

1 JOHN HERRICK, ESQ. – SBN 139125
2 LAW OFFICE OF JOHN HERRICK
3 4255 Pacific Avenue, Suite 2
4 Stockton, California 95207
5 Telephone: (209) 956-0150
6 Facsimile: (209) 956-0154

7 S. DEAN RUIZ, ESQ. – SBN 213515
8 HEATHER D. RUBINO, ESQ. – SBN 273794
9 HARRIS, PERISHO & RUIZ
10 3439 Brookside Rd. Ste. 210
11 Stockton, California 95219
12 Telephone: (209) 957-4254
13 Facsimile: (209) 957-5338

14 On behalf of Central Delta Water Agency,
15 South Delta Water Agency, Lafayette Ranch,
16 Heritage Lands, Mark Bachetti Farms
17 and Rudy Mussi Investments L.P.

18 **STATE OF CALIFORNIA**

19 **STATE WATER RESOURCES CONTROL BOARD**

20 Hearing in the Matter of California
21 Department of Water Resources and
22 United States Department of the Interior,
23 Bureau of Reclamation Request for a
24 Change in Point of Diversion for
25 California Water Fix

26 **TESTIMONY OF DANTE JOHN
27 NOMELLINI, SR. IN SUPPORT OF THE
28 SOUTH DELTA WATER AGENCY
PARTIES’ CASE-IN-CHIEF FOR PART 1B
OF THE CALIFORNIA WATERFIX
CHANGE PETITION**

29 I, Dante John Nomellini, Sr., declare:

30 1. I am the Manager and Co-counsel for the Central Delta Water Agency, I have
31 since 1976 resided on Middle Roberts Island (RD 524) where my wife and I through our
32 revocable trust own a home and the adjoining approximately 36 acres which is riparian to and
33 abuts the San Joaquin River. The salinity of the water in the San Joaquin River abutting our
34 home and in our domestic well has substantially degraded over the 40 years to the point where
35 our primary source of drinking water is now bottled.

1 2. My Statement of Qualifications (SWRCB-150) is true and correct.

2 3. The exhibits referred to herein which are copies of documents or excerpts from
3 such documents are true and correct copies. Highlighting, underlying and any notations are
4 obvious and are my additions.

5 4. Testimony

6 ~~**THE CURRENT PROCEEDINGS ARE PREMATURE AND REFLECT THE**~~
7 ~~**PREDETERMINATION OF STATE AND FEDERAL ACTION TO CONSTRUCT**~~
8 ~~**AND OPERATE AN ISOLATED CONVEYANCE FACILITY ACROSS THE DELTA**~~
9 ~~**WITH THREE NEW INTAKES ON THE SACRAMENTO RIVER.**~~

10 ~~**The Decision to Proceed with an Isolated Conveyance, i.e., Peripheral Canal/Tunnels,**~~
11 ~~**WaterFix Has Been Made in Advance of the Analysis and Preparation of the Draft**~~
12 ~~**EIR/EIS and RDEIR/SDEIS and has Destroyed the Impartiality for a Good Faith Effort**~~
13 ~~**at Full Disclosure and Analysis of Impacts, Alternatives and Mitigation.**~~

14 ~~NEPA requires full disclosure of the potential effects of major actions proposed by~~
15 ~~federal agencies and accompanying alternatives, impacts and possible mitigation. NEPA also~~
16 ~~requires that environmental concerns and impacts be considered during planning and decision~~
17 ~~making so that steps may be more easily taken to correct or mitigate the impacts of an action.~~
18 ~~Compliance with NEPA should result in more informed decisions and the opportunity to avoid~~
19 ~~or mitigate for potential environmental effects before an action is implemented. The NEPA~~
20 ~~process is intended to identify and evaluate alternatives in an impartial manner. (See~~
21 ~~Reclamation's NEPA Handbook dated February 2012.)~~

22 ~~CEQA requires adequacy, completeness and a good faith effort at full disclosure. The~~
23 ~~EIR is to inform the decision makers and the public of the environmental impact of proposed~~
24 ~~actions. (See CEQA Guidelines sections 15002 and 15003.) The purposes include identifying~~
25 ~~ways to avoid or significantly reduce environmental damage and preventing significant,~~
26 ~~avoidable damage to the environment by requiring changes in projects through the use of~~
27 ~~feasible alternatives or mitigation measures.~~

28 #

1 The environmental review for BDCP and now the California Water Fix has been
 2 orchestrated to justify the new Sacramento River Intakes and the Isolated Conveyance Facility.
 3 Such actions reflect bad faith and have resulted in inadequate disclosure and analysis of
 impacts, alternatives and mitigation.

4 1) Participation in the BDCP Steering Committee was conditioned on agreement to
 5 The Bay Delta Conservation Plan Points of Agreement for Continuing into the Planning
 6 Process dated November 16, 2007, which includes agreement to new points of diversion on the
 Sacramento River and an isolated conveyance facility.

7 The agreement provides:

8 “2.3 Conveyance Facilities

9
 10 The Steering Committee agrees that the most promising approach
 11 for achieving the BDCP conservation and water supply goals
 12 involves a conveyance system with new points of diversion, the
 13 ultimate acceptability of which will turn on important design,
 14 operational and institutional arrangements that the Steering
 Committee will develop and evaluate through the planning
 15 process. The main new physical feature of this conveyance system
 16 includes the construction and operation of a new point (or points)
 17 of diversion in the north Delta on the Sacramento River and an
 18 isolated conveyance facility around the Delta. Modifications to
 19 existing south Delta facilities to reduce entrainment and otherwise
 20 improve the State Water Project’s (SWP) and Central Valley
 21 Project’s (CVP) ability to convey water through the Delta while
 22 contributing to near and long term conservation and water supply
 23 goals will also be evaluated. This approach may provide enhanced
 operational flexibility and greater opportunities for habitat
 improvements and fishery protection. During the BDCP process,
 the Steering Committee will evaluate the ability of a full range of
 design and operational scenarios to achieve BDCP conservation
 and planning objectives over the near and long term, from full
 reliance on the new facilities to use of the new facilities in
 conjunction with existing facilities.” (Exhibit SDWA-154)
 (Emphasis added.)

24 Excluded from such planning process agreement is design and operation of the SWP
 25 and CVP without an isolated conveyance facility and/or new intake facilities on the
 Sacramento River.

26 Exhibit SDWA 153 is a copy of the January 27, 2009, letter from Karen Scarborough,
 27 Undersecretary of the State of California Resources Agency and Chair of the BDCP Steering
 28 Committee to Dante John Nomellini, Manager and Co-Counsel of the Central Delta Water

1 Agency requiring consent to the new intakes on the Sacramento River and an isolated
 2 conveyance facility. The letter provides:

3 “As you are also aware, consent to the ‘Points of Agreement’ and other
 4 prior decisions of the Steering Committee is requisite for a seat on the
 Steering Committee.”

5 _____ Exhibit SDWA 154 is a copy of The Bay Delta Conservation Plan: Points of
 6 Agreement for Continuing Into the Planning Process (November 16, 2007).

7 _____ Exhibit SDWA 155 is a copy of the August 26, 2008, letter from Dean Ruiz, attorney
 8 for the Central Delta Water Agency, to Karen Scarborough requesting membership on the
 BDCP Steering Committee.

9 _____ Exhibit SDWA 156 is a copy of the November 13, 2008, letter from Dante John
 10 Nomellini, Manager and Co-Counsel of the Central Delta Water Agency, to Karen
 11 Scarborough, et al. stating willingness to execute the October 6, 2006, Planning Agreement but
 disagreeing with the provision in the November 16, 2007 “Points of Agreement.”

12 _____ 2) _____ The Department of Water Resources as lead agency for CEQA and the United
 13 States Department of Interior’s Bureau of Reclamation as a co-lead agency under NEPA are
 14 both signatories to the March 2009 Memorandum of Agreement Regarding Collaboration On
 15 the Planning, Preliminary Design and Environmental Compliance for the Delta Habitat
 16 Conservation and Conveyance Program in Connection With the Development of the Bay Delta
 17 Conservation Plan. The Memorandum includes the above referenced November 16, 2007,
 18 Points of Agreement to construct and operate an isolated conveyance facility as Exhibit 2
 19 thereto. Said Memorandum is Exhibit SDWA 157. DWR and the USBR are both signatories
 20 to the December 15, 2011, First Amendment To The Memorandum of Agreement Regarding
 21 Collaboration On the Planning, Preliminary Design and Environmental Compliance For The
 22 Delta Habitat Conservation and Conveyance Program In Connection With the Development of
 the Bay Delta Conservation Plan. Said First Amendment confirms the ongoing commitment to
 the BDCP and DHCCP including the March 2009 MOA which is Exhibit SDWA 157 and
 further references in paragraph J. the November 2007 “Points of Agreement.” The First
 Amendment dated December 15, 2011, is Exhibit SDWA 158.

23 3) _____ The Draft EIS/EIR is written in a manner advocating the Conservation Strategy of the
 24 BDCP plan which is to construct and operate an isolated conveyance as a standalone
 conveyance or as part of dual conveyance and is evidence that the decision is predetermined.
 25 The lack of objective and impartial presentation and analysis is apparent. The Executive
 Summary for the Bay Delta Conservation Plan SWRCB-5 at page 10 sets forth the
 Conservation Strategy for “Water Flow and Conveyance” as follows:

26 “Water Flow and Conveyance

27 Water flow and conveyance conservation measures provide for the
 28 development and operation of new water conveyance infrastructure and

1 the establishment of operational parameters associated with existing and
 2 new facilities. New north Delta intake facilities along the Sacramento
 3 River will divert water through state of the art positive barrier fish screens
 4 into an isolated tunnel/pipeline to the south Delta. In conjunction with the
 5 existing south Delta facilities (referred to as dual operations), this
 6 improved operational flexibility will improve conditions for covered fish
 7 species and restore water supply reliability. Water diversion rates and
 8 bypass flows in the Sacramento River at the north Delta diversions will be
 9 informed by seasonal movement patterns of covered fish species. The
 10 conservation measures summarized in the following sections are discussed
 11 in detail in Chapter 3, Conservation Strategy.” (Emphasis added.)

8 The Executive Summary for the BDCP Draft EIR/EIS (November 2013) Exhibit
 9 SWRCB-4 at page ES-1, paragraph 3 provides:

10 “... The BDCP is a comprehensive conservation strategy for the
 11 Sacramento-San Joaquin Delta (Delta) to advance the planning goal of
 12 restoring ecological functions of the Delta and improving water supply
 13 reliability in the state of California. The conservation strategy is designed
 14 to restore and protect ecosystem health, water supply, and water quality
 15 within a stable regulatory framework. The BDCP reflects the outcome of
 16 a multiyear collaboration between DWR, Reclamation, state and federal
 17 fish and wildlife agencies, state and federal water contractors,
 18 nongovernmental organizations, agricultural interests, and the general
 19 public. The BDCP sets out a comprehensive conservation strategy for the
 20 Delta designed to restore and protect ecosystem health, water supply, and
 21 water quality within a stable regulatory framework through the following:

- New and/or modified state water conveyance facilities and
 operation of the SWP and the CVP in the Delta.” (Emphasis added.)

20 At page ES-2, it is provided:

21 “The conservation strategy is based on the best available science and was
 22 built upon the following broad conservation goals.” (Emphasis added.)

23 These statements issued in advance of the completion of the EIR/EIS process
 24 reflect the predetermination and intended lack of objectivity in the preparation of the
 25 environmental documents and analysis.

26 4) The pretense that the isolated conveyance facility was a Conservation Measure
 27 (CM1) has been removed however the lack of good faith effort at full disclosure remains. Two
 28 forty foot (40ft) diameter tunnels 35 miles long which have the capacity depending on intakes
 to convey 15,000 cfs or more of water from the Sacramento River to the export pumps with no
 outlets for maintaining Delta water quality certainly do not constitute a measure to protect and
 enhance the unique cultural, recreational and agricultural values of the Delta as an evolving

1 place. During much of the time the capacity of the tunnels to direct water will exceed the flow
 2 available in the Sacramento River at the intake location. As clearly demonstrated the SWP and
 3 CVP have not developed sufficient supply to meet the desires of contractors or even the
 4 preconditions to their permits to operate. There is no basis to assume that regulatory restraints
 5 will not continue to be avoided through emergency actions and there is no basis to assume that
 6 water supply will be developed in sufficient quantities to meet regulatory requirements, senior
 obligations and contractual desires. Disregarding operation the impacts of construction and the
 physical facilities themselves will severely damage the Delta in violation of the statutory
 mandate to protect and enhance.

7 ~~5) Top Public official actions have gone far beyond simple preference of a~~
 8 ~~particular project and have resulted in the lack of impartiality of the public agencies under their~~
 9 ~~direction which is necessary to a good faith full disclosure in the environmental documents.~~

10 ~~Jerry Brown, Governor of the State of California has been emphatic in his advocacy of~~
 11 ~~the BDCP tunnels. See Exhibit SDWA-159 which is a May 28, 2014 Article wherein he is~~
 12 ~~quoted as saying "I just want to get sh*t done,". "Sh*t" appears to be the BDCP tunnels which~~
 13 ~~are the alternative to his previously emphatically supported peripheral canal, but with no~~
 14 ~~outlets to maintain Delta water quality. Those within the Governor's Department of Water~~
 15 ~~Resources and Department of Fish and Wildlife (agencies responsible for good faith full~~
 16 ~~disclosure in the BDCP EIR/EIS) would be fools to misread the direction from the top. They~~
 17 ~~have not misread the direction.~~

18 ~~Secretary of Interior Ken Salazar, the head of the U.S. Bureau of Reclamation~~
 19 ~~and U.S. Fish & Wildlife Service has also signaled his emphatic support for the BDCP Tunnels~~
 20 ~~in remarks to the Commonwealth Club, San Francisco, CA, September 19, 2011, Exhibit~~
 21 ~~SDWA-160. After referencing debate raging in Washington, D.C. relating to water supplies~~
 22 ~~we depend on in the west. He explains:~~

23 ~~"It's a battle between pragmatism and ideology.~~
 24 ~~Collaboration versus cynicism."~~

25 ~~"In California's Bay Delta, a plan to modernize and secure~~
 26 ~~the State's aging and inadequate water system is always the target~~
 27 ~~of pot shots. Yet the bottom line is the health of the Delta is~~
 28 ~~inextricably linked to the security of safe and reliable water~~
 supplies."

~~Mr. Salazar goes on to provide:~~

~~"That solution is the Bay Delta Conservation Plan.~~
 The Bay Delta Conservation Plan is the most important and most
 complex long term water and habitat management plan ever
 undertaken.

1 ~~The BDCP provides a comprehensive approach that includes new~~
 2 ~~habitat for endangered fish species, coordinated measures to attack~~
 3 ~~toxics that are fouling delta waters, and improvements to the~~
 4 ~~state's water infrastructure.~~

5 ~~Rather than simply pumping water from north to south through the~~
 6 ~~Delta — which places immense strain on the system and is~~
 7 ~~unreliable — a new conveyance system would reduce direct~~
 8 ~~conflicts between water supply and fisheries, as the Delta Vision~~
 9 ~~Blue Ribbon Task Force and many independent scientists have~~
 10 ~~recommended.~~

11 ~~This type of a comprehensive approach is long overdue. — We~~
 12 ~~simply must find a way to put California on a path to restore the~~
 13 ~~delta and protect in-Delta interests — while also securing a more~~
 14 ~~reliable water supply for its future. These are the 'co-equal goals'~~
 15 ~~required by the landmark law that the California legislature passed~~
 16 ~~in 2009.~~

17 ~~That's why, for the past two and a half years, my Department has~~
 18 ~~committed a vast amount of energy to advancing the BDCP."~~

19 ~~———— The reference to "a new conveyance system" rather than "simply pumping water from~~
 20 ~~north to south through the Delta" is to the BDCP common strategy for Water and Conveyance~~
 21 ~~which is the "isolated tunnel/pipeline to the south Delta". Mr. Salazar's characterization of~~
 22 ~~criticism as "pot shots" does not encourage those within his departments to make a good faith~~
 23 ~~disclosure of adverse impacts of the project which he apparently favors.~~

24 ~~———— It would appear that those public officials who will control the decisions have~~
 25 ~~moved well beyond support to a predetermination to move forward with the isolated~~
 26 ~~conveyance in advance of completion of the EIR/EIS process.~~

27 ~~———— 6) — Further evidence of the predetermination of proceeding with the isolated~~
 28 ~~Tunnel/pipeline conveyance prior to completion of the EIR/EIS is the Department of Water~~
 29 ~~Resources establishment of an organization within the Department called the Delta~~
 30 ~~Conveyance Facility Design and Construction Enterprise to support the design and~~
 31 ~~construction of Conservation Measure 1. See Exhibit SDWA 161. In a presentation to the~~
 32 ~~Metropolitan Water District of Southern California, Special Committee on the Bay Delta Mark~~
 33 ~~Cowin, Director of the Department of Water Resources was quoted as saying:~~

34 ~~"So that's what I wanted to say about the DCE," he said. — "The~~
 35 ~~memo that I put out to all staff as Randall indicated, really is just~~
 36 ~~our first steps as an organization to prepare ourselves for~~
 37 ~~implementation of this project so we're taking our existing~~
 38 ~~resources and starting to move them into an organization that can~~
 39 ~~engage both with the DCE and ultimately with the implementation~~

1 office for BDCP as well.” (Exhibit SDWA-162) (Emphasis
2 added.)

3 ~~_____ The candid admission by Jerry Meral, then Deputy Secretary of Resources who
4 was quoted to say:~~

5 ~~“BDCP is not about, and never has been about saving the delta.
6 The delta cannot be saved.”~~

7 ~~is further evidence that there has been a predetermination as to the construction of the isolated
8 conveyance facility. See Exhibit SDWA-163.~~

9 ~~_____ The isolated conveyance is the only measure for which the BDCP EIR/EIS provides
10 project level review. The lack of inclusion of Delta levee improvements as part of the project to
11 facilitate export operation when the Sacramento River intakes cannot be safely operated lends
12 more weight to the evidence that going forward with the isolated conveyance has been
13 predetermined. The State administration determination is contrary to State law which requires
14 that the unique cultural, recreational, natural resource and agricultural values of the Delta be
15 protected and enhanced and that water shall not be diverted from the Delta for use elsewhere
16 unless adequate supplies for the Delta are first provided.~~

17 ~~_____ In April of 2015, before completion of environmental review, the Design and
18 Construction Enterprise (DCE) developed a CM1 Property Acquisition Management Plan
19 focused only on Alternative 4 which includes the Sacramento River intakes and the isolated
20 tunnels along the chosen route for Alternative 4A. This planning effort focus on only one
21 alternative and one route is yet another commitment of resources to the single preferred
22 alternative thus inhibiting objective review of other alternatives. See Exhibit SDWA-164.~~

23 ~~_____ On August 25, 2015 the DWR and USBR submitted to the SWRCB a petition for
24 change in their specific water permits to allow the three new intakes on the Sacramento River
25 for Alternative 4A. This commitment of resources and reflection of intent to move forward
26 with Alternative 4A and only 4A is yet another confirmation of the predetermination for new
27 intakes on the Sacramento River and the isolated conveyance tunnels. See Exhibit SWRCB-1.~~

28 ~~On August 27, 2015 California Natural Resources Secretary John Laird gave an update
to a committee of the San Diego Water Authority explaining the split of the tunnel project into
two projects. He explained “By doing two 30-mile tunnels and by doing habitat restoration, it
lowers the amount of approval that needs to be done, and you can move ahead with the
habitat...” “I should just say that the Governor is very committed to doing this,” he said, “He
wants to get it done. One of the interesting things in working for him is that he is fearless. He
says what he really thinks; it doesn’t matter how unpopular it is, if he thinks it’s in the long-
term interest, he is determined to spend whatever capital it takes to get it done, and this is on
that list for him.” The predetermination as to the tunnels is again confirmed. See Exhibit
SDWA-165.~~

1 ~~On September 21, 2015 the USACE gave notice that the DWR applied for a permit to~~
 2 ~~place fill material in approximately 775.02 acres of waters of the United States to construct and~~
 3 ~~operate a new water conveyance facility consisting of three intakes along the Sacramento River~~
 4 ~~and dual tunnels conveying up to 9,000 cubic feet per second of water to the existing Clifton~~
 5 ~~Court Forebay. See Exhibit SDWA-166. This application is specific to the 4A tunnels and~~
 6 ~~three Sacramento intakes adding to the evidence of predetermination.~~

7 ~~The actions of Federal Officials and Agencies reflect an intentional violation and~~
 8 ~~circumvention of 40 CFR section 1506.1(a) which precludes actions which would “Limit the~~
 9 ~~choice of reasonable alternatives” until an agency issues a record of decision as provided in~~
 10 ~~section 1505.2. Such actions clearly run contrary to a good faith effort to rigorously explore~~
 11 ~~and objectively evaluate all reasonable alternatives as required by 40 CFR section 1502.14.~~

12 ~~The actions of State Officials and departments clearly show that the project with three~~
 13 ~~intakes on the Sacramento Rivers and two tunnels connecting to Clifton Court has already been~~
 14 ~~determined to be the selected project regardless of the fact that environmental review has not~~
 15 ~~been completed.~~

16 ~~**NEPA POLICY AND PROCEDURAL REQUIREMENTS TO ASSURE**~~
 17 ~~**OBJECTIVITY IN THE PREPARATION OF THE EIS HAVE BEEN AND ARE**~~
 18 ~~**BEING CIRCUMVENTED.**~~

19 ~~The BDCP Draft EIR/EIS Purpose Statement is a confusing mix of State Water Project~~
 20 ~~(SWP), federal Central Valley Project (CVP), State Water Contractor and federal Water~~
 21 ~~Contractor purposes and needs.~~

22 ~~The SWP and State Water Contractors obviously want to construct the isolated~~
 23 ~~conveyance facility and operate the SWP to maximize the export of water from the Delta.~~

24 ~~The CVP (U.S. Bureau of Reclamation) although clearly in favor of construction of the~~
 25 ~~isolated conveyance has not forthrightly sought authority to join in construction, but obviously~~
 26 ~~plans to convey CVP water through such facility and seeks to protect the “ability of the SWP~~
 27 ~~and CVP to deliver up to full contract amounts, . . .”~~

28 ~~The SWP contractors and CVP contractors who are to receive the water exported from~~
 the Delta obviously are isolated conveyance and full delivery proponents.

The roles of regulating agencies and applicants, lead agencies and cooperating agencies has been mixed in a manner which circumvents the procedural mechanisms to assure NEPA required objectivity.

The SWP and SWP contractors seeking take permits from the U.S. Fish & Wildlife Services (USFWS) and National Marine Fisheries Service should be viewed as applicants and the Services as co-lead agencies. In such case, the EIS should have been prepared directly by the Services or by a contractor selected by them or where appropriate under 40 CFR section

1 ~~1501.6(b), a cooperating agency which has a similar interest. 40 CFR section 1506.5(e) in part~~
 2 ~~provides:~~

3 ~~“It is the intent of these regulations that the contractor be chosen~~
 4 ~~solely by the lead agency, or by the lead agency in cooperation~~
 5 ~~with cooperating agencies, or where appropriate by a cooperating~~
 6 ~~agency to avoid any conflict of interest.” (Emphasis added.)~~

7 ~~———— Allowing DWR, the USBR and their respective contractors to run the show is not~~
 8 ~~appropriate.~~

9 ~~———— Although 40 CFR section 1506.2 directs cooperation to the fullest extent possible to~~
 10 ~~reduce duplication between NEPA and state and local requirements, it does not suggest that~~
 11 ~~compliance with requirements to avoid conflict of interest and assure objectivity can be~~
 12 ~~avoided. Joint selection of common consultants in compliance with NEPA requirements and~~
 13 ~~subsequent sole direction of the common consultants by USFWS and NMFS as to NEPA~~
 14 ~~compliance would avoid duplication and could have helped avoid the conflict of interest~~
 15 ~~deterioration of objectivity. Such has not been the case. The USBR is not a regulatory or~~
 16 ~~permitting agency for BDCP in the same sense as the USFWS and NMFS. It has its own~~
 17 ~~responsibilities for compliance with federal ESA. It’s consultations with USFWS and NMFS~~
 18 ~~require that it comply with NEPA, but its role in protecting endangered species is conflicted~~
 19 ~~with its role in serving its water contractors and in coordinating the CVP operations with those~~
 20 ~~of the SWP. The USBR is not an adequate representative for the interests and NEPA~~
 21 ~~responsibilities of the USFWS and NMFS and should not be a co-lead and particularly the sole~~
 22 ~~lead.. Exhibit SDWA-167 is a copy of the First Amendment to the Memorandum of~~
 23 ~~Agreement Regarding Collaboration on the Planning, Preliminary Design and Environmental~~
 24 ~~Compliance for the Delta Habitat Conservation and Conveyance Program in Connection with~~
 25 ~~the Development of the Bay Delta Conservation Plan dated August 31, 2011. This copy~~
 26 ~~contains signatures by the DWR and USBR. Whether the State and Federal Contractors signed~~
 27 ~~is not known. This First Amendment can be contrasted to another First Amendment (which~~
 28 ~~may be the Second Amendment) dated December 15, 2011 and is Exhibit SDWA-158. The~~
 29 ~~USFWS and NMFS are not parties to either First Amendment. Both First Amendments~~
 30 ~~provide essentially the same language as to contracting, directing and communicating with the~~
 31 ~~consultants regarding the BDCP related environmental documents.~~

32 ~~———— H.E. of Exhibit SDWA-158 provides:~~

33 #

34 ~~———— “E. DWR is taking the lead role in preparing and, after~~
 35 ~~consultation with the Parties, shall direct the consultants regarding~~
 36 ~~the content of the BDCP, including those elements of the BDCP~~
 37 ~~intended to be incorporated in the EIS/EIR. DWR has also~~
 38 ~~contracted with the consultants preparing the EIS/EIR and shall~~
 39 ~~continue to administer the contract. DWR shall solicit, in a timely~~
 40 ~~manner, from the Department of Fish and Game (‘DFG’), the~~
 41 ~~Public Water Agencies, and the NEPA Co-lead Agencies,~~

1 ~~comments on the draft work products in support of the completion~~
 2 ~~of tasks, pursuant to the schedules in Exhibit 1 and 1A. As set~~
 3 ~~forth in Paragraph B above, Reclamation shall be responsible for~~
 4 ~~coordinating with the NEPA Co lead Agencies and coordinating~~
 5 ~~with DWR on the NEPA Co lead Agencies' comments that DWR~~
 6 ~~shall submit to the Consultants in accordance with the schedules in~~
 7 ~~Exhibit 1 and 1A. In the event agency comments are not received~~
 8 ~~consistent with the schedules in Exhibit 1 and 1A, DWR may~~
 9 ~~proceed with preparation of the BDCP and DWR, and Reclamation~~
 10 ~~may proceed with the preparation of the EIS/EIR. DWR shall~~
 11 ~~direct the Program Manager on preparation of the BDCP and~~
 12 ~~EIS/EIR as necessary to maintain the schedule or consider~~
 13 ~~necessary revisions as described in subsection II.C. The DWR~~
 14 ~~Director shall concurrently advise the Parties of the direction~~
 15 ~~provided to the Program Manager. Nothing in this section or~~
 16 ~~elsewhere in this First Amended MOA modifies the Federal~~
 17 ~~responsibilities for the content of the draft and final EIS and~~
 18 ~~preparation of the ROD.” (Emphasis added.)~~

19 ~~II.F. of Exhibit SDWA 158 and Exhibit SDWA 167 in pertinent part provides:~~

20 ~~“F. DWR has retained a consultant with extensive project~~
 21 ~~management experience to be the BDCP and DHCCP Program~~
 22 ~~Manager. The Program Manager shall report to and be directed by~~
 23 ~~the Director of DWR. The Director of DWR shall implement the~~
 24 ~~responsibilities of DWR as set forth in Subsection II.E. above. The~~
 25 ~~Director of DWR may fulfill this responsibility through the~~
 26 ~~Program Manager, who is delegated to carry out the day to day~~
 27 ~~management activities of the BDCP and to closely coordinate with~~
 28 ~~Reclamation regarding preparation of the EIS/EIR. . . .”~~
 (Emphasis added.)

~~II.Q. of Exhibit SDWA 158 (12 15 11) provides:~~

~~“Q. The Parties may retain consulting services as necessary to~~
 complete the BDCP and DHCCP Planning Phase, including the
 BDCP and EIS/EIR. No consultants will be retained for BDCP
 work unless they are approved by DWR. Before retaining
 consultants for EIS/EIR work DWR shall, in accordance with
 NEPA, its implementing regulations and the Lead Agency
 Agreement, consult with the NEPA Co-Lead Agencies. Consistent
 with Section II.F, above, the Director of DWR shall manage the
 retained consultants to carry out the BDCP and EIS/EIR.”
 (Emphasis added.)

~~II.Q. of Exhibit SDWA 167 (8 31 11) provides:~~

1 ~~“Q. The Parties may retain consulting services as~~
 2 ~~necessary to complete the BDCP-DHCCP Planning Phase,~~
 3 ~~including the BDCP and EIS/EIR. Consistent with Section II.F,~~
 4 ~~above, the Director of DWR shall manage the retained consultants~~
 5 ~~to carry out the BDCP and EIS/EIR.” (Emphasis added.)~~

6 ~~III.I. of Exhibit SDWA-158 and Exhibit SDWA-167 provides:~~

7 ~~“I. In the event DWR designates SFCWA as a~~
 8 ~~consultant contract administrator, DWR shall continue collecting~~
 9 ~~funds from the Public Water Agencies, including but not limited to~~
 10 ~~those member agencies identified in Exhibit 2, pursuant to the~~
 11 ~~BDCP-DHCCP Planning Phase funding agreements, and DWR~~
 12 ~~shall distribute those funds to SFCWA to fund the consultants that~~
 13 ~~are contracting directly with SFCWA for the completion of the~~
 14 ~~BDCP-DHCCP Planning Phase.” (Emphasis added.)~~

15 ~~The USFWS and NMFS, the agencies with the most direct responsibility for protection~~
 16 ~~of endangered species and the parties expected to grant the essential permits have been~~
 17 ~~relegated to a back seat role. They don't hire or direct the consultants; their submission of~~
 18 ~~comments must be through the USBR and thence through DWR to the consultants. If their~~
 19 ~~comments are untimely DWR and Reclamation make the call. USFWS and NMFS cannot~~
 20 ~~even hire consultants unless they are approved by DWR and DWR can even delegate~~
 21 ~~administration of the consultant contracts to the water contractors.~~

22 ~~The manipulation of the lead, co-lead and cooperating agencies and the delegation of~~
 23 ~~responsibilities by the State and federal agencies has left the most conflicted parties in charge~~
 24 ~~of the NEPA environmental process. Although the ultimate approval is left with the respective~~
 25 ~~agencies, the thousands of pages of text and studies is virtually impossible to adequately~~
 26 ~~review. The 132 page Executive Summary can be contrasted to the 15 page normal summary~~
 27 ~~referenced in 40 CFR section 1502.12 and the thousands of pages in the DEIS/EIR can be~~
 28 ~~contrasted to the 150 to 300 pages referenced in 40 CFR section 1502.7. The impartiality and~~
 29 ~~avoidance of conflicts whether financial or otherwise, of the consultants is critical to the~~
 30 ~~objective analysis required by NEPA. Those who contract with the consultants and most~~
 31 ~~important those who direct the consultants will have the greatest impact on objectivity. As~~
 32 ~~related to BDCP the DWR and in turn the USBR are essentially the agents of their respective~~
 33 ~~contractors and should be viewed as applicants for the purpose of NEPA compliance. 40 CFR~~
 34 ~~section 1506.5(e) specifies that a consulting firm involved in preparing an EIS must execute a~~
 35 ~~disclosure statement setting forth any “financial or other interest in the outcome of the project.”~~
 36 ~~Whether this was done and by whom is of interest however, even with such disclosure,~~
 37 ~~direction of the consultants will greatly dictate the bounds of objectivity.~~

38 ~~Objectivity to assure the need to “rigorously explore and objectively evaluate all~~
 39 ~~reasonable alternatives” is made more critical by the revolving door of employees between~~
 40 ~~federal and state agencies and export water contractors.~~

~~For NEPA purposes, USFWS and NMFS should now engage independent consultants which they direct to review, revise and supplement the already prepared BDCP documents and issue their own draft EIS for public comment and final action. The cost for such effort should be paid in advance by the contractors.~~

~~At this juncture the Independent Science Board or some other independent body should be authorized and funded to review, revise and supplement the already prepared BDCP documents and issue a new CEQA draft for public comment and final action. The cost for such effort should be paid in advance by the expert water contractors.~~

~~In the face of the obvious predetermination and corruption of required objectivity the SWRCB should not proceed with permitting of the three intakes and tunnels until an independently directed and corrected draft EIS and EIR is circulated for public review and comment and completed in good faith compliance with law.~~

THE FEDERAL CENTRAL VALLEY PROJECT (CVP) AND STATE WATER PROJECT (SWP) HAVE FAILED TO ACT IN GOOD FAITH TO MEET THE CONDITIONS OF THEIR PERMITS, TO DILGENTLY DEVELOP SURPLUS WATER TO MEET THEIR RESPECTIVE OBLIGATIONS AND TO HONOR SENIOR RIGHTS AND PUBLIC TRUST RESPONSIBILITY.

The State and Federal agencies with public trust responsibilities including the State Water Resources Control Board have failed to uphold such trust.

The failure of the CVP and DWP to meet the SWRCB permit conditions and other obligations in the watersheds of origin is clear. Whether or not the projects can if they so desired, operate the projects to meet such obligations is not clear. It is obvious that there has been no attempt to carryover sufficient stored water to meet such obligations through a reoccurrence of a six year or longer drought.

Whether in the context of initiation of a new water right or further evaluation of performance under existing permits the true and legally permissible firm yield of the projects needs to be established. Mitigation of the CVP and SWP adverse project impacts and the burden for satisfying the affirmative obligations of such projects should not be shifted onto others in the Bay-Delta watershed including those in and upstream of the Bay and Delta.

Limiting exports to water which is truly surplus to the present and future needs of the Delta and other areas of origin including fish and wildlife needs is the cornerstone of the promises and law. Urban development and permanent crops in areas dependent upon exports from the Delta cannot be sustained on an infirm supply. A forthright recognition of the inability to deliver the desired export quantities from the Bay-Delta watershed will help avoid the wasteful expenditure of billions of dollars on the tunnel related facilities which will cause great harm to the watersheds of origin and result in little or no benefit to the exporters. Reduced reliance on exports from the Delta and a focus on developing self-sufficiency in importing areas is the better course. Water conservation, water reclamation, desalination of brackish groundwater and where feasible seawater could help reduce the need for restrictions

1 on arid land development and limitations on the planting of permanent crops with infirm
2 supplies.

3 The promises and law restricting exports from the Delta to truly surplus water are
4 reflected in the representations and promises made at the inception of both the CVP and SWP.

5 A summary of the promises made on behalf of the United States to those in the areas of
6 origin is contained in the 84th Congress, 2D Session House Document No. 416, Part One
7 Authorizing Documents 1956 at Pages 797-799 as follows:

8 “My Dear Mr. Engle: In response to your request to Mr. Carr, we have assembled
9 excerpts from various statements by Bureau and Department officials relating to
10 the subject of diversion of water from the Sacramento Valley to the San Joaquin
11 Valley through the operation of the Central Valley Project.

12 A factual review of available water supplies over a period of more than 40 years
13 of record and the estimates of future water requirements made by State and
14 Federal agencies makes it clear that there is no reason for concern about the
15 problem at this time.

16 For your convenience, I have summarized policy statements that have been made
17 by Bureau of Reclamation and Department of the Interior officials. These
18 excerpts are in the following paragraphs:

19 On February 20, 1942, in announcing the capacity for the Delta-Mendota Canal,
20 Commissioner John C. Page said, as a part of his Washington D.C., press release:

21 “The capacity of 4,600 cubic feet per second was approved, with the
22 understanding that the quantity in excess of basic requirements mainly for
23 replacement at Mendota Pool, will not be used to serve new lands in the San
24 Joaquin Valley if the water is necessary for development in the Sacramento
25 Valley below Shasta Dam and in the counties of origin of such waters.”

26 On July 18, 1944, Regional Director Charles E. Carey wrote a letter to Mr. Harry
27 Barnes, chairman of a committee of the Irrigation Districts Association of
28 California. In that letter, speaking on the Bureau’s recognition and respect for
State laws, he said:

“They [Bureau officials] are proud of the historic fact that the reclamation
program includes as one of its basic tenets that the irrigation development in the
West by the Federal Government under the Federal reclamation laws is carried
forward in conformity with State water laws.”

On February 17, 1945, a more direct answer was made to the question of
diversion of water in a letter by Acting Regional Director R. C. Calland, of the
Bureau, to the Joint Committee on Rivers and Flood Control of the California

1 State Legislature. The committee had asked the question, “What is your policy in
2 connection with the amount of water that can be diverted from one watershed to
3 another in proposed diversions?” In stating the Bureau’s policy, Mr. Calland
4 quoted section 11460 of the State water code, which is sometimes referred to as
5 the county of origin act, and then he said:

6 “As viewed by the Bureau, it is the intent of the statute that no water shall be
7 diverted from any watershed which is or will be needed for beneficial uses within
8 that watershed. The Bureau of Reclamation, in its studies for water resources
9 development in the Central Valley, consistently has given full recognition to the
10 policy expressed in this statute by the legislature and the people. The Bureau has
11 attempted to estimate in these studies, and will continue to do so in future studies,
12 what the present and future needs of each watershed will be. The Bureau will not
13 divert from any watershed any water which is needed to satisfy the existing or
14 potential needs within that watershed. For example, no water will be diverted
15 which will be needed for the full development of all of the irrigable lands within
16 the watershed, nor would there be water needed for municipal and industrial
17 purposes or future maintenance of fish and wildlife resources.”

18 On February 12, 1948, Acting Commissioner Wesley R. Nelson sent a
19 letter to Representative Clarence F. Lea, in which he said:

20 “You asked whether section 10505 of the California Water Code, also
21 sometimes referred to as the county of origin law, would be applicable to the
22 Department of the Interior, Bureau of Reclamation. The answer to this question
23 is: No, except insofar as the Bureau of Reclamation has taken or may take
24 assignments of applications which have been filed for the appropriation of water
25 under the California Statutes of 1927, chapter 286, in which assignments
26 reservations have been made in favor of the county of origin.

27 The policy of the Department of the Interior, Bureau of Reclamation, is
28 evidenced in its proposed report on a Comprehensive Plan for Water Resources
Development–Central Valley Basin, Calif., wherein the Department of the Interior
takes the position that “In addition to respecting all existing water rights, the
Bureau has complied with California’s ‘county of origin’ legislation, which
requires that water shall be reserved for the presently unirrigated lands of the
areas in which the water originates, to the end that only surplus water will be
exported elsewhere.”

On March 1, 1948, Regional Director Richard L. Boke wrote to Mr. A. L.
Burkholder, secretary of the Live Oak Subordinate Grange No. 494, Live Oak,
Calif., on the same subject, and said:

“I can agree fully with the statement in your letter that it would be grossly unjust
to ‘take water from the watersheds of one region to supply another region until all
present and all possible future needs of the first region have been fully determined

1 and completely and adequately provided for.’ That is established Bureau of
2 Reclamation policy and, I believe, it is consistent with the water laws of the State
3 of California under which we must operate.”

4 On May 17, 1948, Assistant Secretary of the Interior William E. Warne wrote a
5 letter to Representative Lea on the same subject, in which he said:

6 “The excess water made available by Shasta Reservoir would go first to such
7 Sacramento Valley lands as now have no rights to water.”

8 Assistant Secretary Warne goes on to say, in the same letter:

9 “As you know, the Sacramento Valley water rights are protected by: (1)
10 Reclamation law which recognizes State water law and rights thereunder; (2) the
11 State’s counties of origin act, which is recognized by the Bureau in principle; and
12 (3) the fact that Bureau filings on water are subject to State approval. I can assure
13 you that the Bureau will determine the amounts of water required in the
14 Sacramento Valley drainage basin to the best of its ability so that only surplus
15 waters would be exported to the San Joaquin. We are proceeding toward a
16 determination and settlement of Sacramento Valley waters which will fully
17 protect the rights of present users; we are determining the water needs of the
18 Sacramento Valley; and it will be the Bureau’s policy to export from that valley
19 only such waters as are in excess of its needs.”

20 On October 12, 1948, Secretary of the Interior Krug substantiated former
21 statements of policy in a speech given at Oroville, Calif. Secretary Krug said,
22 with respect to diversion of water:

23 “Let me state, clearly and finally, the Interior Department is fully and completely
24 committed to the policy that no water which is needed in the Sacramento Valley
25 will be sent out of it.”

26 He added:

27 “There is no intent on the part of the Bureau of Reclamation ever to divert from
28 the Sacramento Valley a single acre-foot of water which might be used in the
valley now or later.”

The California Water Resources Development Bond Act provides in Water Code
Section 12931 that the Sacramento-San Joaquin Delta shall be deemed to be within the
watershed of the Sacramento River.

Exhibit SDWA-168 is a copy of the 1960 ballot argument in favor of the California
Water Resources Development Bond Act which spawned the State Water Project (SWP). Of
particular note are the following representations:

1 “No area will be deprived of water to meet the needs of another
2 nor will any area be asked to pay for water delivered to another.”

3 “Under this Act the water rights of Northern California will remain
4 securely protected.”

5 “A much needed drainage system and water supply will be
6 provided in the San Joaquin Valley.”

7 In ES.1.2.2 Exhibit SWRCB-3 of the RDEIR/SDEIS it is stated that State policy
8 regarding the Delta is summarized in the Sacramento-San Joaquin Delta Reform Act of 2009.
9 Reference is made only to Water Code Sections 85001, subd. (c) and 85002 while failing to
10 recognize sections 85031(a), 85054, 85021 and others.

11 Water Code section 85031(a) provides:

12 “(a) This division does not diminish, impair, or otherwise affect
13 in any manner whatsoever any area of origin, watershed of origin,
14 county of origin, or any other water rights protections, including,
15 but not limited to, rights to water appropriated prior to December
16 19, 1914, provided under the law. This division does not limit or
17 otherwise affect the application of Article 1.7 (commencing with
18 Section 1215) of Chapter 1 of Part 2 of Division 2, Sections 10505,
19 10505.5, 11128, 11460, 11461, 11462, and 11463, and Sections
20 12200 to 12220, inclusive.” (Emphasis added.)

21 Water Code Sections 11460 et seq. and 12200 et seq. are particularly specific in
22 defining the limitation on the export of water from the Delta by the SWP and CVP. Water
23 Code Section 11460 et seq. were added by Statutes 1943, c. 370, p. 1896 around the time of
24 commencement of the CVP. Water Code Section 12200 et seq. was added by Statutes 1959, c.
25 1766, p. 1766 around the time of commencement of the State Water Project.

26 The limitation of the projects to the export of only surplus water and the
27 obligation of the projects to provide salinity control and assure an adequate water supply
28 sufficient to maintain and expand agriculture, industry, urban, and recreational development in
the Delta is clear.

Water Code "12200 through 12205 are particularly specific as to the requirements to
provide salinity control for the Delta and provide an adequate water supply in the Delta
sufficient to maintain and expand agriculture, industry, urban and recreational development.

For ease of reference, the following Water Code sections are quoted with emphasis
added:

'12200. Legislative findings and declaration

1 The Legislature hereby finds that the water problems of the Sacramento-San Joaquin
 2 Delta are unique within the State; the Sacramento and San Joaquin Rivers join at the
 3 Sacramento-San Joaquin Delta to discharge their fresh water flows into Suisun, San Pablo and
 4 San Francisco bays and thence into the Pacific Ocean; the merging of fresh water with saline
 5 bay waters and drainage waters and the withdrawal of fresh water for beneficial uses creates an
 6 acute problem of salinity intrusion into the vast network of channels and sloughs of the Delta;
 7 the State Water Resources Development system has as one of its objectives the transfer of
waters from water-surplus areas in the Sacramento Valley and the north coastal area to water-
deficient areas to the south and west of the Sacramento-San Joaquin Delta via the Delta; water
surplus to the needs of the areas in which it originates is gathered in the Delta and thereby
provides a common source of fresh water supply for water-deficient areas. It is, therefore,
 8 hereby declared that a general law cannot be made applicable to said Delta and that the
 9 enactment of this law is necessary for the protection, conservation, development, control and
 use of the waters in the Delta for the public good. (Added by Stats. 1959, c. 1766, p. 4247, '1.)

10 **'12201. Necessity of maintenance of water supply**

11 The Legislature finds that the maintenance of an adequate water supply in the
 12 Delta sufficient to maintain and expand agriculture, industry, urban, and
 13 recreational development in the Delta area as set forth in Section 12220, Chapter
 14 2, of this part, and to provide a common source of fresh water for export to areas
 15 of water deficiency is necessary to the peace, health, safety and welfare of the
 16 people of the State, except that delivery of such water shall be subject to the
 provisions of Section 10505 and Sections 11460 to 11463, inclusive, of this code.
 (Added by Stats. 1959, c. 1766, p 4247, '1.)

17 **'12202. Salinity control and adequate water supply; substitute water supply;** 18 **delivery**

19 Among the functions to be provided by the State Water Resources Development
 20 System, in coordination with the activities of the United States in providing
 21 salinity control for the Delta through operation of the Federal Central Valley
 22 Project, shall be the provision of salinity control and an adequate water supply for
 23 the users of water in the Sacramento-San Joaquin Delta. If it is determined to be
 24 in the public interest to provide a substitute water supply to the users in said Delta
 25 in lieu of that which would be provided as a result of salinity control no added
 financial burden shall be placed upon said Delta water users solely by virtue of
 such substitution. Delivery of said substitute water supply shall be subject to the
 provisions of Section 10505 and Sections 11460 to 11463, inclusive, of this code.
 (Added by Stats. 1959, c. 1766, p 4247, '1.)

26 **'12203. Diversion of waters from channels of delta**

27 It is hereby declared to be the policy of the State that no person, corporation or
 28 public or private agency or the State or the United States should divert water from

1 the channels of the Sacramento-San Joaquin Delta to which the users within said
 2 Delta are entitled. (Added by Stats. 1959, c. 1766, p 4249, '1.)

3 **'12204. Exportation of water from delta**

4 In determining the availability of water for export from the Sacramento-San
 5 Joaquin Delta no water shall be exported which is necessary to meet the
 6 requirements of Sections 12202 and 12203 of this chapter. (Added by Stats.
 1959, c. 1766, p 4249, '1.)

7 **'12205. Storage of water; integration of operation and management of release**
 8 **of water**

9 It is the policy of the State that the operation and management of releases from
 10 storage into the Sacramento-San Joaquin Delta of water for use outside the area in
 11 which such water originates shall be integrated to the maximum extent possible in
 12 order to permit the fulfillment of the objectives of this part. (Added by Stats.
 1959, c. 1766, p 4249, '1.)@

13 '11460 provides:

14 **11460. Prior right to watershed water**

15 In the construction and operation by the department of any
 16 project under the provisions of this part a watershed or area
 17 wherein water originates, or an area immediately adjacent thereto
 18 which can conveniently be supplied with water therefrom, shall not
 19 be deprived by the department directly or indirectly of the prior
 20 right to all of the water reasonably required to adequately supply
 21 the beneficial needs of the watershed, area, or any of the
 22 inhabitants or property owners therein. (Added by Stats. 1943, c.
 370, p. 1896. Amended by Stats. 1957, c. 1932, p. 3410, '296.)@

23 The December 1960 DWR Bulletin 76 (Exhibit SDWA-169) which includes a
 24 contemporaneous interpretation by DWR of Water code Section 12200 through 12205 provides
 25 at page 12:

26 “In 1959 the State Legislature directed that water shall not be diverted from the Delta
 27 for use elsewhere unless adequate supplies for the Delta are first provided. (Emphasis added.)

28 Similarly the DWR confirmed its interpretation of law in the contract between the State
 of California Department of Water Resources and the North Delta Water Agency For the
 Assurance of a Dependable Water Supply of Suitable Quality dated January 28, 1981, which
 provides:

1 “(d) The construction and operation of the FCVP and SWP at
2 times have changed and will further change the regimen of rivers
3 tributary to the Sacramento-San Joaquin Delta (Delta) and the
4 regimen of the Delta channels from unregulated flow to regulated
5 flow. This regulation at times improves the quality of water in the
6 Delta and at times diminishes the quality from that which would
7 exist in the absence of the FCVP and SWP. The regulation at
8 times also alters the elevation of water in some Delta channels.”

9 “(f) The general welfare, as well as the rights and requirements of
10 the water users in the Delta, require that there be maintained in the
11 Delta an adequate supply of good quality water for agricultural,
12 municipal and industrial uses.”

13 “(g) The law of the State of California requires protection of the
14 areas within which water originates and the watersheds in which
15 water is developed. The Delta is such an area and within such a
16 watershed. Part 4.5 of Division 6 of the California Water Code
17 affords a first priority to provision of salinity control and
18 maintenance of an adequate water supply in the Delta for
19 reasonable and beneficial uses of water and relegates to lesser
20 priority all exports of water from the Delta to other areas for any
21 purpose.” (Emphasis added.) (See Exhibit DWR-306.)

22 In United States vs. State Water Resources Control Board 182 Ca.App.3d82 (1986) at
23 page 139 the court concluded:

24 “In 1959, when the DWP was authorized, the Legislature enacted
25 the Delta Protection Act. (§§ 12200-12220.) The Legislature
26 recognized the unique water problems in the Delta, particularly
27 ‘salinity intrusion,’ which mandates the need for such special
28 legislation ‘for the protection, conservation, development, control
and use of the waters in the Delta for the public good.’ (§ 12200.)
The act prohibits project exports from the Delta of water necessary
to provide water to which Delta users are ‘entitled’ and water
which is needed for salinity control and an adequate supply for
Delta users. (§§ 12202, 12203, 12204.)” (Emphasis added)

In SWRCB D-1485 Exhibit SWRCB-23 at page 9 the SWRCB ruled:

“The Delta Protection Act accords first priority to satisfaction of
vested rights and public interest needs for water in the Delta and
relegates to lesser priority all exports of water from the Delta to
other areas for any purpose.”

1 As related to the Peripheral Canal or Tunnels or any other isolated conveyance facility,
2 the requirements of WC 12205 are particularly relevant.

3 “It is the policy of the State that the operation and management of
4 releases from storage into the Sacramento- Joaquin Delta of water
5 for use outside the area in which such water originates shall be
6 integrated to the maximum extent possible to permit fulfillment of
7 the objectives of this part.”

8 The objectives include salinity control and an adequate water supply. Conveyance
9 facilities which transport stored water to the export pumps with no outlets or releases to
10 provide salinity control and an adequate water supply in the Delta would not comply.

11 **The responsibility for mitigation for the CVP and SWP adverse impacts and the
12 affirmative obligations to legal users of water and to fish and wildlife should not be
13 shifted to others. The proposed changes illegally shift such burden and violate the
14 obligations so as to harm legal users of water within and upstream of the Bay-Delta.**

15 The export projects must fully mitigate their respective impacts and meet the
16 affirmative obligations to the Delta and other areas of origin including those related to flow for
17 fish. Failure to so do results in a shift of the cost of the project to someone else. The State
18 Water Resources Development Bond Act was intended to preclude such a shift in costs or
19 burdens.

20 In Goodman v. Riverside (1993) 140 Cal.App.3d 900 at 906 the court confirmed the
21 requirement that the costs of the entire project be paid by the contractors.

22 In footnotes 3 and 4 the court included the following:

23 ³“Alan Cranston, then State Controller, notes in a press release:
24 “As additional security for the bonds, and to prevent a drain on
25 the General Fund in case of deficiency, the local contracting
26 agencies will have ad valorem taxing power over and above the
27 cost of water which the user will pay. [¶] Local agencies will
28 therefore be able to meet their commitments to the State even if
revenues from local sales of water are not sufficient for this
purpose. [¶] Through this procedure, the beneficiaries of the Water
Plan become the financial keystone and support rather than the
General Fund and the general taxpayer.””

“Governor Pat Brown’s press comments at the time are also
informative:”

1 “Governor, what is your answer to people who say, ‘I don’t want
2 to pay for somebody else’s water.’ Like San Franciscans. “I have
3 already paid for one water project. Why should I be compelled to
buy another?”

4 “Governor Brown: Well, they won’t. The plan itself is completely
5 self-supporting. The law provides that the contracts have to
6 provide for the repayment of the cost of the entire Project, That’s
the real answer to it.” (Italics added.)

7 ⁴The League of Women Voters’ analysis observed: “The state will
8 contract with public agencies having the assessment power so they
9 can meet the required payment to the state by the use of taxes as
10 well as water rates if they so desire. In this way no area will be
subsidizing water for another region.”

11 Water Code Section 11912 requires that the costs necessary for the preservation of fish
12 and wildlife be charged to the contractors. The term “preservation” appears to be broader than
13 mitigation and appears to create an affirmative obligation beyond mitigation.

14 Title 34 of Public Law 102-575, SDWA-6 referred to as the Central Valley Project
15 Improvement Act in Section 3406(b)(1) authorizes and directs the Secretary of Interior to enact
16 and implement a program which makes all reasonable efforts to ensure by the year 2002
17 natural production of anadromous fish (including salmon, steelhead, striped bass, sturgeon and
18 American shad) will be sustainable on a long term basis at levels not less than twice the
average levels attained during the period of 1967-1991. This burden is an affirmative
obligation of the CVP and should not be shifted onto others.

19 ~~The Delta Reform Act of 2009 includes provisions intended to provide additional
protection for the Delta. Such provisions include Water Code §85054 which provides:~~

20 _____
21 ~~“§85054. Coequal goals~~

22 ~~‘Coequal goals’ means the two goals of providing a more reliable
water supply for California and protecting restoring, and enhancing
23 the Delta ecosystem. The coequal goals shall be achieved in a
manner that protects and enhances the unique cultural, recreational,
24 natural resource, and agricultural values of the Delta as an
evolving place.”~~

25 ~~Water Code §85021 which provides:~~

1 ~~“§85021. Reduction of reliance on Delta for future water supply~~
2 ~~needs~~

3 ~~The policy of the State of California is to reduce reliance on the~~
4 ~~Delta in meeting California’s future water supply needs through a~~
5 ~~statewide strategy of investing in improved regional supplies,~~
6 ~~conservation, and water use efficiency. Each region that depends~~
7 ~~on water from the Delta watershed shall improve its regional self-~~
8 ~~reliance for water through investment in water use efficiency,~~
9 ~~water recycling, advanced water technologies, local and regional~~
10 ~~water supply projects, and improved regional coordination of local~~
11 ~~and regional water supply efforts.”~~

9 The Delta and other areas of origin both upstream and downstream are part of
10 California and also need a more reliable water supply. The modified purposes of the WaterFix
11 are clearly directed only at the ability of the SWP and CVP to export water from the Delta.
12 Restoration and protection of Delta water quality and flows including flushing flows are part of
13 a more reliable water supply for California. Non-degradation of water quality and the statutory
14 obligations to provide enhancement of water quality and an adequate supply for the Delta are
15 absent from the purposes of the WaterFix and the petition for change.

14 The embedded isolated conveyance will clearly render water supply less reliable in all
15 areas of the Delta downstream of the Sacramento River intakes and those areas along the
16 current routes of Sacramento River flow to the export pumps. The common pool for the
17 interior Delta will be eliminated along with the common interest in protecting the water
18 quality. The isolated conveyance has no outlets and requirements to protect water quality in
19 dry periods are always circumvented. For areas throughout the watershed, including those
20 along the tributaries upstream of the Delta, curtailment of local water use, and water transfers
21 to increase utilization of the highly expensive tunnels combined with the need for fish flows
22 and high water consumption habitat to mitigate for the construction and operation of the
23 tunnels will greatly add to unreliability.

21 The Water Fix ignores the need to reduce reliance on exports of water from the Delta.
22 The hydrology of the Delta watershed is inadequate to support even the past level of exports.
23 Development within the watersheds of origin and the need to recapture water from SWP and
24 CVP exports will increase. There is evidence that more water will be needed to mitigate for
25 the SWP and CVP damage to fish including meeting the CVPIA anadromous fish restoration
26 requirements of 2 times the average natural production for the years 1967 through 1991.
27 Climate change is also expected to adversely affect water supply. The increasing threat of
28 terrorism, the continuing threat of natural calamities, including earthquakes and the growing
need for electricity all gravitate towards less reliance on exports from the Delta and instead
concentration on developing local self- sufficiency. The deficit due to the failure to develop
North Coast watersheds will not be overcome by efforts at self-sufficiency, however, increased
efforts in urban communities can increase the amount of water available for agriculture and the
environment.

1 The hydrology predating the construction of the CVP and SWP reflected that no surplus
2 water would be available for export from the Sacramento-San Joaquin Watershed during a
3 reoccurrence of the 1929-1934 drought.

4 Exhibit SDWA-170 is a copy of the hydrographs from page 116 of the Weber
5 Foundation Studies titled "An Approach To A California Public Works Plan" submitted to the
6 California Legislature on January 28, 1960. The highlights and margin notes are mine.

7 The 1928/29-1933/34 six year drought period reflected on Exhibit SDWA-170 shows
8 the average yearly runoff is 17.631 million acre feet with local requirements of 25.690 million
9 acre feet. There is a shortage during the drought period within the Delta Watershed of 8.049
10 million acre feet per year without any exports. It is questionable whether the groundwater
11 basins can be successfully mined to meet the shortage within the watershed let alone the export
12 demands. A comparable review of the hydrograph for the North Coast area reflects that
13 surplus water could have been developed without infringing on local requirements.

14 The limited hydrology was clearly recognized in the planning for the SWP which was
15 to develop projects on the rivers in the North Coast watersheds sufficient to import to the Delta
16 about 5,000,000 acre feet of water seasonally for transfer to areas of deficiency. (See Exhibit
17 SDWA-169 December 1960 Bulletin 76 page 13). Such areas of deficiency were expected to
18 be both north and south of the Delta pumps. The projects in the North Coast watersheds were
19 never constructed and the projects are woefully short of water.

20 The original planning for the SWP and CVP appears to have underestimated the needs
21 to protect fish both as to flow requirements and carryover storage required for temperature
22 control. Without such 5 million acre feet of water per year there is no truly surplus water for
23 export except in wet years.

24 In 2009 after only two (2) dry years, the SWP and CVP violated the February outflow
25 requirements claiming that meeting the outflow requirements would reduce storage below the
26 point necessary to meet cold water requirements for salmon later in the year. Although the
27 project operators lied and the real reason for the violation was the ongoing pumping of the
28 unregulated flow to help fill San Luis Reservoir, the incident clearly shows the inability of the
projects to provide surplus water for export in the 3rd, 4th, 5th and 6th years of drought.

In May of 2013 the SWP and CVP again claimed a need to preserve cold water in
storage for fish. They requested and were allowed by the SWRCB to reduce outflow by
changing the year classification so as to exceed the western and interior Delta agricultural
water quality objectives to save such cold water in storage. They did not suggest and did not
reduce export pumping which would have had the same effect as reducing outflow.

In 2014 the 2nd or 3rd year of drought, the SWRCB issued curtailment notices to post
1914 water right holders in the areas of origin and reduced exports due to the lack of water.

The events surrounding the 2009 and 2013 Water Quality Standard Violations reveal
disturbing collaboration among the USBR, DWR, state and federal fish agencies and the
SWRCB to facilitate exports rather than meet legal obligations in the Bay Delta watershed.

1
2 In 2009 the Fishery Agency Representatives did not object to the planned violation of
3 the standards and even though the water needed to meet the standards was being exported the
4 SWRCB did not even admonish the state and federal agencies to seek relief in advance of
5 violation. Although the need for retention of water in storage to meet cold water requirements
6 for fish was the alleged motivation for the violation of the standards exports continued at a an
7 increasing rate including water that could have been held in storage for cold water
8 requirements. See Exhibit SDWA- 172.

9
10 In 2013 again the reason for the violation was to retain water in storage to meet cold
11 water requirements for fish. Following the violation the USBR and DWR requested that the
12 standards for protection of agriculture in the central and western Delta be relaxed by allowing
13 operation to critical year standards rather than dry year standards. The California Department
14 of Fish and Wildlife Service, the United States Fish and Wildlife Service, and NOAA's
15 National Marine Fishery Service supported the request. Although the SWRCB staff and all
16 such agencies conferred on the matter, there was no suggestion that exports be reduced in lieu
17 of water quality standards relaxation. Most disappointing was the SWRCB Executive
18 Directors agreement not to recommend taking any enforcement action for the future operation
19 to the relaxed standard thereby effectuating a change in standards without even a public
20 hearing. See Exhibit SDWA-171.

21
22 In both the 2009 and 2013 cases exports continued at a relatively high rate even though
23 the need for retention of water in storage for meeting cold water fish requirements was clearly
24 recognized. See Exhibit SDWA-172.

25
26 It is clear that the CVP and SWP have not operated the projects in a manner so as to
27 meet water quality standards during a reoccurrence of six years or even two years of drought.

28
Six year droughts can be expected and even longer droughts are possible. The historic
occurrence of multi-year droughts was reported in a DWR Report, California's Most
Significant Droughts: Comparing Historical and Recent Conditions (February 2015). Exhibit
SDWA-173 is Table 2.1 from such report.

The State Water Project Final Delivery Capability Report 2015 shows for Table A, a
long-term average (1921-2003) as 2,550,000 acre feet per year; a single dry year (1977) as
454,000 acre feet and a 6-year drought (1987-1992) as 1,182,000 acre feet per year. These
figures can be contrasted to the Maximum Possible SWP Table A Delivery of 4,132,000 acre
feet per year. See Exhibit SDWA-174 excerpts from SWP Final Delivery Capability Report
2015.

The failure of the SWP and CVP to carry out the plan for development of water
projects to yield sufficient surplus water including the 5 million acre feet from the North Coast
to meet the needs and obligations within the Delta and other areas of origin and the
expectations of the export contractors is at the root of the crisis in the Delta.

1 Under CEQA the Purpose and Need cannot be artificially narrowed to limit objective
 2 consideration of reasonable alternatives. The lead agencies have done just that. They rely on
 3 the proposition that “a reasonable definition of underlying purpose and need” could be used to
 4 avoid the objective consideration and evaluation of alternatives that cannot achieve that basic
 5 goal. Their definition of purpose and need is not reasonable or compliant with law.

6 ~~The requirements for NEPA are different. The DEIS/EIR must meet the~~
 7 ~~requirements of 40 CFR section 1502.14 which provides:~~

8 ~~“§1502.14 Alternatives including the proposed action.~~

9 ~~This Section is the heart of the environmental impact statement. Based on~~
 10 ~~the information and analysis presented in the sections on the Affected~~
 11 ~~Environment (§1502.15) and the Environmental Consequences~~
 12 ~~(§1502.16), it should present the environmental impacts of the proposal~~
 13 ~~and the alternatives in comparative form, thus sharply defining the issues~~
 14 ~~and providing a clear basis for choice among options by the decision~~
 15 ~~maker and the public. In this section agencies shall:~~

- 16 ~~(a) Rigorously explore and objectively evaluate all reasonable~~
 17 ~~alternatives, and for alternatives which were eliminated from~~
 18 ~~detailed study, briefly discuss the reasons for their having been~~
 19 ~~eliminated.~~
 20 ~~(b) Devote substantial treatment to each alternative considered in detail~~
 21 ~~including the proposed action so that reviewers may evaluate their~~
 22 ~~comparative merits.~~
 23 ~~(c) Include reasonable alternatives not within the jurisdiction of the lead~~
 24 ~~agency.~~
 25 ~~(d) Include the alternative of no action.~~
 26 ~~(e) Identify the agency’s preferred alternative or alternatives, if one or more~~
 27 ~~exists, in the draft statement and identify such alternative in the final~~
 28 ~~statement unless another law prohibits the expression of such a~~
 preference.
 (f) ~~Include appropriate mitigation measures not already included in the~~
 proposed action or alternatives.” (Emphasis added.)

23 An alternative which requires that the SWP and CVP be operated in accordance with
 24 current law is a reasonable alternative which must be rigorously and objectively evaluated.
 25 The Water Fix clearly ignores the law establishing the priorities for meeting needs within the
 26 Delta and other areas of origin including the needs of fish and wildlife. The current change
 27 proceeding precludes the rigorous and objective consideration of alternatives.

28 //

27 The purpose statement has changed a number of times in apparent response to the
 28 demands of applicant export water contractors. These contractors, who as permittees, are
 required to fund the objective and impartial review of the environmental impacts by the public

1 regulatory agencies should not have been allowed to leverage changes in purpose so as to
2 constrain the analysis towards their favored alternative.

3 Of particular note is the addition and continued inclusion of the following:

4 “Restore and protect the ability of the SWP and CVP to deliver up to full contract
5 amounts, when hydrologic conditions result in the availability of sufficient water,
6 consistent with the requirements of State and federal law and the terms and conditions
7 of water delivery contracts and other existing applicable agreements.” (Emphasis
8 added.)

9 The ability of the SWP and CVP to deliver “full contract amounts” never existed and
10 thus could not be restored or protected. The words “up to” conceivably should cover a range
11 from zero deliveries to a high of what can be supported with full compliance with State and
12 federal law and hydrologic conditions.

13 ~~Although obviously not intended by those controlling the preparation of the EIS/EIR, a~~
14 ~~range of reasonable alternatives must be considered including substantially reduced and at~~
15 ~~times no exports from the Delta. The upper range is of course limited by law and hydrology.~~

16 Export of water from the Delta is counter-productive to improving the ecosystem and
17 the Water Fix has failed to present the environmental impacts and alternatives in a manner
18 providing a clear basis for choice among options by the decision maker and the public as
19 required by 40 CFR section 1502.14. The proposition that removal of natural flows into and
20 through the Bay-Delta Estuary will improve the ecosystem is unique, bold and unsupported.

21 Reliability of water supply for exports from the Delta must be junior to the needs and
22 obligations requiring water in the Delta and other areas of origin including fish and wildlife
23 needs. The modeling and analysis should provide a clear confirmation of the types and
24 numbers of years when no water will be available for export and provide estimates of the
25 amounts that might be available in other years. Care should be taken to model carryover
26 storage requirements with due consideration of meeting temperature, flow and statutory
27 requirements to determine the firm yield available for export.

28 Reliability of water supply for Northern California requires that water to meet the needs
of and obligations to restore and even enhance fish not be exported.

Both State and Federal laws seek to prevent degradation of water quality. Isolated
conveyance will remove the higher quality Sacramento River water from the Delta pool
thereby reducing the dilution of the poorer quality water returning to the Delta by way of the
San Joaquin River from SWP and CVP operations which deliver water to the west side of the
San Joaquin Valley. The delivery of such water to the San Luis Unit was prohibited by the San
Luis Act of 1960 unless there was a Valley Drain with an outlet to the ocean. (See Exhibit
SDWA-175). The prohibition was circumvented. Even the promise that “A much needed
drainage system and water supply will be provided in the San Joaquin Valley” included in
ballot argument in favor of the California Water Resources Development Act (SWP) was not

1 kept. (See Exhibit SDWA-168). The Purposes and this proceeding unreasonably seek to
 2 maintain and increase exports from the Delta to the west side of the San Joaquin Valley which
 3 degrade Delta water quality. The commitment to isolated conveyance aggravates such
 degradation.

4 The provision of salinity control and an adequate supply for the Delta was deemed to be
 5 of utmost importance and is a critical feature of a reliable supply for the Delta.

6 Salinity control for the Sacramento-San Joaquin Delta is a primary purpose for Shasta
 7 Dam.

8 Water Code Section 11207 provides:

9 “§11207. Primary purposes

10 Shasta Dam shall be constructed and used primarily for the following purposes:

- 11 (a) Improvement of navigation on the Sacramento River to Red Bluff.
- 12 (b) Increasing flood protection in the Sacramento River.
- 13 (c) Salinity control in the Sacramento-San Joaquin Delta.
- 14 (d) Storage and stabilization of the water supply of the Sacramento River for
 15 irrigation and domestic use. (Added by Stats. 1943, c 370, p. 1896) (Emphasis
 16 added.)

17 The Delta Protection Act of 1959 in WC 12200 specifically provides: “It is, therefore,
 18 hereby declared that a general law cannot be made applicable to said Delta and that the
 enactment of this law is necessary for the protection, conservation, development, control and
 use of the waters in the Delta for the public good.”

19 The degradation of water quality in the Delta adversely impacts agricultural, industrial,
 20 urban ~~and recreational (including fish and wildlife)~~ uses in the Delta and surrounding areas as
 well as areas served with exports from the Delta.

21 Except as provided by agreement, salinity control and the adequacy of the quality of the
 22 water supply for the Delta is determined by water quality objectives set by the SWRCB. Such
 23 objectives provide the minimum level deemed necessary to protect beneficial uses. Although
 24 the objectives are set for certain uses for certain periods, it is the composite of all objectives
 25 which the SWRCB determined would provide the protection for all beneficial uses. Such
 objectives have at times been violated and it is critical to the rigorous and objective analysis of
 alternatives to incorporate with and without compliance conditions.

26 Federal law is specific as to the obligations for the CVP.

27 PL99-546 (HR3113) specifically provides:

1 “(b)(1) Unless the Secretary of the Interior determines that
2 operation of the Central Valley project in conformity with State
3 water quality standards for the San Francisco Bay/Sacramento-San
4 Joaquin Delta and Estuary is not consistent with the congressional
5 directives applicable to the project, the Secretary is authorized and
6 directed to operate the project, in conjunction with the State of
7 California water project, in conformity with such standards.
8 Should the Secretary of the Interior so determine, then the
9 Secretary shall promptly request the Attorney General to bring an
10 action in the court of proper jurisdiction for the purposes of
11 determining the applicability of such standards to the project.

12 (2) The Secretary is further directed to operate the Central Valley
13 project, in conjunction with the State water project, so that water
14 supplied at the intake of the Contra Costa Canal is of a quality
15 equal to the water quality standards contained in the Water Right
16 Decision 1485 of the State of California Water Resources Control
17 Board, dated August 16, 1978, except under drought emergency
18 water conditions pursuant to a declaration by the Governor of
19 California. Nothing in the previous sentence shall authorize or
20 require the relocation of the Contra Costa Canal intake.” (See
21 Exhibit SDWA-176.)

22 Section (b)(1) does not allow for the Bureau of Reclamation to operate the CVP
23 without conforming to the State water quality standards for the San Francisco Bay/Sacramento-
24 San Joaquin Delta and Estuary even if the SWRCB is willing to look the other way. A
25 determination by a court of law is required. (See Exhibit 19.)

26 There are specific processes and procedures for changes to Water Quality Control Plans
27 including review by the United States EPA, which are not being considered.

28 Section (b)(1) is thus applicable and requires USBR and USF&WS compliance unless
the Secretary of Interior makes a determination that compliance is inconsistent with
congressional directives applicable to the project and then the Attorney General is to be
requested to bring a legal action for a court determination of the applicability of the standards.
There is no such court determination that would allow the CVP to operate without conforming
to the standards.

Section (b)(2) provides an additional constraint with regard to the water quality at the
intake to the Contra Costa Canal. Even if the standards were determined by the court to not be
applicable to the CVP, then the D-1485 water quality standards would be applicable to the
intake of the Contra Costa Canal except under drought emergency water conditions pursuant to
a declaration by the Governor of California.

//

In 2004 Congress passed another law to ensure that Delta water quality standards and
objectives would be met.

1 PL 108-361 (HR 2828) in pertinent part provides:

2 (D) “Program to Meet Standards. -

3
4 (I) In General. - Prior to increasing export limits from the Delta for the purposes of
5 conveying water to south-of-Delta Central Valley Project contractors or
6 increasing deliveries through an intertie, the Secretary shall, not later than 1
7 year after the date of enactment of this Act, in consultation with the Governor,
8 develop and initiate implementation of a project to meet all existing water
9 quality standards and objectives for which the Central Valley Project has
10 responsibility.” (See Exhibit SDWA-177.)

11
12 Increasing exports from the Delta which to the extent such are for serving south-of-
13 Delta Central Valley Project contractors would be directly contrary to the direction of Congress
14 which was to assure that all existing (October 25, 2004) water quality standards and objectives
15 would first be met.

16
17 The WaterFix RDEIR/SDEIS Exhibit SWRCB-3 at ES.1.2.2.2 states: “It is not intended
18 to imply that increased quantities of water will be delivered under the proposed project.” At
19 best this statement is misleading and at worst is a lie. Figure 4.3.1-16 (Also Exhibit SDWA-
20 184) shows Alternative 4 H3 (ELT) as increasing average annual wet year exports by 624,000
21 acre feet over existing conditions and by 898,000 acre feet over the No Action Alternative.

22
23 At page 4.3.1-5 it is stated: “Under Alternative 4A, average annual CVP south of Delta
24 agricultural deliveries as compared to No Action Alternative would increase by up to 12% at
25 ELT and by up to 13% at LLT.”

26
27 At page 4.3.1-7 it is stated: as to the CVP “Therefore, average annual CVP south of
28 Delta M&I deliveries would increase or remain similar under Alternative 4A as compared to
the conditions without the project.” as to the SWP “Therefore, average annual total SWP
deliveries and average annual total SWP south of Delta deliveries under Alternative 4A would
show a decrease or an increase as compared to conditions without the project depending upon
the range of spring outflow requirements.”

At page 4.3.1-9 under CEQA Conclusion it is stated: “Alternative 4A would increase
water transfer demand compared to existing conditions. Alternative 4A would increase
conveyance capacity, enabling additional cross-Delta water transfers that could lead to
increases in Delta exports when compared to existing conditions.”

Contrary to Water Code Section 85021 the project will increase rather than decrease
export reliance on the Delta. Thereby harming legal users of water.

//

**THE BDCP/WATER FIX HAS UNREASONABLY DEFINED PURPOSES AND
NEED TO CONSTRAIN DELTA ECOSYSTEM IMPROVEMENTS TO
ALTERNATIVES WHICH CONVERT AGRICULTURAL LAND TO HABITAT**

1 **RATHER THAN REDUCE SWP AND CVP EXPORT OF WATER NEEDED TO**
2 **PROVIDE ADEQUATE WATER FLOW AND QUALITY**

3 There is strong evidence indicating that fish need water flowing into and out of
4 the Delta to the Bay. The timing and amounts are the subject of ongoing debate and
5 evaluation.

6 The SWP and CVP affect flow into and out of the Delta primarily through
7 diversions to storage and direct diversions from the tributaries and from locations in the
8 Delta to areas outside the Delta. The reliability of water supply for fish at times
9 directly conflicts with the reliability of the water supply for SWP and CVP deliveries
10 for other purposes and in particular exports from the Delta. The priorities for providing
11 such reliability are established by law.

12 ~~Water Code Section 85086 of the Delta Reform Act of 2009 assigned to the~~
13 ~~SWRCB the task of determining instream flow needs and new flow criteria for the~~
14 ~~Delta ecosystem necessary to protect public trust resources. Such determinations have~~
15 ~~not yet been completed, yet the RDEIR/SDEIS has been prepared and steps towards~~
16 ~~design and construction are underway. Such flow criteria are important to the required~~
17 ~~rigorous exploration and objective evaluation of all reasonable alternatives required by~~
18 ~~40 CFR 1502.14. The rush to decision in advance of critical evaluations is further~~
19 ~~evidence of predetermination and lack of a good faith effort at full disclosure and~~
20 ~~analysis of impacts.~~

21 Driving the need for ecosystem restoration is the need to address the dramatic
22 decline in fish species and in particular those in danger of extinction. The
23 RDEIR/SDEIS continues the proposition that habitat in the Delta and factors other than
24 the amount flow into and through the Delta are the cause of the subject fish declines.
25 The impacts of the SWP and CVP diversions to storage and diversions for export of
26 water that is not truly surplus are discounted. The projects divert to storage and divert
27 from the Delta the winter and spring natural flows that would otherwise flush the Delta
28 and push back salinity from the bay. Export pumping reverses flows and entrains fish.
Export of water released from storage depletes the amounts needed to meet senior
requirements including fish and wildlife requirements.

29 ~~The export of water from the proposed intakes on the Sacramento River where~~
30 ~~there are far greater numbers of fish will likely increase losses of fish, eggs and larvae~~
31 ~~due to entrainment and the impacts of screening. Unlike passage through the channels~~
32 ~~of the Delta passage through the tunnels does not allow for escape. Predators will surely~~
33 ~~occupy the proposed Sacramento River intakes forebays and tunnels. The related~~
34 ~~impacts to fish and wildlife have not been adequately examined.~~

35 //

36 ~~The correlation between SWP and CVP exports and the decline of the fisheries~~
37 ~~has been a concern for many years. In August of 1978 the State Water Resources~~
38 ~~Control Board rendered its Water Right Decision 1485. The Decision was the~~
39 ~~culmination of 32 days of evidentiary hearing initiated on November 15, 1976 and~~

1 ~~concluded on October 7, 1977. At that time the striped bass index was considered to be~~
2 ~~the indicator of ecosystem health for the Delta and Suisun Marsh. Striped bass were in~~
3 ~~effect the “canary in the coal mine”. As the years passed and striped bass populations~~
4 ~~plummeted, the water exporters claimed striped bass to be invasive species, predators~~
5 ~~on endangered species and major cause of fish declines wrongfully attributed to the~~
6 ~~export of water. The canary died and the death was ignored to facilitate greater~~
7 ~~exports. As Exhibits SDWA 178 show, striped bass, steelhead, Delta smelt, fall run~~
8 ~~Chinook salmon and winter run Chinook salmon all co-existed at relatively high~~
9 ~~populations at lower export levels.~~

7 ~~———— In 1978 the SWRCB concluded in D-1485 at page 13 that:~~

8 ~~“To provide full mitigation of project impacts on all~~
9 ~~fishery species now would require the virtual shutting~~
10 ~~down of the project export pumps.” (See Exhibit~~
11 ~~SWRCB-23.)~~

11 ~~———— The SWRCB also concluded in D-1485 at page 14 that:~~

12 ~~“Full protection of Suisun Marsh now could be~~
13 ~~accomplished only by requiring up to 2 million acre feet~~
14 ~~of fresh water outflow in dry and critical years in addition~~
15 ~~to that required to meet other standards.” (See Exhibit~~
16 ~~SWRCB-23.)~~

16 ~~———— Exports from the Delta were not curtailed and the additional 2 million acre feet~~
17 ~~of outflow was not provided for the marsh.~~

18 ~~———— Exhibits SDWA 178 show that significant declines in fish populations~~
19 ~~commenced when annual exports reached 2 million acre feet. Increased development~~
20 ~~in the watersheds and the effects of climate change would indicate that additional water~~
21 ~~yield would have to be developed within the Delta watershed to provide a comparable~~
22 ~~level of fish protection for the future and maintain the 2 million acre feet of exports.~~
23 ~~Little or no export water in dry years and more in wet years would likely be necessary~~
24 ~~in any event.~~

23 ~~———— An examination of the fish population graphs indicates that restoration of the~~
24 ~~ecosystem for fish is not correlated with Delta wetland habitat conditions in the 1850’s~~
25 ~~or at all. The likely relationship is to water conditions, particularly flow.~~

25 ~~———— The Delta was fully leveed and reclaimed by about 1930.~~

26 ~~“By 1930 all but minor areas of the swampland had been leveed and were in~~
27 ~~production.” (See page 8 of December 1960 Bulletin 76 Exhibit SDWA 169.) The~~
28 ~~USACE completed project levee construction on the San Joaquin River in the early~~
29 ~~1960’s. There are no significant changes in leveed areas or even riverine habitat which~~

1 appear to be the cause of the decline of the fisheries. In fact, there have been increases
2 in Delta wetland habitat during the periods of apparent decline. Mildred Island flooded
3 in 1983 and has not been reclaimed. Little Mandeville and Little Frank's Tract flooded
4 in the 1980's and have not been reclaimed. Lower Liberty Island levees were not
5 restored and the area has been in a tidal wetland condition since at least 2002.

6 ——— The focus on conversion of Delta land to habitat as a substitute for water for fish
7 is misplaced and the result of the manipulated BDCP purposes. Adequate analysis has
8 not been done to determine if development of shallow wetland habitat is actually
9 detrimental to salmon and other anadromous fish. In particular, stranding and predation
10 from otters, egrets, herons, cormorants, gulls, white pelicans and the like needs further
11 analysis. The limited study (Exhibit SDWA 179) showing a picture of larger salmon
12 smolts raised for a time in a wetland versus smaller smolts raised in the channel is cited
13 by BDCP proponents as the evidence that shallow seasonal wetland in the Delta would
14 be a substitute for flow and justification for a 50 year take permit. The study monitored
15 caged smolts in the channel where the fish must constantly swim against the current
16 and compared those smolts to smolts in cages in shallow wetlands where there was
17 little or no current. The experiment did not attempt to evaluate stranding or predation
18 and it is doubtful that the smolts in the channel cages if uncaged would spend as much
19 time swimming against the stronger currents rather than seeking areas of the channel
20 where the velocity is lower. The presentation of results by BDCP including the fat
21 fish/skinny fish photo neglected to show the sizes of the fish from the cages in the
22 channel upstream of the shallow habitat which reportedly were comparable to those in
23 the wetlands. "During periods of low, clear water, fish growth rates in the river site
24 above the floodplain were comparable to those in the floodplain". (Exhibit SDWA-
25 179, pg. 1.)

26 Creation of Floodplain Habitat Is Not a Substitute for Flow

27 ——— The available evidence and studies do not support such a substitution. The
28 floodplain habitat which is suggested as potentially beneficial is that which is inundated
by high flows for a limited period; involves a large area of water of a proper depth to
help avoid predation; assumes avian predator populations are limited; is properly
drained to avoid stranding and avoids increased water temperatures detrimental to
salmonids.

1 The Jeff Opperman Final Report for Fellowship R/SF 4 referenced above
2 containing the picture of the fat fish and skinny fish is often shown as support for the
3 proposition that floodplain habitat can be substituted for flow (Exhibit SDWA 179.)
4 The study does not put forth that conclusion but suggests "that juvenile Chinook benefit
5 from access to floodplain habitats". (Page 2) It is important to recognize that the test
6 fish were caged and thus predation from birds, fish and other animals was not an issue.
7 Stranding was down played but admittedly not tested. The test was conducted in and
8 along the Cosumnes River. The skinny fish were in the river swimming against the
9 current and because they were in cages and couldn't move with the current or move to
10 quiet and more productive water. The fat fish obviously saved their energy for growth

1 and apparently benefitted from improved food availability. The report states “During
 2 high flows the river offers poor habitat and fish living in this type of habitat will tend to
 3 be displaced downstream.” High flows and displacement downstream are likely not
 4 detrimental. It is generally accepted that the salmon do well in high flow years. The
 5 return of adults (escapement) is usually higher two and one half years after a high flow
 6 year. It is recognized that ocean conditions also play a part and may in some cases
 7 reduce escapement nullifying the benefit of high flow. The difference in food
 8 availability in the high flow channel versus in the quiet water may not be significant in
 9 the test given the consumption of energy and lack of opportunity for the skinny fish to
 10 move to more favorable parts of the river. Displacement downstream into the cooler
 11 and more productive parts of the estuary is likely not bad for displaced salmon smolts.

8 Floodplain Habitat Not Accompanied by High Flow Does Not Appear to Result
 9 in Increased Chinook Salmon Ocean Survival and May Not Improve Survival of
 10 Sacramento River Juvenile Chinook Salmon Migrating to the Ocean

11 ——— In the study titled “Floodplain Rearing of Juvenile Chinook Salmon: Evidence
 12 of enhanced growth and survival” by Sommer, et al. (2001), a copy of which is Exhibit
 13 SDWA 180, tests were conducted in the Yolo Bypass in 1998 and 1999. The study
 14 concluded that during such years salmon increased in size substantially faster in the
 15 seasonally inundated agricultural floodplain than in the river, suggesting better growth
 16 rates. The study, however, provides: “Survival indices for coded wire tagged groups
 17 were somewhat higher for those released in the floodplain than for those released in the
 18 river, but the differences were not statistically significant. Growth, survival, feeding
 19 success, and prey availability were higher in 1998 than in 1999, a year in which flow
 20 was more moderate indicating that hydrology affects the quality of floodplain rearing
 21 habitat”. (Exhibit SDWA 180, pg. 1.)

18 ——— In the discussion the authors provide:

19 “Mean length increased faster in the Yolo Bypass during each
 20 study year, and CWT fish released in the Yolo Bypass were
 21 larger and had higher apparent growth rates than those released
 22 in the Sacramento River. It is possible that these observations
 23 are due to higher mortality rates of smaller individuals in the
 24 Yolo Bypass or of larger individuals in the Sacramento River;
 25 however we have no data or reasonable mechanism to support
 26 this argument.”

25 “Elevated Yolo Bypass survival rates are also consistent with
 26 significantly faster migration rates in 1998, the likely result of
 27 which would be reduced exposure time to mortality risks in the
 28 delta, including predation and water diversions.”

28 ——— In the study “Habitat Use and Stranding Risk of Juvenile Chinook Salmon on a
 Seasonal Floodplain” by Sommer, et al. (2004), a copy of which is Exhibit SDWA 181, the

1 authors build upon the above study with further testing in 2000 and present their analysis of
2 ocean survival.

3 ——— The author's abstract provides:

4 “Although juvenile Chinook salmon *Oncorhynchus tshawytscha*
5 are known to use a variety of habitats, their use of seasonal
6 floodplains, a highly variable and potentially risky habitat, has
7 not been studied extensively. Particularly unclear is whether a
8 seasonal floodplain is a net “source” or net “sink” for salmonid
9 production. . . Adult ocean recoveries of tagged hatchery fish
10 indicate that seasonal floodplains support survival at least
11 comparable with that of adjacent perennial river channels. These
12 results indicate that floodplains appear to be a viable rearing
13 habitat for Chinook salmon, making floodplain restoration an
14 important tool for enhancing salmon production. (Emphasis
15 added.)

16 ——— The data provided for ocean survival is as follows:

17 Table 1. Number of coded wire tags recovered in the ocean and
18 commercial fisheries for Chinook salmon released in the Yolo
19 Bypass and Sacramento River. The total number of tagged fish
20 released in each location for each year is shown in parentheses.
21 The survival ration is calculated as the number of Yolo Bypass
22 recoveries divided by the number of Sacramento River
23 recoveries.

Release Group	1998 (53,000)	1999 (105,000)	2000 (55,000)
Yolo Bypass	75	136	27
Sacramento River	35	138	47
Survival Ration	2.14	0.99	0.57

24 ——— In 1998 Yolo Bypass looked like a benefit, in 1999 it was a push and in 2000
25 Yolo Bypass looked like a detriment.

26 ——— It is assumed that shaded river aquatic habitat is desirable for special status fish.
27 Attention is called to the BDCP Draft Chapter 8 which puts forth the need to control
28 predators by removing structures which affect flow fields and provide shade. The focus
appears to be on abandoned docks, pilings and the like, however, shaded river aquatic
habitat can provide the same effect on flow and provide shade. The impact of shaded
river aquatic habitat on special status fish is unclear.

There are a number of significant adverse impacts associated with so called
restoration of tidal floodplain habitat within the Delta which have not been objectively
considered or mitigated.

1 ~~———— In the Delta where the waters are tidal the proposed habitat restoration is not~~
2 ~~necessarily floodplain but rather is tidal wetlands which is inundated most if not all the~~
3 ~~time.~~

4 ~~———— Increased salinity intrusion could result from the increased tidal prism and/or~~
5 ~~creation of shortened pathways to the interior Delta and particularly to the large DWP~~
6 ~~and CVP intakes whether in the north Delta or south Delta.~~

7 ~~———— Setting back, breaching, degrading and/or not restoring levees in the Delta has~~
8 ~~significant adverse impacts.~~

9 ~~Increases in the tidal prism at locations similar to and including the area in and~~
10 ~~around the lower Yolo bypass not only induces greater salinity intrusion, but also~~
11 ~~results in advection adversely affecting the out migration of salmon smolts some of~~
12 ~~which are endangered.~~

13 ~~———— The regularly or permanently inundated areas constitute increased habitat for~~
14 ~~predator species and increase ambush locations affecting the fish species of concern.~~
15 ~~The increase in water surface and wetland vegetation will greatly increase the~~
16 ~~evaporation and evapotranspiration of fresh water. In many cases there is an increased~~
17 ~~threat of flooding to surrounding areas due to increased fetch and wave action across~~
18 ~~the habitat area and increased seepage into adjoining levees and lands.~~

19 ~~———— There is also the harm to and loss of agricultural land and production.~~

20 ~~———— Exhibit SDWA 182 contains excerpts from the April 2011 report by Dave~~
21 ~~Vogel titled “Insights into the Problems, Progress, and Potential Solutions for~~
22 ~~Sacramento River Basin Anadromous Fish Restoration” prepared for the Northern~~
23 ~~California Water Association and Sacramento Valley Water Users contains the results~~
24 ~~of studies which include the Liberty Island Ecological Reserve area. (The entire study~~
25 ~~can be viewed on the Northern California Water Association website by clicking on~~
26 ~~“Fisheries”)~~

27 ~~———— At pages 112 and 113 the report provides:~~

28 ~~———— Subsequent, additional juvenile salmon telemetry studies were~~
~~conducted by Natural Resource Scientists Inc. on behalf of the USFWS~~
~~and CALFED in the north Delta (Vogel 2001, Vogel 2004). Triangulating~~
~~radio tagged fish locations in real time (Figure 61) clearly demonstrated~~
~~how juvenile salmon move long distances with the tides and were~~
~~advected into regions with very large tidal prisms, such as upstream into~~
~~Cache Slough and into the flooded Prospect and Liberty Islands (Figure~~
~~62). During the studies, it was determined that some radio tagged salmon~~
~~were eaten by predatory fish in northern Cache Slough, near the levee~~
~~breaches into flooded islands (discussed below).~~

1 At page 120 the report provides:

2 ~~During recent years, there has been an emphasis to reclaim or~~
3 ~~create shallow, tidal wetlands to assist in re recreating the form and~~
4 ~~function of ecosystem processes in the Delta with the intent of benefitting~~
5 ~~native fish species (Simenstad et al. 1999). Among a variety of measures~~
6 ~~to create such wetlands, Delta island levees either have been breached~~
7 ~~purposefully or have remained unrepaired so the islands became flooded.~~
8 ~~A recent example is the flooding of Prospect Island which was~~
9 ~~implemented under the auspices of creating shallow water habitat to~~
10 ~~benefit native fish species such as anadromous fish (Christophel et al.~~
11 ~~1999). Initial fish sampling of the habitat created in Prospect Island~~
12 ~~suggested the expected benefits may not have been realized due to an~~
13 ~~apparent dominance of non native fish (Christophel et al. 1999).~~
14 ~~Importantly, a marked reduction of sediment load to the Delta in the past~~
15 ~~century (Shvidchenko et al. 2004) has implications in the long-term~~
16 ~~viability of natural conversion of deep water habitats on flooded Delta~~
17 ~~islands into shallow, tidal wetlands. The very low rates of sediment~~
18 ~~accretion on flooded Delta islands indicate it would take many years to~~
19 ~~convert the present day habitats to intertidal elevations which has~~
20 ~~potentially serious implications for fish restoration (Nobriga and~~
21 ~~Chotkowski (2000) due to likely favorable conditions for non-salmonid~~
22 ~~fish species that can prey on juvenile salmon. Studies of the shallow water~~
23 ~~habitats at flooded Delta islands showed that striped bass and largemouth~~
24 ~~bass represented 88 percent of the individuals among 20 fish species~~
25 ~~sampled (Nobriga et al. 2003).~~

26 ~~There have likely been significant adverse, unintended~~
27 ~~consequences of breaching levees in the Delta. There is a high probability~~
28 ~~that site specific conditions at the breaches have resulted in hazards for~~
29 ~~juvenile anadromous fish through the creation of favorable predator~~
30 ~~habitats. The breaches have changed the tidal prisms in the Delta and can~~
31 ~~change the degree in which juvenile fish are advected back and forth with~~
32 ~~the tides. (Figure 61; previously discussed). Additionally, many of the~~
33 ~~breaches were narrow which have created deep scour holes favoring~~
34 ~~predatory fish. Sport anglers are often seen fishing at these sites during~~
35 ~~flood or ebb tides. Breaching the levees at Liberty Island is an example~~
36 ~~(Figure 72 and 73). Recent acoustic tagging of striped bass in this vicinity~~
37 ~~confirmed a high presence of striped bass (Figure 74, D. Vogel, unpub.~~
38 ~~data.)~~

39 The increased loss of fresh water due to creation of tidal and wetland habitat is clear.
40 Exhibit SDWA-183 is Table A-5 from DWR Bulletin 168, October 1978 shows the annual Et
41 values for various crops and for Riparian Vegetation and Water Surface. The Riparian
42 Vegetation and Water Surface 67.5 inches can be compared to tomatoes 33.8 inches and alfalfa
43 46.0 inches. The increased fresh water loss is from 33.7 inches when compared tomatoes and

1 21.5 when compared to alfalfa. The increased loss of fresh water is particularly significant in
2 drier years.

3 The Division of Water Resources (predecessor to The Department of Water Resources)
4 in the Sacramento – San Joaquin Water Supervisor’s report for the year 1931 dated August
5 1932 and designated Bulletin 23 includes the results of studies of water consumption of tules
6 and cat-tails Exhibit DWR-22 includes Tables 69, 74, 75 and 77 from such report.
7 Consumptive use for open water surface is shown as 4.91 acre feet per acre, tules at 9.63 acre
8 feet per acre, and alfalfa at 3.51 acre feet per acre. To examine the relatively high consumptive
9 use for tules the U.S. Department of Agriculture undertook a continuation of the study of
consumptive use for asparagus, tules and cat-tails. The tables show an average of 14.63 acre
feet per acre for cat-tails and 13.48 acre feet per acre for tules. Results from cat-tails and tules
grown in tanks at Camp 3, King Island for 1931 are shown in Table 77. The results for normal
sized tules was 8.0 acre feet per acre.

10 **INJURY TO LEGAL USERS FROM THE PROPOSED CHANGES INCLUDE**
11 **INJURY TO MUNICIPAL, INDUSTRIAL, AND AGRICULTURAL USERS FROM**
12 **ALTERATION OF WATER FLOWS AND ALTERATION OF WATER QUALITY.**

13 Legal users of water are entitled to protection of the priority of their traditional water
14 rights, contract rights and statutory protections and failure to provide such protection
15 constitutes injury. Additionally, such users are injured when the mitigation and affirmative
obligations of the CVP and SWP are not met by the projects and/or the burdens are shifted onto
them.

16 The CVP and SWP must provide salinity control for the Delta and assure an adequate
17 Delta supply including maintenance of the Delta common pool, provision of overland facilities
18 and maximize use of the stored water released for export to provide incidental benefit. Most
19 important is the prohibition of project exports from the Delta of water necessary to provide
water to which Delta users are ‘entitled’ and water which is needed for salinity control and an
adequate supply for Delta users. Such burdens are not to be shifted to others.

20 The CVP has the burden of meeting the anadromous fish doubling and other
21 requirements of the CVPIA which can be considered to be mitigation and/or enhancement.
22 The SWP has the burden of preserving fish and wildlife which should be directed at
23 populations existing at the 1960 inception of the project. Such burdens should be met by the
24 projects and not be shifted to others. Additionally, the SWP and CVP must mitigate the
25 damages caused by their respective projects including and without limitation the inducement of
26 upstream water use, diversion of the San Joaquin River at Friant, water delivery to the San Luis
27 Unit without a drainage outlet to the ocean, construction of flood control projects, ship
28 channels and the like, depletion of surface flow and groundwater through water transfers and
water right settlement mechanisms, destruction of and isolation of fish spawning habitat,
creation of habitat which induces salinity intrusion and increases the concentrations of methyl
mercury, microcystis and other harmful elements, damage to fish from operation of large
pumping and other diversion facilities. Such burdens should be met by the projects and not be
shifted to others.

1
2 The resulting degradation in quality from the proposed changes and related mitigation
3 injures legal users in the Delta by increasing salinity in the water supply thereby limiting reuse,
4 increasing treatment costs and adding salinity to the soil thereby inhibiting plant growth. The
5 increase in methyl mercury, microcystis, boron and other harmful constituents creates a danger
6 to human and animal health both in the channels, on the farm and in the urban areas, and
7 contaminates the land and potentially the safety of crops for human consumption.

8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

The Adverse Impacts To Legal Users Cannot Be Adequately Evaluated At This Time Due To The Lack Of Description And Analysis Of The Project and Its Operations

Figures 4.3.1-15, 16 and 17 Exhibit SWRCB-3 show for different year types the portions of the north and south Delta exports passing through the channels of the Delta and through the proposed new intakes and tunnels. Much of the justification for the changes is the forecasted failure of Delta levees due to sea level rise and earthquakes. The project does not include funds or plans for improvement of the Delta levees to avoid such failures or to promptly restore the same to mitigate the consequences. There is no adequate analysis of the impacts associated with the diversion of all water for export through the new intakes and tunnels or the intended intentional flooding of Delta islands under the pretense of mitigation for project related impacts.

Petitioners contend that the proposed changes would allow the projects to export water in the event of levee failures due to earthquakes and/or sea level rise and avoid the necessity of releasing reservoir water to flush saltwater from the Delta. The legal obligation of the projects to provide salinity control even if it requires overland supply and even if on occasion it requires water from reservoirs is not eliminated by reason of the desire to export water. The export of water is junior to the obligation to provide salinity control. To construct and operate facilities for the purpose of evading the legal obligation to protect legal users of water in the Delta is obviously injurious to such users.

It is obvious that avoidance of the threat of earthquake damage to levees in the Delta does not eliminate the earthquake threat to the hundreds of miles of canals, pipelines, pumping plants and electrical facilities used to divert and transport water from the Delta to areas south of the Delta. Exhibit SDWA-188 shows the active faults paralleling and in proximity to the project facilities delivering water to the south. Exhibit SDWA-189 shows an example of the California Aqueduct and the pumps and pipelines delivering water to the South Coastal region. Exhibit SDWA-190 shows the earthquake faults beneath the pipelines from the Edmonston Pumping Plant to the Tehachapi Afterbay Control Structure. Exhibit SDWA-191 is a drawing of the 20-Island failure scenario circulated by DWR. Exhibit SDWA-192 contains Extracts of USACE May 23, 2007 comments on the 20-Island failure analysis. A more careful analysis of the threat of levee failure must be undertaken as a prerequisite to consideration of the proposed changes including interim measures during construction if such is ultimately approved.

Petitioners contend a sea-level rise of as much as 5 1/2 feet can be expected within 90 years implying that such a rise is applicable to the Delta and is compelling their pursuit of this project. Complete analysis has not been presented as to the likely extent of sea level rise

1 impacting the Delta and the relevance to the Petitioners duty to avoid injury to legal users.
2 Exhibit SDWA-193 is a copy showing the earth from Google Maps. The earth is not shown as
3 flat. From personal experience I have verified that the earth is not flat. Of equal importance is
4 the recognition that sea level rise varies with location and is impacted differently by the time
5 duration of surges and likely winds, ocean currents and changes in the earth surface. Exhibit
6 SDWA-194 shows the mean sea level trend for the Golden Gate, Alameda, Juneau Alaska and
7 Pietarsaari, Finland. Exhibit SDWA-195 contains plots from the NOAA website of sea level
8 rise and fall arrows reflecting degree for various parts of the earth. Delta agricultural levees
9 incorporate 18 inches of freeboard and many are being built with wider crowns to
10 accommodate greater freeboard in the future. A more careful analysis of sea level impact in
11 the Delta is merited. The July 26, 2016 CVFPP climate change briefing plot of actual sea level
12 rise, San Francisco includes a 33 year Gaussian average which appears to be flattening out.
13 See Exhibit SDWA-196.

14 It is also important to recognize that abandonment of Delta levees could result in a large
15 loss of infrastructure. Exhibit SDWA-197 shows the potential loss of Delta infrastructure
16 within the 100-year flood limits as \$56.3 billion in 2005 dollars and \$67.1 billion in 2050
17 dollars. Such impacts will adversely impact legal users and must be considered as possible
18 impacts of the proposed changes.

19 A comparison of Exhibit SDWA-185 and 186 shows that historic salinity intrusion into
20 the Delta occurred infrequently and late in the growing season, that after the commencement of
21 the CVP salinity control was provided and that after commencement of the SWP salinity peaks
22 were controlled but longer duration of salinity intrusion at lower levels was the result. Further
23 increases in salinity will increase the already troublesome concentrations of salinity
24 encountered by legal users.

25 This portion of my testimony is presented to verify some of the documents presented by
26 SDWA et.al. during cross-examination of the Petitioners' witnesses. As was argued by SDWA
27 et.al. and finally agreed to by the hearing officers, SDWA et.al. introduced certain documents
28 to show that Petitioners were not in compliance with various federal and state statutes and
other regulatory provisions which mandate how the Petitioners must operate the SWP and the
CVP. Until the Petitioners plan for and do operate in accordance with these requirements there
cannot be an accurate base case or no action alternative for their project. Without such
accurate base case or no action alternative, the modeling supporting the WaterFix is
meaningless as it does not indicate what the effects of the project would be.

SDWA 5 includes California Water Code sections 12200-12205 (page 336), commonly
referred to as the Sacramento-San Joaquin Delta Act or Delta Protection Act of 1959. The
language of the Act speaks for itself, but it is clear that the Act requires the SWP and CVP to
provide both water quality and supply for all in-Delta needs. It also mandates that upstream
reservoir releases be coordinated to the maximum extent possible to help meet the various
goals of the Act; water quality and supply.

//

1 SDWA 6 includes excerpts of Title 34 Public Law 102-576 (page 1 and 12) which is
2 the Central Valley Project Improvement Act. The complete Public Law is offered as SDWA-
3 200.

4 SDWA 7 includes excerpts from the Final Restoration Plan for the Anadromous Fish
5 Restoration Program (pages 35-38, 67-68, 81-84, 86-88, 92-101). SWRCB-99 is the complete
6 Plan.

7 SDWA 8 includes excerpts from the Public Law 108-361 (Section 103 Bay Delta
8 Program, Program to Meet Standards (i) through (vii)), the Water Supply, Reliability and
9 Environmental Improvement Act (federal CalFed Reauthorization) of 2004. The full Act is
10 included as SDWA-201

11 SDWA 9 includes excerpts from the USBR Program to Meet Standards (pages ES -
12 through ES-6), which was mandated in PPL 108-361 referenced above. The Complete
13 Program is SDWA-202

14 SDWA 10 (pages 149 - 156) and 21 (page 184 and 185) are excerpts from D-1641.
15 That water right order is SWRCB-21

16 SDWA 11 is the Response Plan for Water Level Concerns produced by DWR and
17 USBR as mandated by D-1641.

18 SDWA 13 includes excerpts of the Water Quality Response Plan (pages 1 and 6)
19 produced by DWR and USBR as mandated by D-1641. The complete Plan is SDWA-203 As
20 noted during cross examination, a provision of this Plan (on page 6) requires that transfers of
21 water through the CVP or SWP must conform to the requirements of Joint Point of Diversion
22 (as defined and authorized by D-1641) including this Plan.

23 SDWA 14 is the letter dated 7-1-2005 from the SWRCB to DWR and USBR approving
24 the Water Quality Response Plan referenced above with certain changes which add compliance
25 with a pending cease and desist order.

26 SDWA 15 includes excerpts from SWRCB WR Order 2006-0006 (pages 1, 28, 32, and
27 33), a Cease and Desist Order issued against DWR and USBR. The complete Order is SDWA-
28 204

SDWA 16 includes excerpts from SWRCB WR Order 2010-0002 (pages 1, 2, 19 - 26),
which amended WR 2006-0006. The complete Order is SDWA-205

SDWA 24 includes excerpts from Public Law 99-546 (page 10), the federal law
approving the Coordinated Operations Agreement between California and the US government.
This Act requires that the USBR operate in compliance with all regulatory mandates imposed
on it by the SWRCB unless certain findings are made and pursued.

1 SDWA 2 is a printout from the DWR California Data Exchange Center (CDEC)
2 showing the hydrologic classification indices for the Sacramento and San Joaquin Rivers. The
3 printout goes from 1901 to 2015. This exhibit is submitted to show how often a dry or critical
4 year follows a dry or critical year, which was the criteria for considering seeking a TUCP
under the terms of the January 2016 draft Biological Assessment.

5 SDWA 3 includes excerpts from the draft Biological Assessment for the California
6 WaterFix (pages 3-214 to 3-215), dated January 2016. The complete BA is SWRCB-104. The
7 excerpts describe the conditions under which DWR and USBR would seek a temporary
8 urgency change to their permits. Such a change would mean that they would not be operating
9 under their current terms and conditions and thus would be adversely affecting the beneficial
uses protected by those terms and conditions. This also indicates that the modeling done in
support of the Petition does not accurately reflect how the projects would in fact be operating
under these certain hydrologic conditions.

10 SDWA 12 are emails (dated November 2, 2016, July 5, 2016, July 6, 2016, July 12,
11 2016, July 13, 2016, and August 5, 2016) between DWR Delta personnel and John Herrick,
12 Esq., counsel and general manager of SDWA regarding water level problems in the south Delta
13 and the impacts therefrom. These emails indicate that even when the levels are in accordance
14 with the Water Level Response Plan they may not be sufficiently protective of local diversions.
In those emails Mr. Herrick asks that the minimum levels set forth in the Plan be re-evaluated,
as is provided in the Plans.

15 SDWA 18 are printouts from the DWR Operations and Maintenance website showing
16 measured and 30-day averaged EC at the four southern Delta water quality compliance
17 locations from January 1, 2014 to August 2, 2016. These data show that whereas the modeling
18 results of averages presented by the Petitioners' modeling panel never rise above the current
standards of 0.7/1.0 EC, in fact these standards were regularly violated over the term shown.

19 SDWA 27 is an email and attachments sent from DWR personnel to a service list of
20 interested recipients date July 15, 2016. The email describes an ongoing transfer of water and
21 the projected impacts to water quality and water levels. One of the attachments is a graph
22 showing projected EC at Old River near Middle River with and without the transfer. In both
23 cases, the projected water quality is below the 0.7 EC of the standard. These forecasts also
24 indicate that small changes in exports (the 350 cfs transfer) can affect southern Delta water
25 quality by as much as (approximately) 120 EC.

26 SDWA 35 is a printout of the actual and 30-day averages for EC at the four southern
27 Delta compliance locations. This actual data shows that at the same Old River near Middle
28 River location the daily EC's were significantly higher than the DWR forecasts in SDWA 27.
Whereas the forecasted EC was never above 0.7 EC, the actual EC reached 1120 EC indicating
that the modeling forecasts do not reflect actual conditions.

SDWA 28 are CDEC printouts (graphs) for EC at Old River near Tracy and the San
Joaquin River at Brandt Bridge from June 22, 2006 through August 8, 2016. These graphs
show that although the modeling results of average EC presented by Petitioners show no

1 exceedances above the 0.7/1.0 EC standard, the actual EC's over this time frame exceed the
2 standards regularly. This actual data covers much of the time during which D-1641 was in
3 effect whereas the Petitioners' modeling covers a time frame when D-1641 was not in effect.

4 SDWA 31 includes excerpts (page 30) from the Central Valley Regional Water Quality
5 Control Board's report entitled Salinity in the Central Valley, dated May 2006. The excerpts
6 show that the salts coming down the San Joaquin River each year amount to 742 thousands of
7 tons a year (mean from 2001 to 2004) with the annual salt load minimums, maximums and
8 mean for the period of 1985 to 2004 of 263,000, 2,557,000 and 922,000 tons respectively. The
9 complete Report is SDWA-206.

8 Dated: August 31, 2016

10 _____
11 DANTE JOHN NOMELLINI, SR.
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28