). *Chap 5, 5.3-3.*
- The months with the greatest changes in Freeport flows for the high outflow scenario cases are increased flows in April and May, with reduced flows in June and July, caused by reduced reservoir storage from high spring releases and the goal of maintaining the existing biological condition carryover storage. The months with the major changes in Freeport flows for the low outflow scenario cases were reduced flow in September of about half of the years, with smaller reduction in November in fewer years. The Freeport median flows in January, February, and March for the evaluated starting ops cases were about 3,000 cfs less than existing conditions flows, reflecting the increased spills at the Fremont Weir into the Yolo Bypass (CM2). The Freeport median flows for the evaluated starting ops cases in July and August were reduced by about 3,000 cfs compared to existing conditions flows because of changes in upstream reservoir releases. The evaluated starting ops north Delta intakes allowed higher exports in April, May, and June and subsequently allowed reduced reservoir releases and reduced exports in July and August. *Chap 5, page 5.3-4.*
- The general effect of each intake is the reduction of the downstream flow by about 3,000 cfs (when operated at capacity). *Chap 5, page 5.3-6.*
- The evaluated starting ops outflows were slightly less than existing outflows because the north Delta intakes allowed higher exports in some months when the reverse OMR flow restrictions were limiting south Delta exports. The monthly median outflows in Oct thru Dec were generally controlled by the required Delta outflow in most years; higher outflows (more than 15,000 cfs) were simulated in only a few years. *Chap 5, page 5.3-16.*
- The highest monthly outflows were simulated in January thru March with many years having more than 50,000 cfs outflow in at least one month. Median outflow for the

about 1.5 feet. The flows were always positive, but the tidal variation was reduced from 6,000 cfs to about 5,000 cfs. *Chap 5, page 5.3-37.*

- A decrease of 6,000 cfs in the Sacramento River could result in as much as a 3-foot reduction in river stage, although understanding of how notch flows would affect river stage is incomplete. *Chap 5, page 5C.5.4-6.*
- *** The tunnels call for 9000 cfs export, so would that result in a 4.5 foot reduction in river stage? If operated at capacity, or 15,000 cfs, doesn't that equate to -6.5 or worse reduction in tide?

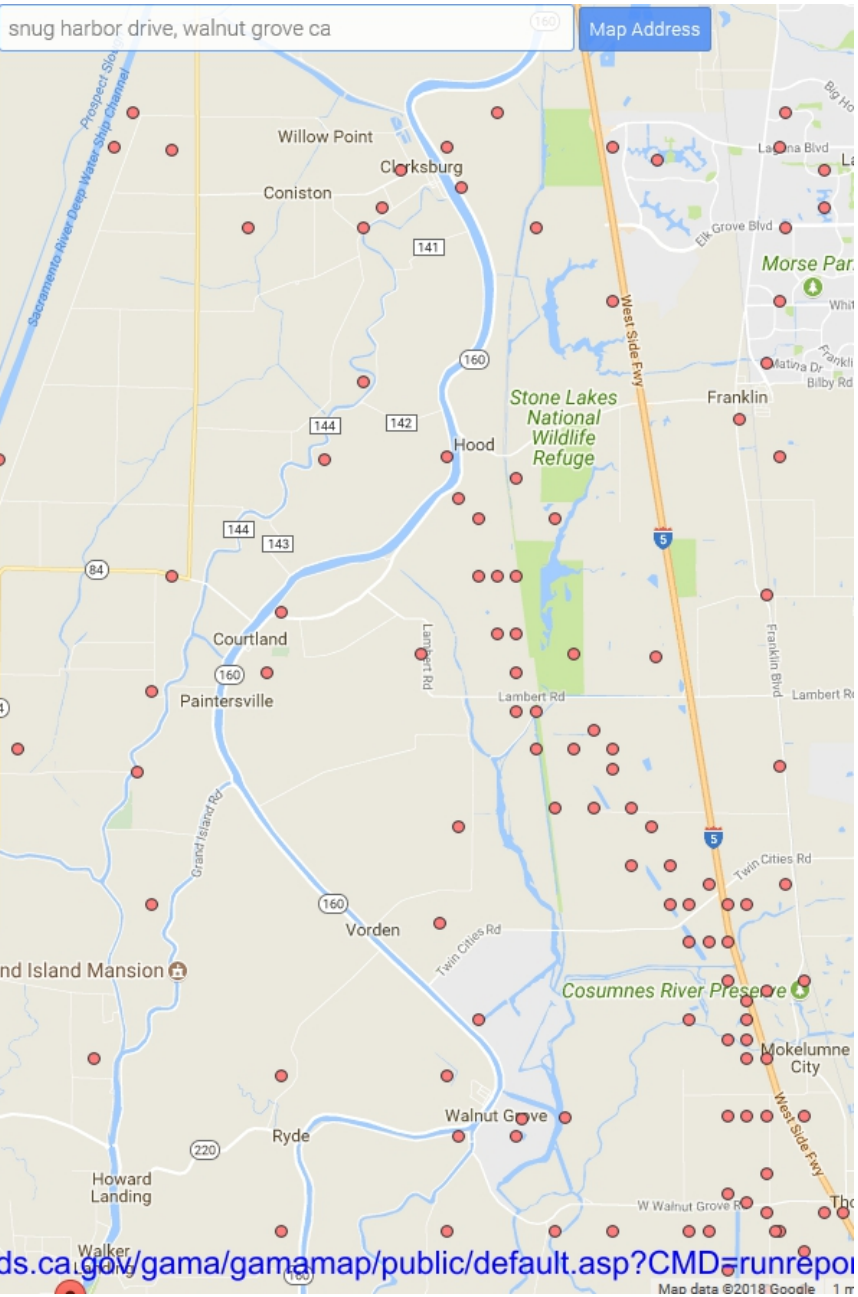
Salinity

- There may be changes in salinity in some Delta locations caused by tidal flow missing effect from restoration actions and sea level rise. *Chap 5, page 5.3-3.*
- Delta outflow is the primary driver of salinity in the Delta and of the X2 position. *Chap 5, page 5.3-16.* If there is no freshwater outflow in summer months on the lower Sacramento between Walnut Grove and Viera's, nor on Steamboat and Sutter Sloughs, how much salinity will encroach into these historically freshwater areas?
- In addition to flows from new north Delta intakes, BDCP habitat restoration may modify hydrodynamics in the Delta. These hydrodynamic changes in turn can change salinities, DO, turbidity, and flows. *Chap 5, page 5C.1-1.*
- Because Delta outflow is the major factor determining salinity in the Delta channels, these salinity objectives are satisfied by increasing Delta outflow (normally by reducing exports). The D-1641 salinity objectives are assumed to apply to the EBC and the BDCP cases (ELT and LLT). *Chap 5, page 5C.2-4.*

Pumping/Water OpsNew North Delta Intakes

- Operations result in changes in flow and potentially changes in water quality, habitat, and predation. *Chap 4, page 4-20.*
- The general effect of each north Delta intake is the reduction of the downstream flow by about 3,000 cfs (when operated at capacity). *Chap 5, page 5.3-6.*
- Always a downstream "bypass flow" requirement (e.g. 5,000 cfs in July thru Sept; 7,000 cfs in October thru Nov; and 10,000 cfs December thru June). *Chap 5, page 5.3-7.*
- There almost always will be a net downstream tidal flow (sweeping velocity) below the operating north Delta intakes [doesn't say when or how often or why there won't be downstream tidal flow below intakes]. *Chap 5, page 5.3-7.* Imagine that the lowest of the intakes on the Sacramento River is operated full blast which then has the effect of pulling the water down river, creating greater velocity at the upper pumps. This is one way all freshwater could be diverted from the Sacramento River north of Walnut Grove. Require that the intake pumps be surface pumps, not bottom pumps, to assure fresh water is left on the Sacramento River?
- Modeling of the intakes included a downstream sweeping velocity criteria of 0.4 foot per second. *Chap 5, page 5.3-7.* How many cfs is this and why the change to a different reporting method?
- Major north Delta diversions could not begin until the Sacramento River flow was greater than a threshold of about 10,000-15,000 cfs. *Chap 5, page 5C.2-5.*

GEOTRACKER GAMA



Select Data to Display

Select a Data Category:

- Groundwater Well Locations
- Wells with Groundwater Chemical Data
- Groundwater Elevation / Depth Data

Select Datasets: (INFO)

- Department of Pesticide Regulation
- Department of Water Resources
- GAMA - Domestic Wells
- GAMA - Special Studies
- GAMA - Priority Basin Project
- Irrigated Lands Program (Central Coast RB)
- Local Groundwater Projects
- Monitoring wells (Water Board Regulated Sites)
- Public Water System Wells - **Access Actual Locations**
- National Water Information System (NWIS)

Chemical Data Filter:

Any Chemical

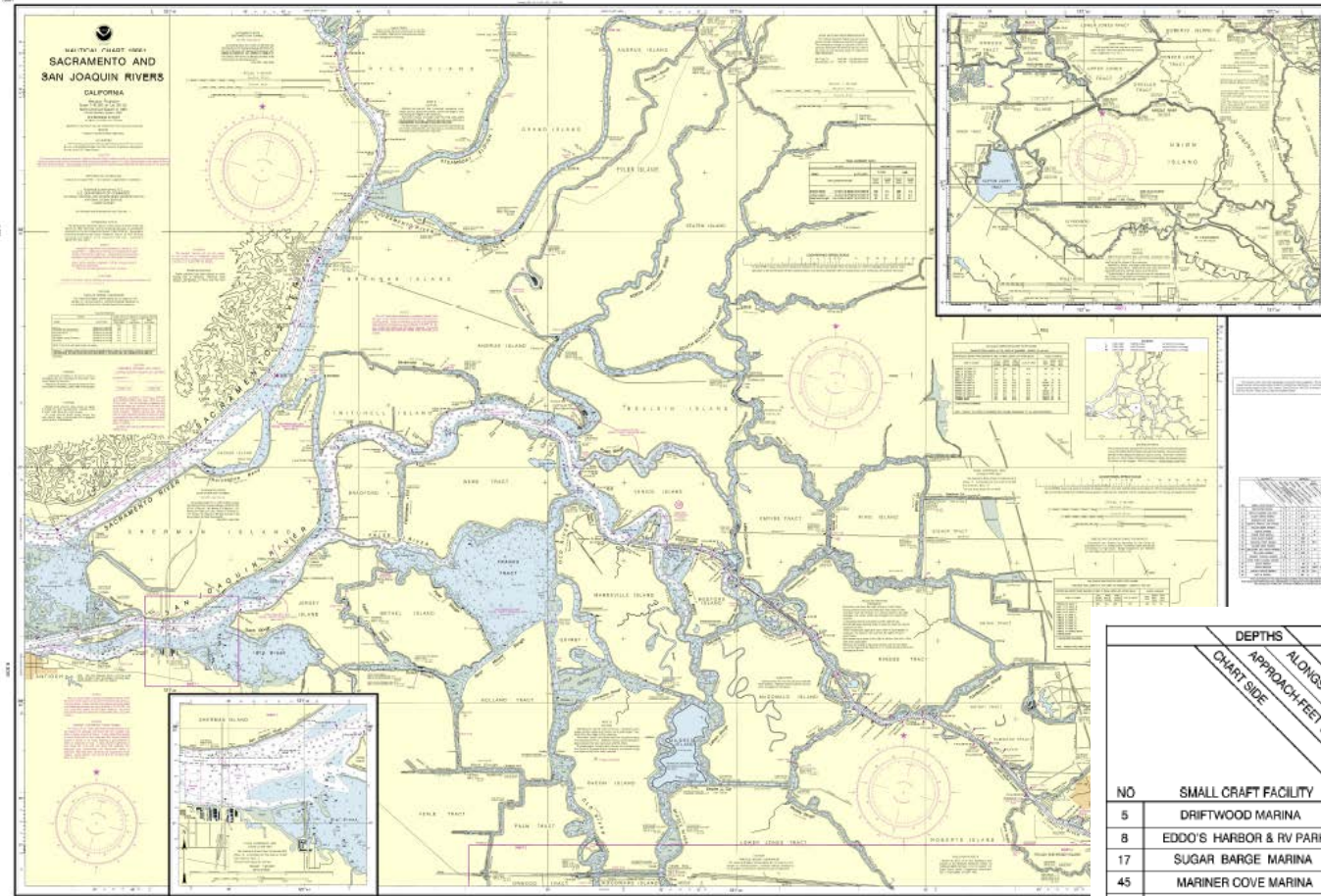
All Years Only Show Results Above Comparison Concentration

Run My Query

- Filters / Data Export**
- Tools**
- Reports and Well Logs**
- Map Coverages**
- GeoTracker Sites**

[CONTACT US](#) [TAKE A TOUR](#) [VIEW ON GEOTRACKER](#)

<https://geotracker.waterboards.ca.gov/gama/gamamap/public/default.asp?CMD=runrepor>



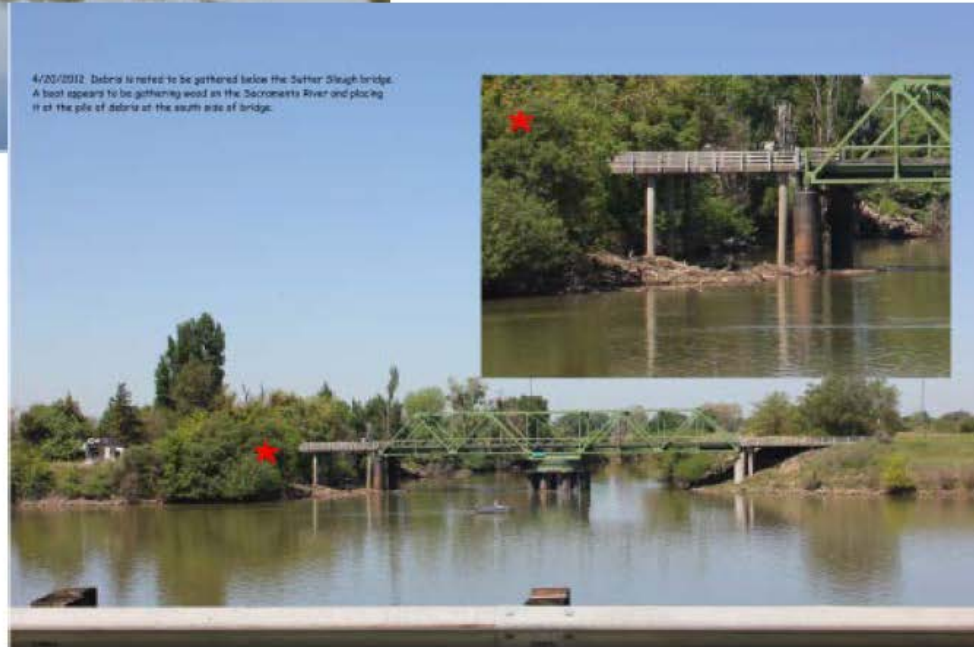
NO	SMALL CRAFT FACILITY	DEPTHS		SERVICES				SUPPLIES				CHART SIDE			
		APPROACH-FEET (REPORTED)	ALONGSIDE-FEET (REPORTED)	BOAT RENTAL	LIFT CAPACITY-TONS	BOAT RENTAL	FOOD-LODGING-CAMPING	WATER	WATER	WATER	WATER				
				REPAIRS	MARINE HULL-MOTOR-RADIO	RAILWAY-FEET	CANOE-ROW-MOTOR-KAYAK	TOILETS-SHOWERS-LAUNDRY	WINTER STORAGE	NAUTICAL CHART SALES	GROCERIES-HARDWARE	BAIT-TACKLE	DIESEL OIL-GASOLINE		
5	DRIFTWOOD MARINA	B	6	6	B E									G	
8	EDDO'S HARBOR & RV PARK	B	5	8	B E S					F C				WI G BT G	
17	SUGAR BARGE MARINA	B	10	6	BME S	M	10	M	F C	TSLP	WD C	WI GH	BT DG		
45	MARINER COVE MARINA	B	12	12	B E			C M		C	TSLP	WD	WI GH	G	
50	KORTH'S PIRATES LAIR MARINA	A	6	10	ME S					F	TSLP	WD	WI	G	
52	WILLOW BERM MARINA	A	13	13	B E						TSLP	W	WI	DG	
56	OXBOW MARINA	A	8	8	B E	M				F	TSLP	W C	WI GH	BT DG	
59	TOWER PARK MARINA	A	22	20	ME S M			M H	FLC	TSLP	WD C	WI GH	BT DG		
62	KING ISLAND RESORT	B	10	12	BME S					F	TSLP	WD	WI G	BT G	
64	PARADISE POINT MARINA	B	8	8	BME S	HM	12	M H	F	TSLP	WD C	WI GH	BT G		
65	VILLAGE WEST MARINA	B	10	10	B E S					F	TSLP	WD	WI	DG	
65A	DISCOVERY BAY YACHT HARBOR	A	15	25	B E S M		2			F	TS P	WD C	WI GH	BT DG	
71	TIKI LAGUN MARINA	B	14	12	BME S					F C	TSLP	WD C	WI GH	BT G	
72	WHISKEY SLOUGH HARBOR	A, B	9	11	B E S					F C	TS P	D	WI	BT G	
74	RIVER POINT LANDING MARINA	B	10	5	B E S		6			FLC	TSLP	WD	WI G	DG	
84	DELTA MARINA	A	5	6	ME S M					F C	TSLP	C	WI H T	DG	
87	VIEIRA'S RESORT	A	6	3	BME S	HMR	40			FLC	TSLP	W	WI GH	BT G	
90	WALNUT GROVE MARINA	A	3	3	ME S	HM		16	C	H	F C	TSLP	W	WI GH	BT G
96	LAZY M MARINA	A	7	7	BM S					F	TS P	WD C	WI GH	BT G	

THE LOCATIONS OF THE ABOVE PUBLIC MARINE FACILITIES ARE SHOWN ON THE CHART BY MAGENTA NUMBERS AND LEADERS. THE TABULATED 'APPROACH-FEET (REPORTED)' IS THE DEPTH AVAILABLE FROM THE NEAREST NATURAL OR DREDGED CHANNEL TO THE FACILITY. THE TABULATED 'PUMP-OUT STATION' IS DEFINED AS FACILITIES AVAILABLE FOR PUMPING OUT BOAT HOLDING TANKS.

8/22/2012 Standing on the public dock at Walnut Grove, looking of the barrier across Beargates Slough on the left and the Sacramento River towards the right. Note that there is not one single log or log on the waterway. Compare this to Stearns Slough which received a huge amount of floating debris at the same time or there was no debris on the Sacramento River. Why?



4/20/2012 Debris is noted to be gathered below the Sutter Slough bridge. A boat appears to be gathering wood on the Sacramento River and placing it at the pile of debris at the south side of bridge.



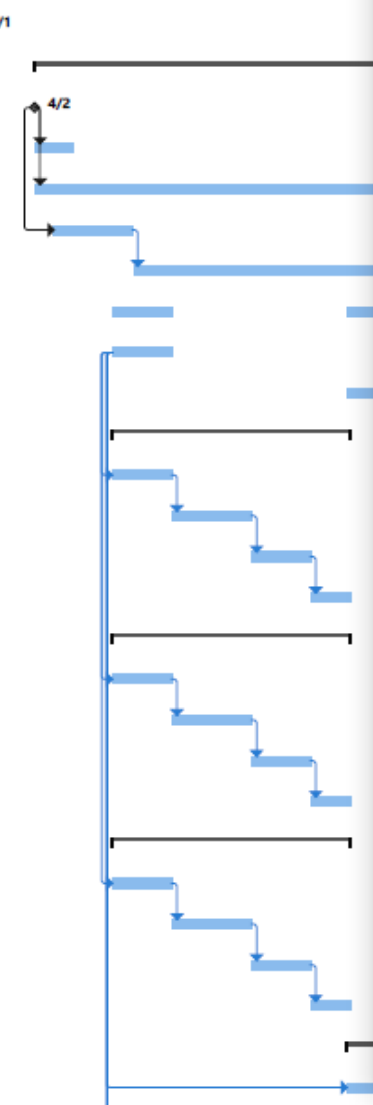
River Barges

- At least six river barge unloading facilities/docks for the delivery of construction materials (e.g., tunnel segments, batched concrete, major equipment) will be constructed located at: 1) State Route 160 west of Walnut Grove; 2) Tyler Island; 3) Bacon Island; 4) Woodward Island; 5) Victoria Island; and 6) Venice Island. Docks will be about 50 by 300 feet and supported by about 32 two-foot diameter steel piles. Will be removed following construction (no restoration of site mentioned). *Chap 4, page 4-11.*

- Approx 3,000 barge trips are projected, averaging 1 trip per day thru 9-yr-long construction period. *EIR/EIS, page 19-170.*

Barge Landings Construction Schedule

ID	ID	Task Name	Duration	Start	Finish
1	1				
2	2	Barge Landings	743 days	1/1/18	11/4/20
3	3	Construction Phase Start	0 days	1/1/18	1/1/18
4	4	General Tasks	678 days	4/2/18	11/4/20
5	5	Barge Landings NTP	0 days	4/2/18	4/2/18
6	6	Contractor mobilization	44 days	4/2/18	5/31/18
7	7	Contractor staff	656 days	4/2/18	10/5/20
8	8	Erect temp contracor facilities	88 days	5/2/18	8/31/18
9	9	Operate temp facilities	568 days	9/3/18	11/4/20
10	10	In-Water Work Window for Barge Landings	327 days	8/1/18	10/31/19
11	11	In-Water Work Window for Barge Landings 1	66 days	8/1/18	10/31/18
12	12	In-Water Work Window for Barge Landings 2	66 days	8/1/19	10/31/19
13	13	Barge Landing near Clifton Court	264 days	8/1/18	8/5/19
14	14	Install piles (in-water work)	66 days	8/1/18	10/31/18
15	15	Install support structure	88 days	11/1/18	3/4/19
16	16	Cast barge deck	66 days	3/5/19	6/4/19
17	17	Finish	44 days	6/5/19	8/5/19
18	18	Barge Landing near Bouldin Island	264 days	8/1/18	8/5/19
19	19	Install piles (in-water work)	66 days	8/1/18	10/31/18
20	20	Install support structure	88 days	11/1/18	3/4/19
21	21	Cast barge deck	66 days	3/5/19	6/4/19
22	22	Finish	44 days	6/5/19	8/5/19
23	23	Barge Landing near Intermediate Forebay	264 days	8/1/18	8/5/19
24	24	Install piles (in-water work)	66 days	8/1/18	10/31/18
25	25	Install support structure	88 days	11/1/18	3/4/19
26	26	Cast barge deck	66 days	3/5/19	6/4/19
27	27	Finish	44 days	6/5/19	8/5/19
28	28	Barge Landing near Bacon Island	264 days	8/1/19	8/4/20
29	29	Install piles (in-water work)	66 days	8/1/19	10/31/19



Document Properties

Description Security Fonts Initial View Custom Advanced

Description

File: App_3.D_Construction_Schedule

Title: - 20160705 Barge Landing Construction

Author: svalles

Subject:

Keywords:

Created: 7/7/2016 7:53:39 AM

Modified: 2/6/2018 5:18:10 PM

Application: PScript5.dll Version 5.2.2

Advanced

PDF Producer: Acrobat Distiller 11.0 (Windows)

PDF Version: 1.6 (Acrobat 7.x)

Location: C:\Users\SH\2018\delta\q\

File Size: 447.28 KB (458,010 Bytes)

Page Size: 11.00 x 17.00 in

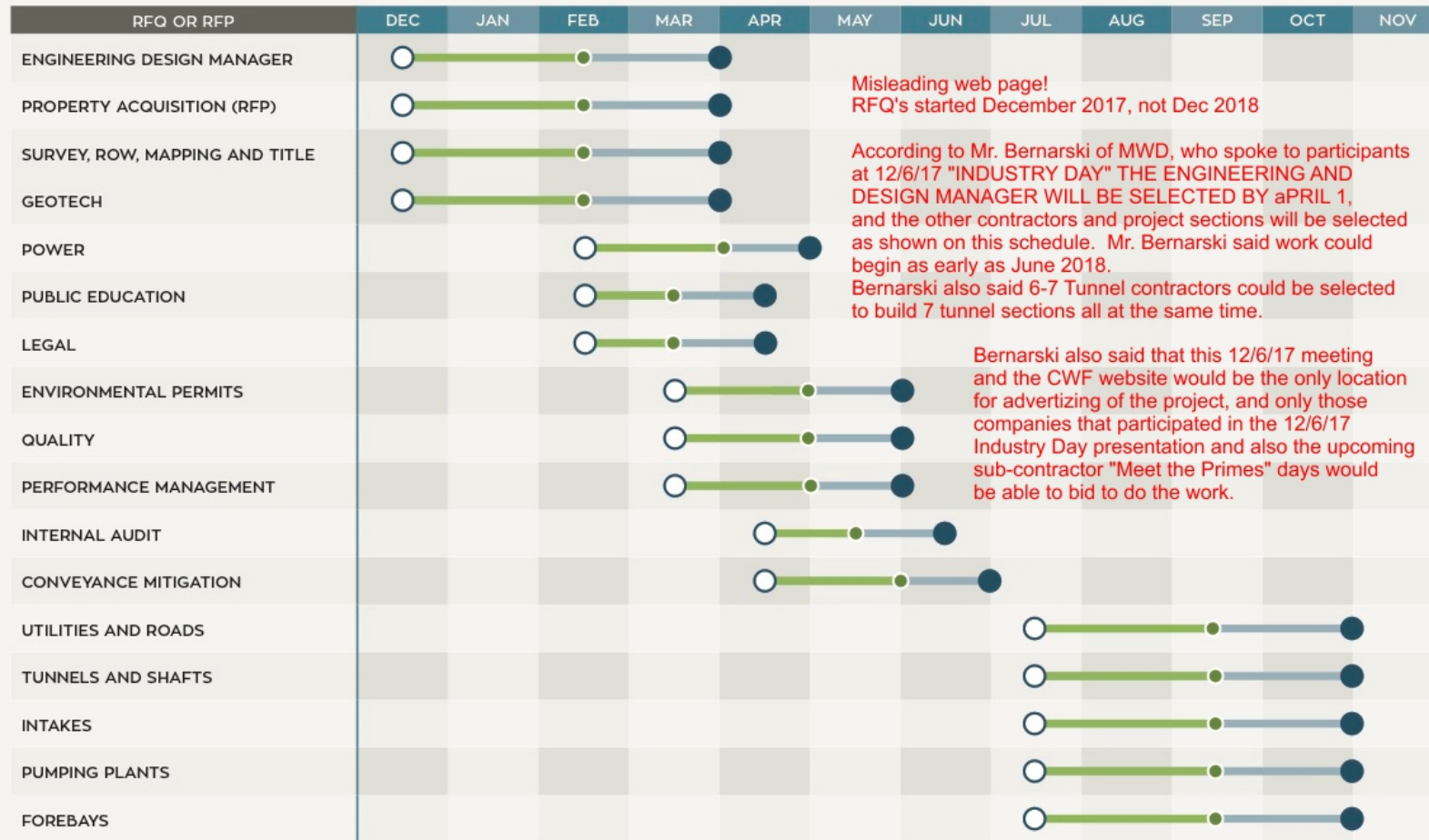
Tagged PDF: No

Help

DWR "Industry Day" December 6, 2017 and December 7, 2017 RFQ timing:

<https://californiawaterfix.com/wp-content/uploads/2017/12/RFQ-Schedule.jpg>

2018 REQUEST FOR QUALIFICATIONS (RFQ) / REQUEST FOR PROPOSALS (RFP) SCHEDULE



Misleading web page!
RFQ's started December 2017, not Dec 2018

According to Mr. Bernarski of MWD, who spoke to participants at 12/6/17 "INDUSTRY DAY" THE ENGINEERING AND DESIGN MANAGER WILL BE SELECTED BY APRIL 1, and the other contractors and project sections will be selected as shown on this schedule. Mr. Bernarski said work could begin as early as June 2018. Bernarski also said 6-7 Tunnel contractors could be selected to build 7 tunnel sections all at the same time.

Bernarski also said that this 12/6/17 meeting and the CWF website would be the only location for advertizing of the project, and only those companies that participated in the 12/6/17 Industry Day presentation and also the upcoming sub-contractor "Meet the Primes" days would be able to bid to do the work.

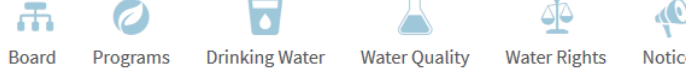
*Anticipated schedule, subject to change

○ Advertise ■ Consultant Response Period ● Consultant Response Due ■ Agency Selection Period ● Award

California WaterFix

Full Project – Staged Approach





Error: 404 – The page you requested could not be found.

The page you are looking for may have been moved. Here are some suggested links.

For other questions or assistance with our Website, please send an email to the Webmaster at: websupport@waterboards.ca.gov

- [State Water Resources Control Board Homepage](#)
 - [Water Rights Homepage](#)
 - [Drinking Water Homepage](#)

- **Regional Water Board Homepages:**
 - [North Coast \(Region 1\)](#)
 - [San Francisco Bay \(Region 2\)](#)
 - [Central Coast \(Region 3\)](#)
 - [Los Angeles \(Region 4\)](#)
 - [Central Valley \(Region 5\)](#)
 - [Lahontan \(Region 6\)](#)
 - [Colorado River \(Region 7\)](#)
 - [Santa Ana \(Region 8\)](#)
 - [San Diego \(Region 9\)](#)

- [Public Notices, Petitions and Documents for Public Comment](#)

- [Press Room](#)

- [Email Subscriptions](#)

- [Hot Topics](#)

- [Publications and Forms](#)

- [Water Boards' Strategic Plan Update](#)