CENTRAL DELTA WATER AGENCY SOUTH DELTA WATER AGENCY LOCAL AGENCIES OF THE NORTH DELTA





April 23, 2014

Assemblymember Anthony Rendon State Capitol P.O. Box 942849 Sacramento, CA 94249-0063

Re: AB1331 As Amended April 21, 2014

Dear Assemblymember Rendon:

These comments are jointly submitted on behalf of the Central Delta Water Agency and Local Agencies of the North Delta ("LAND"). As interests within the Delta, we submit these comments in an effort to constructively engage primarily on the issue primarily on Bond funding for Chapter 8, Sacramento-San Joaquin Delta Sustainability. Because of our concern for existing agriculture and existing communities in the Delta we, unlike many, are not asking for additional moneys to be allocated toward our region. Instead, we urge that any Bond investments in the Delta be made with regard to the existing communities and with the recognition that any bond funded activities in the Delta must both be supported by sound science and be planned and maintained in a manner that is consistent with the maintenance of the agriculturally-based economy of the Delta.

Focusing specifically on the fish that have received so much attention, we do not believe that additional conversion of agricultural land in the Delta to so-called habitat, will help much, if at all. It is well-documented that the focal fish populations of the Delta crashed after the construction of the CVP and SWP pumps in the south Delta, well after the reclamation of the Delta islands occurred around the turn of the 19th century. Looking to habitat creation as a panacea for the damage done to the Delta by the SWP and CVP – along with other stressors – is not likely to succeed and therefore does not provide the public benefits necessary to justify Bond funding. Moreover, as explained more fully below, to the extent the SWP and CVP have obligations to mitigate for existing impacts, those actions would not represent the types of actions that should be funded by the statewide bonds on behalf of all taxpayers in the state.

LAND is a coalition comprised of local reclamation, levee and water districts in the northern geographic area of the Delta.

I. Background

We appreciate your commitment to a thorough and equitable process of developing the Water Bond. While we support certain investments in the Delta, we are concerned that AB 1331 currently allows for a significant portion of the funding to be used to shift the costs of the Bay Delta Conservation Plan ("BDCP") away from the project contractors and onto the general taxpayers of the State. As you know, the BDCP seeks issuance of a fifty (50) year take permit of endangered species for SWP/CVP exports from the Delta.

According to the BDCP itself, "The BDCP is expected to secure a large portion of the funds allocated to Delta sustainability, as well as smaller portions of funds allocated to conservation and watershed protection." (Draft BDCP, Chapter 8, p. 8-84 (Nov. 2013), see Exhibit A, BDCP Chapter 8 excerpts.) The exact amounts intended to be used from two separate statewide bonds are detailed in Table 8-37, and total over \$3.7 billion. It is for this reason, that proponents of BDCP have consistently called for larger funding allocations to Chapter 8 "Sacramento San Joaquin Delta Sustainability."

Proponents of the BDCP claim that the habitat and conservation proposals in the plan as having statewide public benefits, but clear statewide benefits are not present. The current public review draft of the BDCP shows that implementation of the BDCP could potentially imperil nine key species including saimon, Delta smelt and greater sandhill cranes.² Independent scientific review has repeatedly found that the BDCP is overly optimistic with respect to the potential benefits to imperiled species by creating new habitat in the Delta, which cannot substitute for flows.³ Delta restoration projects must be developed using the best available science and criteria developed through transparent, locally inclusive processes to that actually benefit species at risk, not to fulfill regulatory requirements for one project. The so called "restoration" components of BDCP do not meet these basic criteria and should not receive public funds through a water bond or any other source. In short, it is a misnomer to call funds destined for BDCP "Delta Sustainability."

While we oppose funding of any aspect of BDCP, some habitat improvement and conservation projects could be helpful in the Delta and its watersheds. It is vital, however, that these habitat projects be conducted in a manner that is compatible with existing agricultural uses and communities in the Delta. Notably, there are already thousands of acres of acres of land in the Delta that are already owned by the state or other entities that are already or are planned for habitat and related uses. (See Exhibit B, Habitat Types Acreage Table.) Any Bond funds should first be directed

See article by Matt Weiser, *Fate still unclear for nine species in Delta water tunnel plan* (December 18, 2014), available at: http://www.sacbee.com/2013/12/18/6009767/fate-still-unclear-for-nine-species.html (species include: Longfin smelt, Delta smelt, Winter Spring and Fall Chinook salmon, Green sturgeon, White sturgeon, Steelhead and Greater sandhill crane.

See, e.g., Delta Science Program Independent Review Panel Report (BDCP Effects Analysis Review, Phase 3), p. 25 ("The Effects Analysis does not adequately defend conclusions regarding the net effects of the BDCP, including habitat restoration. The net effects analysis tends to over-reach conclusions of positive benefits for covered fish species, given the inability to quantify the overall net effect and the realization of high uncertainty."); see also Nature Conservancy and American Rivers, Panel Review of the Draft Bay Delta Conservation Plan (2013), p. 82 ("The BDCP is overly optimistic about the potential benefits to delta and longfin smelt of physical habitat restoration.").

toward improving the habitat values of those lands, prior to the purchase and conversion of new lands to be modified and managed for habitat purposes. The amendments we propose below promote this direction.

From a historical perspective, moreover, it is important to note that the costs of the SWP launched by the passage of the California Water Resources Development Bond Act (1960 General Election) was to be paid by the project contractors. The argument in favor of passage clearly provided:

The provision will not be a burden on the taxpayer; no new state taxes are involved; the bonds are to be repaid from project revenues, through the sale of water and power. In other words, it will pay for itself.

(See Exhibit C, copy of the Argument in Favor of the passage; see also Exhibit D, quotation of then Governor Edmund G. (Pat) Brown in the case of Goodman v. County of Riverside (1983) 140 Cal. App. 3rd 900, 906, wherein the Governor stated "the plan itself is completely self-supporting. The law provides that the contracts have to provide for the repayment of the cost of the entire Project."

The SWP was a plan to continue to develop water projects at contractor expense to meet the obligations to the Delta and other areas of origin, including salinity control for the Delta (Water Code, §§11460 et seq. and Water Code, §§12200 et seq.); to preserve fish and wildlife (Water Code, §11912); and to meet the project Table A entitlements of about 4.25 million acre feet. No water was to be diverted from the Delta for use elsewhere unless adequate supplies for the Delta were first provided.

The SWP plan recognized that development within the watersheds, including recapture of project water and demands for Table A entitlements would build over time and that by the year 2000 five million acre feet per year of supplemental water delivered to the Delta would be required from developments in North Coast watersheds (Exhibit E). None of such North Coast water was developed. The lack of developed water together with the failure to provide a drainage system for the San Joaquin Valley and failure of the SWP to operate with sufficient carryover storage to meet senior obligations and water quality standards during dry years, are the causes of the crises which confronts us today.

The financial obligations of the SWP contractors should not now be shifted onto the state taxpayers. Yet, the BDCP documents clearly show the intent is to shift the cost of conservation measures claimed to be ecosystem enhancement onto the general taxpayers. Endangered fish have not been preserved by the SWP and in fact have suffered a severe decline since the start of project operations and there is no direct correlation between the fish declines and terrestrial or wetland habitat in the Delta (Exhibit F). In order to ensure the requisite public benefits, conditions around the types of restoration projects that qualify for funding are needed – whether the restoration is BDCP related or not.

For historical perspective on why we are here now, it is important to recognize that the State Water Resources Control Board in its 1978 Decision 1485 at page 13, found that: "To provide full mitigation of project impacts on all fishery species now would require the virtual shutting down of the project export pumps." Yet Project exports were not curtailed and in fact continued to increase after 1978 (Exhibit G).

II. Specific Suggestions to April 21, 2014 Version of AB 1331

It is in the context of the above that we request the following amendments:

Page 3, lines 35-37, Section 79701(d)

Replace the last sentence with the following: "However, the planned water storage projects in the North Coast of California which were to supplement water flowing into the Delta by 5 million acre ft. per year by the year 2000 were not constructed and the water environment has deteriorated."

Page 9, line 10, Section 79711(a)

At the beginning before "Funds" insert "Subject to the limitations in Section 79712".

Page 9, line 12, Section 79711(b)

This language should be replaced with the following language from the earlier versions of AB 1331:

"Funds provided by this division shall not be expended for the acquisition or transfer of water rights except for a permanent dedication of water approved in accordance with Section 1707 where the state board specifies that the water is in addition to water that is required for regulatory requirements as provided in subdivision (c) of Section 1707. The requirement that a dedication of water be permanent shall not preclude the expenditure of funds provided by this division for the initiation of the dedication as a short-term or temporary urgency change, that is approved in accordance with Section 1707 and either Chapter 6.6 (commencing with Section 1435) of, or Chapter 10.5 (commencing with Section 1725) of, Part 2 of Division 2, during the period required to prepare any environmental documentation and for approval of permanent dedication."

This change is crucial as the proponents of BDCP intend to substitute purchase of water with public funds when the habitat creation does not show the measureable improvements for species. (See Exhibit H, a 2012 document obtained from the Kern County Water Agency showing BDCP project proponents plan to use bond funds for water purchases, also available at: http://www.contracostatimes.com/ci_10152127.) The prior language protected against creation of a new version of the failed Environmental Water Account, which cost taxpayers dearly and delivered few benefits to fish. This Bond should not become the vehicle for such waste, regardless of the outcome of BDCP. Moreover, requiring water transfers to go through the normal State Water Resources Control Board Water Code section 1707 transfer process provides needed protections to the environment and would help ensure that environmental impacts of water transfers (particularly the practice of groundwater substitution) are fully reviewed and properly mitigated.

Page 9, line 18, Section 79712

Replace "agencies" with "contractors".

We note also that Jerry Meral, the former deputy secretary of the California Natural Resources Agency in charge of the Bay Delta Conservation Planning Program recently suggested language on behalf of the National Heritage Institute that explicitly allows for purchase of water with Water Bond funds.

Page 9, line 19, Section 79712

After the word "facilities" insert ", and the fifty (50) year ESA take permit secured through the BDCP."

Also add the following: "Funds provided by this division shall not be expended for 1) the mitigation of any of the impacts of the State Water Project or Central Valley Project, or 2) the cost of compliance of such projects with any regulatory requirements, including without limitation biological opinions, take permits, reasonable and prudent actions, and water quality standards, or 3) the cost to carry out the affirmative obligations of the projects to preserve and restore fish and wildlife, including without limitation achieving the CVPIA restoration of anadromous fish to ensure a sustainable natural production at levels not less than twice the average levels attained during the period of 1967-1991, or 4) the costs to ensure a San Joaquin Valley drainage solution, or 5) any costs related to the Bay Delta Conservation Plan (BDCP)."

Page 16, lines 29-31, Section 79732(e)

Delete lines 29-31.

Note: The specific settlements are set forth in Section 79734 and blanket funding of unspecified settlements is not in the public interest.

Page 17, line 19, Section 79732(n)

Add the following: "Funds provided by this chapter shall not be expended for 1) the mitigation of any of the impacts of the State Water Project or Central Valley Project, or 2) the cost of compliance of such projects with any regulatory requirements, including without limitation biological opinions, take permits, reasonable and prudent actions, and water quality standards, or 3) the cost to carry out the affirmative obligations of the projects to preserve and restore fish and wildlife, including without limitation achieving the CVPIA restoration of anadromous fish to ensure a sustainable natural production at levels not less than twice the average levels attained during the period of 1967-1991, or 4) the costs to ensure a San Joaquin Valley drainage solution, or 5) any costs related to the Bay Delta Conservation Plan (BDCP)."

Page 19, lines 11 and 12, Section 79741(c)

Include language from prior version regarding reduced future reliance on the Delta, consistent with the Delta Reform Act of 2009.

"Improve regional water self-reliance, including projects that reduce future reliance on the Delta watershed in meeting California's future water supply needs, consistent with Section 85021."

Page 26, line 20, Section 79750(a)(1)

Change "Four hundred million dollars (\$400,000,000)" to "Eight hundred million dollars (\$800,000,000)".

Note: Due to the vast amount of habitat already in place and anticipated from private projects, including the Delta Wetlands Project, there is less need for investment in ecosystem than there is for

maintaining and improving levees which are essential to protection of local habitat, agriculture, recreation, water quality and the export of water from the Delta.

Page 26, line 24, Section 79750(a)(2)

Change "Six hundred million dollars (\$600,000,000)" to "Two hundred million dollars (\$200,000,000)".

As discussed above, we submit that there is limited justification for conversion of agricultural lands to create additional habitat in the Delta. Moreover, the SWP and the CVP are already required to create significant acreages of habitat under the Biological Opinions, including 8,000 acres of intertidal and associated subtidal habitat in the Delta and Suisun Marsh to benefit longfin smelt. These Biological Opinions were recently upheld by the Ninth Circuit Court of Appeals, and the SWP/CVP are already moving forward with those projects. (See Exhibit I, showing map of planned habitat restoration projects already underway to meet the requirements of the Biological Opinion.)

Page 26, line 28, Section 79750(a)(2)

Add "and the Delta Protection Commission's Delta Investment Fund established under Public Resources Code, section 29778.5 . . ."

The Delta Investment Fund, established in 2009 and administered by the Delta Protection Commission is the vehicle to promote the sustainability of the Delta. (See Exhibit J, What is the Delta Investment Fund?) Without such funding, proposed section 79751, subdivision (c), cannot be adequately carried out.

Page 26, lines 29-31, Section 79750(a)(3)

Delete the entirety of (3).

Note: Specific allocation is necessary to avoid circumvention of the purpose and need. The levee programs require a net gain in habitat although such is incidental to the primary purpose of levee maintenance and improvement. The mix of the two objectives in the Delta is not cost effective.

Page 26, line 35, Section 79750(b)

Add "subject to the funding restrictions in Section 79712".

Page 27 after line 16, Section 79754

Add "(d) In the Delta as defined in 12220 the implementation of this section shall to the maximum extent possible seek to achieve the objectives through projects located in the channels, on the channel islands, on the former islands and areas which were in a flooded condition as of January 1, 2014, on lands owned in fee as of January 1, 2014 by State and Federal agencies, for habitat on those lands in public or nonprofit ownership for conservation purposes as of January 1, 2014, and for operation, maintenance and improvement of facilities at Brannan Andrus State Park and other existing state and local parks, for operation, maintenance and improvement of existing public and commercial boat launching, docking and service facilities, for improvements, policing and refuse clean-up of public access locations along existing public roadways and for the improvement and addition of camping areas as a part of existing public and commercial marinas. Project funding shall include

grants to public agencies sufficient to establish annuities or endowments to pay all future property taxes, local agency and local district assessments, fees and charges and other levies against the property had the property remained in private ownership. Title to lands and easements shall to the maximum extent possible remain with the landowner and/or a local agency with property management capability. Projects that propagate or include endangered or threatened species shall include adequate buffers and safe harbor or other protective measures to avoid interference with agricultural operations on both the subject land and neighboring lands. Adequate funding for such measures and for acquiring, managing and monitoring shall be included in the grant. Projects outside the scope of the above listing shall be limited to the funding of projects approved in advance by the Board of Supervisors of the county or counties in which the project is located."

Page 27, line 21, Section 79755(a)

Replace "for any of the following" with "as follows".

Page 27, line 22, Section 79755(a)(1)

Before "Local" insert the following: "Of the funds provided by this section, not less than two hundred million dollars (\$200,000,000) shall be committed to fund".

Page 27, line 24, Section 79755(a)(1)

Add "The commitment of funding and program shall extend for a period of years until the funding is exhausted."

Page 27, line 25, Section 79755(a)(2)

Before "Special" insert the following: "Of the funds provided by this section, not less than four hundred million dollars (\$400,000,000) shall be committed to fund".

Page 27, line 26, Section 79755(a)(2)

Add "The commitment of funding and program shall extend for a period of years until the funding is exhausted."

Page 27 after line 37, Section 79755

Add new section (d) as follows: "Funding for levee projects in the Delta as defined in 12220 shall seek to achieve a base level of protection for all levee systems at least equivalent to the PL 84-99 USACE standard for agricultural levees and for those levee systems most critical to protect infrastructure, water quality or water delivery a higher level of protection as deemed appropriate by the Department of Water Resources."

Page 30 after line 2, Section 79765

Add the following: "(c) Funds provided by this chapter shall not be expended for 1) the mitigation of any of the impacts of the State Water Project or Central Valley Project, or 2) the cost of compliance of such projects with any regulatory requirements, including without limitation biological opinions, take permits, reasonable and prudent actions, and water quality standards, or 3) the cost to carry out the affirmative obligations of the projects to preserve and restore fish and wildlife, including

without limitation achieving the CVPIA restoration of anadromous fish to ensure a sustainable natural production at levels not less than twice the average levels attained during the period of 1967-1991, or 4) the costs to ensure a San Joaquin Valley drainage solution, or 5) any costs related to the Bay Delta Conservation Plan (BDCP)."

* * *

Thank you for considering these comments. Please contact the undersigned to discuss any of the suggestions in this letter.

Yours very truly,

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Manager and Co-counsel CDWA

Barbara Barrigan-Parrilla

Restore the Delta

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Executive Director

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DJN:db Enclosures

cc:

Senator Lois Wolk

Jim Metropolous

Exhibit A

Implementation Costs and Funding Sources

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Table 8-35. Present Value of Capital Outlays by Plan implementation Phase and Element

	Average Ir	50-Year		
BDCP Plan implementation Elements	Near Term (Yrs 1–10)	Early Long- Term (Yrs 11–15)	Late Long- Term (Vrs 16-50)	Permit Term Total Expenditure (Millions)*
Water conveyance facilities (CM1)	\$1,225.8	\$0.0	\$0.0	\$12,258.9
Natural communities restoration and protection (CM2-CM11)	\$125.1	\$67.9	\$28.2	\$2,571.7
Other stressors (CM12- CM22)	\$12.9	\$16.7	\$7.4	\$471.2
Changed circumstances	\$0.7	51.2	\$1.7	\$72.4
Present Value of Capital Outlays	\$1,364.4	\$84.9	\$37.3	\$15,373.4

Notes:

The 50-year total expenditures are more precise than the annual averages and may not sum directly from the annual averages due to rounding error.

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3 Table 8-36. Present Value of O&M Outlays by Plan Implementation Phase and Element

_	Average Annual Expenditure by Fian Implementation Period (Millions) ²							
BDCP Plan Implementation Elements	Near Term (Yrs 1–10)	Early Long- Term (Yrs 11-15)	Late Long- Term (Yrs 16-50)	50-Year Permit Term Total Expenditure (Millions)"				
Water conveyance facilities (CM1)	\$0.0	\$17.1	\$14.6	\$595.2				
Natural communities restoration and protection (CM2-CM11)	\$1.0	\$2.0	\$2.2	\$96.3				
Other stressors (CM12- CM22)	\$25.9	\$26.5	\$14.0	\$682.0				
local government revenue replacement	\$1.4	\$2.1	\$2.1	\$96.2				
Monitoring and research measures	\$14.6	\$13.9	\$7.2	\$466.0				
Plan administration	\$5.7	\$5.2	\$2.7	\$177.0				
Present Value of Operating Outlays	\$48.5	\$66.7	\$42.7	\$2,312.8				

Notes:

The 50-year total expenditures are more precise than the annual averages and may not sum directly from the annual averages due to rounding error.

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^{*}Discounted to present value with 3% real discount rate.

Discounted to present value with 3% real discount rate.

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8.3 Funding Sources

8.3.1 Scope and Purpose of Funding Sources

This section identifies the potential sources that may be available to support the funding of the implementation actions identified in the previous sections. Consistent with the goals of the NCCPA and ESA, the BDCP has been designed to mitigate for the effects of the activities proposed in this Plan, provide for the conservation and management of threatened and endangered species in the Plan Area, help prevent species from becoming threatened or endangered, and improve ecosystem health. To achieve these important goals, the Plan will be funded by the Authorized Entities, which will include funding from public sources, through state and federal agencies, and other public funding sources. Funding will be provided by the participating state and federal water contractors for construction and operation of the new water facilities, as well as for mitigation necessary to address impacts to terrestrial and aquatic impacts associated with construction and operation. Funding from a variety of state and federal sources will be available for the actions in the conservation strategy. Initial state funding will largely come from a new water bond currently on the 2014 statewide ballot. Certain federal funding is expected to come from the same authorities that have been used in the past to support Delta restoration efforts. However, it is anticipated that additional federal legislation will be required to authorize the continued use of certain federal funds and to extend or broaden fund availability. Such legislation could also provide for new federal funding sources.

Every effort has been made to identify potential funding sources and make reasonable assumptions about the applicability of those funding sources to the BDCP so that all expected costs have been addressed. For instance, many of the state and federal funding sources have specific authorities that dictate the programs, projects, and in some cases geographic locations in which funds are allocated. Every effort has been made to assess these authorities and their applicability to the BDCP. Additionally, some funding sources have cost-sharing requirements; this chapter assumes that matching founds will be available. Cost-sharing requirements have been taken into account in the development of potential funding estimations. As referenced above, additional funding sources that have not been identified in this section may become available during the 50-year life of the BDCP.

It is important to note that this chapter is not a financing plan for the state or federal water contractors or any other party. Separate financing plans, funding agreements, legislative authority, and other documents will be needed to enable the use of certain funding sources. This chapter provides an overview of potential funding sources to support the implementation of the BDCP as well as the level of past financial support at the state and federal level for similar Delta activities.

8.3.2 Summary of Funding Sources

Table 8-37 provides a summary of all potential funding sources for the BDCP by entity, source, and Plan component. Each of these funding sources is described below, along with assumptions regarding applicability to the conservation measures (Table 8-38,

Table 8-39, and Table 8-49). Some funding sources are highly specific in the types of projects or activities that they fund, while others are more broadly defined. These limitations are important determinants of overall funding adequacy. Furthermore, some funding sources have a relatively short expected lifespan, while others may provide funding through the 50-year permit term.

Table 8-37. Summary of Estimated Funding by Entity, Sources, and Plan Component*

		Esämated	Funding by Plan C	im nil francçuoi	Hons \$)"			
Potenthii Funding Source	Program Administration	Monitoring, Research, Adaptive Management, and Remedial Measures	Water Foolities and Operation (CM2)	Flaturel Community Protection and Meangement (CMS, CM11)*	Natural Community Austoration (CM2, CM4– CM18, CM22, CM22)	Other Streams Conservation (CM13-CM21)	Tota!	%
Participating State and Federal Water Contractors	\$31	\$113	\$16,027	\$266	\$269	\$224	\$15,930	68.4%
State Funding Scorres							440,500	20143
New Water Bond (2014)	_	_	-	\$184	\$900	\$430	\$1.524	6.19
Second Water Boad	-	-	_	\$205	\$1,200	\$849	\$2,245	9.19
Proposition 1E			4	months of the last	\$100		\$100	0.4%
Proposition 84	=	290	-		\$42	\$21	\$63	D.396
Wildlife Conservation Round	-	-	_	\$10	\$40		\$50	0.25
Interagency Ecological Program (state funding)	-	\$55	77 77 77		1,40		\$55	
Delta Stewardship Council	2	590	-	-			\$90	0.25
Ecosystem Restoration Programs		-	204				247	to temperat
Sovirouments) Enhancement Fund		-	100	_			(46	0.0%
Palveries Restoration Grant Program!	-	_	_					0.0%
Subtotal State Ferading	-	\$145	_	5399	\$2,382	\$3,291	\$9,127	5.0%
ederal Francing Sources	<u> </u>			1,1033	- The Control	*1.271	275AZ7	16.6%
Disting and New Federal Authorizations				. Man				
Central Valley Project Ingernæment det Rustevntion Fund(Reclamation)	÷	22	2	\$50	*	\$50	şter (0.4%
A Bay-Delta Restoration Appropriations (Reclamation):	\$100	\$640		-	5662	\$1,027	\$2,369 9	C00
A Bay-Delta Restoration Appropriations [USPW3]	869	\$10	-	\$96	\$96	92,02,7	\$251	
A Bay Pelis Resistation Fund (EPA)	-	-	-	-345	\$238	2-2	\$238 1	
A Bay-Delta Restoration appropriations (1965)		\$175		_			\$175 (777
A Bay-Delta Restoración Appropriations (MRCS) (-	-		_	\$102		\$162.0	1000
A Bay-Delta Restriction Appropriations (NMPS)		\$15	144		777		\$15.0	A 1 404
legional Scosystem Conservation (MMS)	-				33	95		W 15 1
Smerry Restoration Act (NMFS)	* -		-		53	\$2	\$10 0 98 0	

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	Estimated Funding by Plan Component (in millions \$)*									
Program Administration	Monitoring, Research, Adaptive Management, and Remedial Measures	Water Facilities and Operation (CM1)	Natural Community Protection and Management (CM3, CM11) ^d	Natural Community Restoration (CM2, CM4– CM10, CM12, CM22)	Other Stressors Conservation (CN13-CM21)	Tot≋ì	. *			
							-			
	-		\$125	-	·	\$125	0.5%			
_	-	_	\$50 .	-			0.2%			
_	_	-	\$50	_			0.2%			
	-	-	\$25				0.195			
_	_	_		\$5	*		0.0%			
_	-	19	_		43	4				
_	-				40		9.0%			
\$160	\$840		\$396		\$1.097					
					42,001	49,323	14.370			
\$145	-				\$20	\$16E	0.724			
					440	\$103	0., 75			
\$336	\$1,098	\$16,027	\$1.061	\$3,613	\$2,623	\$24.758	106.004			
\$336	\$1,097									
\$0	\$1	\$0					0.0%			
	\$160 \$145 \$336 \$336	Program Administration	Program Adaptive Management, and Remedial Measures Mater Facilities Adaptive Management, and Remedial Measures Measu	Program Adaptive Management, and Remedial Measures Management (CM1) Protection and Management (CM2) Community Protection and Management (CM3) CM3, CM11 CM3	Program Adaptive Management, and Remedial Measures Measure	Program Administration	Program Adaptive Management, and Remedial Administration Measures Mater Facilities and Operation CM3, CM31) CM2, CM4- CM10, CM32, CM32 CM32-CM21) Total			

In most cases, funding amounts are estimates only based on funding history, overlap with BDCP goals, and assessment of competitiveness of BDCP projects. Where a range is provided in the text, the midpoint of the range is used for this table unless otherwise described. Funding estimates from state and federal agencies do not represent commitments and are subject to grant awards, annual appropriations from Congress, and passage of water bonds by the voters of California. Totals may not sum directly from components due to rounding error. See text for explanation of funding source, including legal citations for federal and state funding.

See text for rationale of funding estimate. Where funding sources apply to multiple Plan components, funding is allocated proportional to cost across applicable components, unless there is a basis to allocate funds differently. Allocations are estimates of potential funding and do not imply dedicated or guaranteed funding.

includes property tax revenue replacement for land acquired in fee title from private parties.

Funding may be provided from this source but it is not assumed due to the uncertainty in funding to support the BDCP.

See Table 8-55, Potential Funding from California Bay-Delia Restaration Appropriations, by Federal Agency and Plan Component, for details on funding. Excludes EIR/EIS mitigation costs.

1

1 Table 8-38. Potential Funding Source by Conservation Measure—Water Facilities and Operation, Yolo Sypass Enhancement, and Avoidance Measures

Potential Funding Sources*	CM1: Water Facilities and Operation	CM2: Yolo Bypass Fisheries Enhancement	CM22: Avoidance and Minimization Measures
Authorized Entity Funding			
DWR—revenue bonds	Х		X
State water contractors	X		Y
Central Valley Project Improvement Act Restoration Fund (Reclamation)	Хс		Y
California Bay-Delta Restoration appropriations—waterand related resources	* PARTIES VERBANDENERS ENGINEERS ENGINEERS PARTIES	X	The second section of the second
Federal water contractors	X	~ ~	Y -
Other State Funding Sources	· · · · · · · · · · · · · · · · · · ·		
Ecosystem Restoration Program (CDFW)	····		y
New Water Bonds			
Proposition 1E			· · · · ·
Proposition 84			<u>x</u>
Other Federal Funding Sources	X		
California Bay-Delta Restoration appropriations (all federal agencies)		X Y	Y
Estuary Restoration Act (NMFS)	- Ann	Х	
Restoration partnership grants; NMFS)		X	
investigations, energy, and water development appropriations (USACE)	λ	X	V
Other Funding Sources	X		X
Interest income	X	X	Y.
Notes:	X		

See text_f or rationale of funding availability. This table notes potential funding sources and does not imply dedicated or guaranteed funding.

Avoidance and minimization measures are applied to many conservation measures (including restoration) to avoid and minimize effects on the covered species. These measures would be incorporated into most of the projects conducted under other conservation measures, so would be funded by a wide range of sources.

Applicable for refuge water provided by Reclamation (not facility construction).

⁴ All federal agencies includes appropriations to Reclamation, USACE, NRCS, NMFS, USGS, USFWS, and EPA.

DWR = California Department of Water Resources; CDFW = California Department of Fish and Wildlife; NMFS = National Marine Fisheries Service; USFWS = U.S. Fish and Wildlife Service; USACE = U.S. Army Corps of Engineers; Reclamation = Bureau of Reclamation; NRCS = Natural Resources Conservation Service; USGS = U.S. Geological Survey; EPA = U.S. Environmental Protection Agency

Table 8-39. Potential Funding Source by Conservation Measure—Habitat Protection, Restoration, and Management

Potential Funding Sources* Authorized Entity Funding	CM3 Natural Communities Protection and Restoration	CM4: Tidal Natural Communities Restoration	CMS: Seasonally inundated Floodplain Restoration	CM6: Channel Margin Enhancement	CM7: Riparian Natural Community Restoration	CM8: Grassland Natural Community Restoration	CM9: Vernal Pool and Alkail Seasonal Wedand Complex Restoration	CM16: Nontidal Marsh Restoration	OM11: Natural Communities Enhancement and Management	CM12: Mathylmercury Wenasement
DWR—biological opinions for long-term coordinated operations of SWP		X							-	
State Funding Sources										X
New Water Ronds	X	Х	Х	X	X	Х	X '	¥	v	Х
Proposition 1E		,	X	X	X		- ×			· 4
Proposition 84	X	X	х	X	- X	$-\frac{x}{x}$	X	Ŷ	- 10 (. A
Wildlife Conservation Board	X	X	X	X	x					· 4.
Federal Funding Sources										
Central Valley Project Improvement Act Restoration Fund (Reclamation)	Х	Х	X	X	X	X	X	X		v
California Bay-Delta Restoration appropriations—water and related resources			- "	X	_ X	Y.			19 19 m ns	. X
California Ray-Delta Restoration appropriations (all federal agencies)	Х	X	X		X		·			X
Regional Ecosystem Conservation (NMPS)		_X	X	- X X	X					- 0-
Astuary Restoration Act (NMFS)		X	X	X	X				_	- 0
Wetlands Reserve Program (NRCS)	X	X	X	X	X		v -	γ -	- v	- A
Cooperative Endangered Species Conservation Fund (USPWS)	X	X	X-				- X -	V.	_^	
Environments Quality Incentives Program (NRCS)	X	X	X	X	X	- Y	X	Xr		I from employ yourself
Land and Water Conservation Fund	- x		74.74			*		Α.	4	
National Coastal Wetlands Conservation Grants (USFWS)	X	X	X	X ·	x v			×	X	-
Restoration Partnership Grants (NMPS)		a.	X	×	Ŷ			₾.	A	- 3
San Francisco Bay Area Water Quality Improvement Fund (EPA)	-	X X	X	X				X		X_
Other Funding Sources	1							^		
nterest income	Х	X	XX	X	x	X	v	- v		631
Indowment (post permit)		- "		-74	- ^	Δ	X	_ X	X _	_ X

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Notes:

See text for rationale of funding availability. This table notes potential funding sources and does not imply dedicated or guaranteed funding.

All federal agencies includes appropriations to Reclamation, USACE, NRCS, NMFS, USBWS, and EPA

Applicable to land acquisition that might be needed to support restoration.

DWR = California Department of Water Resources; CDFW = California Department of Fish and Wildlife; USFWS = U.S. Fish and Wildlife Service; NMFS = National Marine P isheries Service;

NRCS = Natural Resources Conservation Service; USGS = U.S. Geological Survey; EPA = U.S. Environmental Protection Agency

Table 8-40. Potential Funding Source by Conservation Measure—Other Aquatic Stressors

Potential Funding Sources"	Civil3: Invasive Aquetic S'egutation Control	7M14: Stockton Deep Water Skip Channel Dissolved Drygen Levels*	CM15: Localized Reduction of Predatory Fishes	Na16: Nonphyskai Fish Sarriers	IM17: Wegal Hervest Reduction	CMIR: Conservation datcheries	CM19: Urban Stormwater Freeiment	CM20: Recreational Users neasive Species Program	CM21: Nonproject Civersions
Authorized Pulity Funding		or the Manual Co.		N-W	- All and the same		- Jed jes		
Central Valley Project Improvement Act Restoration Fund (Reclamation)	X		X					X	X
CA Bay-DeltaRestoration appropriations—water and related resources State Funding Sources	Х		<u> </u>		X				
New Water Bonds Proposition 18	X	. X	X	Х	_ х	_ X_	_ X	_ X_	X
Proposition 84	χ.	X	~	-:			- <u>A</u>		-
Foderal Punding Sources			- 11 - 12 - 1				- 4		
CA Bay-DeltaRestoration appropriations (all federal agencies)	Х	X	X	Х	X	X	X	x	<u>x</u>
Regional Ecosystem Conservation (NMPS)	X		X	X			- 15		
Estuary Restoration Act (NMFS)	X		- X	X				pr	_X
Restoration Partnership Grants (NMFS)	~		- X	X				-	X
Other Funding Sources									
Interest _{inggas}	Х	X	X	Х	Х	Х	X	X	X
Notes:	1.00							An.	A

See texts or rationale of funding availability. This table; dentifies potentials unding sources and does not imply dedicated or guaranteed funding.

All federal agencies includes appropriations to Reclamation, USACE, NRCS, NMFS, USGS, USFWS, and EPA.

CDFW = California Department of Fish andw; kilife; NMFS = National Merine Fisheries Service; USACE = U.S. Army Corps of Engineers; NRCS = Natural Resources Conservation Service; USGS = U.S. Godingical Survey; USFWS = U.S. Fish and Wildlife Service; EPA = U.S. Environmental Protection Agency

All reaeral agencies includes appropriations to Kenamadon, USAGE, NKCS, NKPS, USGS, USFWS, and BPA.
Funding for the operation and maintenance of the Stockton Deep Water Ship Channel Aeration Facility is being provided through 2013 under a 3-year joint agreement with the Port of Stockton, San Josquin River Group Authority, the San Luis and Debts Mendota Water Authority, the San Josquin Valley Drainage Authority, and DWR.
This funding agreement has two option years (2014 and 2015) that may be exercised. Because of the limited term of this funding source, it is not included as part of the long-term funding strategy.

1 8.3.4.1.3 Supplemental Adaptive Management Fund

- The BDCP provides for the creation of a Supplemental Adaptive Management Fund, as described in
- 3 Chapter 3, Section 3.4.23, Supplemental Adaptive Management Fund. This fund, which will be at least
- .4 \$450 million, will be used to support adaptive management changes to CM1, as well as to any other
- 5 conservation measure, determined to be necessary during Plan implementation. Funding for the
- 6 Supplemental Adaptive Management Fund will be jointly provided by the Authorized Entities, the
- 7 State of California, and the United States. The components of the fund and the process by which it
- 8 would be made available to support changes to conservation measures through the adaptive
- 9 management process are described in Chapter 3, Section 3.4.23, Resources to Support Adaptive
- 10 Management

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8.3.4.2 Financing through Bonds

- 12 The state and federal water contractors could issue either general obligation or revenue bonds⁵⁶ to
- 13 finance the costs of CM1 Water Facilities and Operation. State and federal water contractors are
- 14 more likely to issue revenue bonds to finance their contribution to the BDCF because they can issue
- 15 them on their own rather than general obligation bonds that require voter approval. Additionally,
- 16 revenue bonds may be a preferable financing mechanism because they do not count towards the
- 17 authorized debt limit of the issuing entity. However, revenue bonds carry a higher interest rate than
- 18 a general obligation bond because they are backed only by the assets provided by project revenues.
- 19 Revenue bonds for the EDCP may be issued by a variety of sources. DWR may issue bonds for the
- 20 BDCP as it does to finance the construction of other SWP facilities, which would then be repaid by
- 21 participating SWP contractors. Individual water contractors may also issue their own revenue bonds
- 22 or they may do so collectively through a joint powers authority, such as the State and Federal
- 23 Contractors Water Agency (SFCWA). SFCWA is a Joint Powers Authority that was formed in 2009 by
- 24 state water contractors and member agencies of the San Luis & Delta-Mendota Water Authority.
- 25 SFCWA may be used as a funding vehicle for the BDCP, issuing revenue bonds on behalf of its
- 26 membership and backstopped by the participating members (water contractors).
- 27 If SFCWA issues revenue bonds, 70% of all SFCWA directors must approve of the project. In
- addition, the specific bonds must be approved by 70% of the directors who represent the
- 29 contractors who are participating members of the project. Given the economic benefits to water
- 30 contractors, described later in this section and in Section 8.3.4.4.1, Willingness to Provide Funding, it
- 31 is anticipated that most SWF contractors and members of the San Luis & Delta-Mendota Water
- 32 Authority would participate in the issuance of necessary revenue bonds.

8.3.4.2.1 Debt Financing

- One scenario under consideration to finance the BDCP costs identified for the state and federal
- 35 water contractors (Section 8.3.4.1, SWP and CVP Funding Responsibilities) is the issuance of a series
- 36 of four revenue bonds, each with a term of 40 years. The costs of CM1 would be financed with tax-
- 37 exempt, long-term debt. The four series are described below and in Table 8-43.
 - 1st bond series: fund first 2 years of construction.

⁵⁶ Only water contractors with property tax revenue are able to issue general obligation bonds. For example, Metropolitan Water District of Southern California issued a \$39.5 million general obligation bond in 2016. Revenue bonds are an available tool for all water contractors.

- 1 federal water contractors have not agreed on a specified allocation of costs for the BDCP. The exact
- 2 allocation of these costs between SWP and CVP contractors and within each group will be
- 3 determined near the time that permits are issued for the BDCP, and will take into account how BDCP
- 4 benefits are realized within the project, as well as existing SWP and CVP policies and procedures.

s 8.3.5 State Funding Sources

6 8.3.5.1 New Water Bonds

- 7 In 2009, the California State Legislature passed a comprehensive water package that included four
- 8 policy bills and a major water bond measure that is scheduled to be on the 2014 ballot. The measure
- 9 is known as the Safe, Clean, and Reliable Drinking Water Supply Act of 2014. Funds derived from the
- 10 issuance of such bonds would be used, in part, to satisfy the State's financial commitments to the
- 11 BDCP.
- The bond was originally slated to be on the 2010 ballot (as Proposition 18), then on the 2012 ballot,
- 13 but was postponed until 2014 because of the State's unprecedented economic recession. The bond
- 14 would provide \$11.14 billion for water supply reliability, surface and groundwater storage, Delta
- 15 resignation, water recycling, water conservation, watershed restoration, groundwater protection
- 16 and cleanup, and drought relief (Table 8-46). The Legislature is presently considering amendments
- 17 to the bond act.
- 18 The BDCP is expected to secure a large portion of the funds allocated to Delta sustainability, as well
- 19 as smaller portions of funds allocated to conservation and watershed protection. The water bond
- 20 will support the public benefits of Plan implementation, particularly natural community restoration
- 21 and other stressors conservation measures. For the purposes of the funding program and assuming
- the water bond passes, the BDCP is expected to receive the conservative estimate of funding in Table
- B-46. Based on the lifespan of similar recent water bonds, the 2014 water bond is expected to
- 24 disburse most or all of its funds within 10 years. For the purposes of this funding analysis, all of the

A-RA

25 funds relevant to the BDCP are assumed to be disbursed within a 10-year period.

1 Table 8-46. Estimated Funding for 2014 Water Bond Relevant to the BDCP (based on 2010 allocations)

Category Relevant to the BDCP (2010 Proposed Bond Section)	Total Funding Assumed (millions)	Proportion Assumed for the	Total Estimated for the BDCF (millions)
Delta Sustainability (79731)			<u></u>
Improvements in Delta cities and counties	\$750	13%	\$100
 Implement Bay Delta Conservation Plan 	\$1,500	80%	\$1,200
Subtotal: Delta Sustainability			\$1,300
Conservation and Watershed Protection			
Ecosystem and watershed protection (79750)	\$1,785	696	\$100
Coastal Conservancy (79750(a))	\$250	29%	\$50
Wildlife Conservation Board (79750(c))	\$215	1496	530
Farmland Conservancy and Watershed Coordinator grant programs (79756(j))	\$20	20%	\$4
Central Valley Project Improvement Act project that improves salmonid fish passage in Sacramento River (79760)	\$60	50%	\$30
Subtotal: Conservation and Watershed Protection		5070	\$214
Fotal Funding Estimated for the BDCF			\$1,514
Notes:			49.53.35.75

Source: Meral pers. comm.; Senate Bill 2, 2009-10 7th Ex. Sess. (CA 2009).

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BDCP assumes passage of a second water bond to fully fund the state portion of the Plan. The total BDCP funding assumed for the subsequent water bond is \$2.25 billion. The timing of any subsequent bond is unknown but would likely occur by year 15 of the permit term, providing funding for approximately 10 years after its passage.

8.3.5.1.1 History of Water Bonds in California

As shown in Table 8-47, 12 water bonds have been approved by California voters since 1960, a frequency of one every 4 years, on average. Based on this history, subsequent water bonds that would partially fund the BDCP are also likely to occur during the permit term.

^a Based on allocations for 2010 bond; amounts in 2014 or in a future year may be different.

Based on overlap of BDCP conservation measures with the purpose of the program and potential competitiveness of the BDCP with other projects in the geographic area of the program (some are local, others are statewide).

Table 4-4 Area (in Acres) of Natural Community Types in the Belta and Suisun Marsh

Maisurel and Agriculturel Community Types	Delta	Suinter Martin	Area of Overlap*	Total for Delta and Sulaun Marsh ac
Tidal open water	53.150	25.720	1.180	80.750
Tidal brackleh mereh	360	8,350	380	
Tidal freshvater mersh	6,980		-	8,330
Nontidal open water	10,520	30		8,980
Nontidal bracket: marsh, menegas	2.540	49,460	4 1000	10,550
Montidal fresheater marsh, unmanaged	3,260	10	1,880	50,183
Nontidal freehauter marsh, managed	14,300	10	10	3,20)
Alicali seasonal wotlands	5,470	170	_	14,300
Grusslands with vernel pools	8,930		100	5,53()
Riparian forest	8,880	1,150	10	19,980
Riparian acrub	7,080			8,980
Ropadan Investors	170	170	20	7,180
Gressland				170
Inland dune scrub	53,490	16,310	500	69,200
Agricultural lands	20		_	20
Alfaifa	60 ///0			
Inrigated pasture	82,410	100 E		62,410
Com	51,890			51,690
Rica	108,220		_	108,220
Vineyard	3,760			3,760
Orchand	28,850		-	28,850
Other cultivated crops	17,960	-	-	17.050
Other agricultura	114,940	-	-	114,543
ak wooden	69 750	2.640	120	72,400
and and and a	-	490	-	460
evaleped redafined	80,110	1,880	100	81,910
noance.	-	20	_	20
	736,950	1(16,820	4,320	235.203

Note: Numbers have been rounded to the research 10 screen.

DELTA 178,190 Acres

MARSH 101,380 Acres

[&]quot;The Design and Subset March grace searing. The coronge shows responds the extent of counterpring acrosses for each natural and applicational community type.

I The total represents the combined acreege of the Doke and Bulson March areas. The overlapping ecreage is counted only once.

The total day not exist the sum of the ecreages for including because of revealing.

Exhibit C

Title

THE CALIFORNIA WATER RESOURCES DEVELOPMENT BOND ACT

Year/Election 1968 general Proposition bond (leg)

type

Popular vote Yes: 3,008,328 (51.5%); No: 2,834,384 (48.5%)

Pass/Fall

Pass

Summary

This act provides for a band issue of one hillion, seven handred fifty million dollars (\$1,750,000,000) to be used by the Department of Water Resources for the development of the water resources of the State.

Far

Argument in Payor of California Water Resources Development Bond Act

Your vote on this measure will decide whether California will continue to prosper.

This Act, if approved, will launch the statewide water development program which will most present and future demands of all areas of California. The program will not be a besten on the taxpayer; no new white bases are involved; the bonds are repaid from project recenses, the migh the sale of water and passer, in other words, it will prohe itself. The bonds will be used over a period of many years and will involve an approximate segual expenditure averaging only \$75 million, as compared, for example with \$600 million a year we spend on highways.

Existing facilities for furnishing water for California's needs will soon be exhausted because of our rapid population growth and industrial and agricultural expansion. We now face a further critical loss in the Colorado River supply. Without the projects made possible by this Act, we face a major water crisis. We can stand no more delay.

If we full to not now to provide now sources of water, land development in the great San Joaquin Valley will slow to a half by 1965 and the mann of onlivered areas to wasteland will begin. In rousean California, the existing sources of water which have nearished its tremendous expension will reach especity by 1970 and further devalopment smust wholly coase. In northern California desperately needed flood cantrol and water aspplies for many local areas will be depied.

This Act will assure construction funds for new water development facilities to meet California's requirements now and in the future. No area will be deprived of water to meet the seeds of another. Nor will any area be ested to pay for water delivered to another.

To meet questions which concerned, southern California, the bonds will finance completion of all facilities needed, as described in the Act. Contracts for delivery of water may not be altered by the Legislature. The tap will be open, and no amount of political measurering can shut it off.

Under this Act the water rights of northern California will remain securely protected. In addition, sufficient money is provided for construction of local projects to meet the pressing needs for flood control recreation and water deliveries in the porth,

A much possired drainage system and water supply will be provided in the San Joaquin Valley:

Construction here authorized will provide thousands of jobs. And the program will nourish tremendous industrial and farm and urban expansion which will develop an ever-growing source of employment and economic prosperity for Californians.

Our Legislature has approprieted millions of dellars for work in preparation, and construction is now underway. It would be tragic if this impressive start toward solution of our water problems were now abandoned.

If we full to set now to leasure completion of this constructive program, serious existing water shortages will only get worse. The saucess of our State is at stake. You "Yes" for water for seople, for progress, for prosperity!

In addition to the Senate Committee Report, the contracting principles, and the MWD contract, there were political press releases, and analysis by the League of Women Voters, and reports by outside consultants which all indicated that contract payments would pay for the cost of the entire Project, and that local property taxes, in addition to user charges, were available if revenues from water sales were not exough to pay such cost.

Also Cransion, then Scate Charcoller, noted in a press release: "As additional security for the bands, and to prevent a drain on the General Pand in case of deficiency, the local contracting againsts will have advalorous texting power of an ad above the coar of water which the near will fay [4] Local agancies will therefore be able to meat their communicans to the State even if revenues from local cales, of water are not sufficient for this purpose. [4] Through this procedure, the hypoficients of the Water Plan become the financial keystone and support rather than the General Fund and the general tangange."

Covernor Pat Brown's press commess at the deep are also informative:

"Gevernor, what is your enswer to people who say. "I don't want to pay for somebody else's water." Like San Franciscum. "I have aboutly paid for one water project. Why should I be compelled to buy another?"

"Ouvernor History Well, they went to Explan most a completely off supporting The low provides show the contract trace of persons for the represented the constitute supp. Project. That's the field invover to it. Thinks where

"The League of Women Voters' analysis observed: "The state will contract with public agencias having the assassment power so they can meet the required payment to the state by the use of taxes as well as weter rates if they so desired in this way no area will be subsidizing water for another region."

"As the reprint of Chas, T. Mein, Inc., consultant to the Department of Water Resources, and: "Rates for yeaker and power and for other neinforable terms [1.4., diarges to the local agracical will be established so as to return to the State off costs of peoper repretion, retinenance and replacement, all principal and material on (r) bands, (2) especializes from the California Water Fand, and (5) other movies used in the construction of the project works. Since the water delivery, continues are proposed to extend as long as the bond repayment period, we consider that is outset to thill the above requirement revenues must be developed during this period sufficient return of such costs." (Final Report, "General Evanuescon of the Proposed Program for Pinancing and Constructing the State Water Resources: Development System of the State of California Department of Water Resources." (Oct. 1950) p. 2.)

Dillan Read's Co., fre., a second conside operalization the "financial aspects of the State's control projects." The Program control parties the control of the state of the Program will be manicipal corporations, water districts and similar public agencies with local texing power, and that, as suggested by the Dopartment, at least part or all of the agreeing may be recovered by these contractors through the lavy of some or assessments on real estate within their respective parisolations." (Roport of Phenoisal Consultants to State of California Water Researces, "Pinancial Aspects of Program for State Water Researces Development System." (Cat. 25, 1960) p. 24.)

An entable consulting from engaged to review the financial feasibility of the Stear Water Project examined each service mee's capacity to pay and concluded that virtually all contracting sites would have to rely in part upon taxes to pay the full each of the Project. In come much, the consultant even projected the anneant of feed taxes which would be required. For example, the report extension a need to 1950 for my rates of 15 cents per \$100 of assessed valuation in Venture Country, 21 cents in the Amelope-Mojave Vallay, 35 cents in the Constable Valley and Palon Springs eres, and 15 cents within the Mesopolitan Water District, including as a factor in its occupantions, the cost of level facilities. (Append. to Final Ecopert. "Occard Evaluation of the Projected Program for Financing and Constructing the State Water Resources Development System of the State of California, Department of Water Resources." (Oct. 1960) pp. 31-910

Exhibit E

DEPARTMENT OF WATER RESOURCES STATE OF CALIFORNIA

Bulletin No. 76

CALIFORNIA STATE LEGISLATURE REPORT TO THE

ON THE

DELTA WATER FACILITIES

AS AN INTEGRAL FEATURE OF

THE STATE WATER RESOURCES DEVELOPMENT SYSTEM

EDMUND C. BROWN



HARVEY O. BANKS

Director

December, 1960

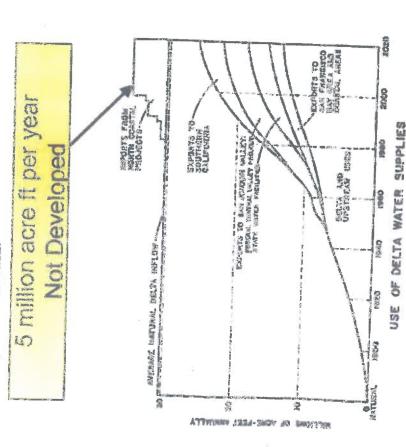
MANAGEMENT OF CLASSICATION

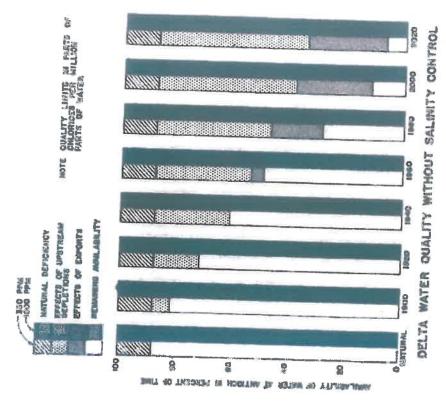
The development adding proposite a comparison of colorina should be defined as the control of the second state of the colorina should be second as the colorina should be supply forces that Where Frages which make the colorina should be supply forces that Where Frages which make the colorina should be supply to the colorina shoul

The arealization of project reconstitutions, therething the control of the contro

Militarian in lead arrive and militarian manual and arrive and arrived arr Hahii A. Wasan

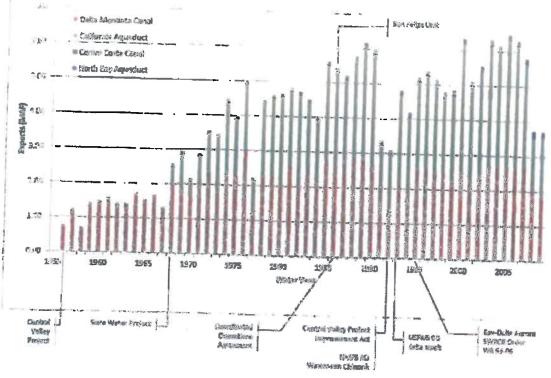
The netteral availability of good quality water in the Delta is directly related to the amount of surplus water which flows to the occan. The graph to the right indicates the historic and ord constaining less than 350 and 1,000 parts chlorides per million parts water, under long-term average mooff and uniform specific natural conditions, before any significant upstream water developments, there was a deficiency of water supplies within the specified quality limits. It is attricipated that, without salinity control the availability of water containing less than 1,000 ppm chlorides by about 60 percent, and that exports will have caused an additional 30 percent, and that exports will have caused an additional 30 percent reduction.

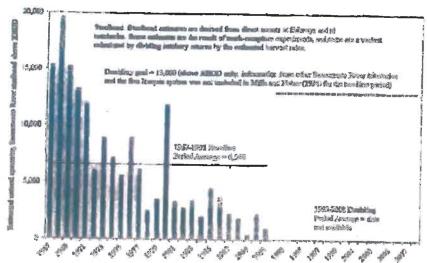


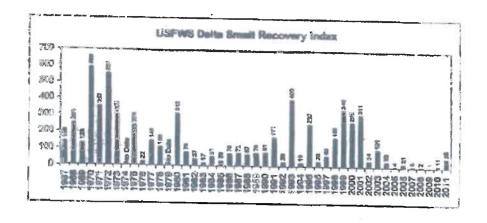


The magnitude of the past and anticipated future uses of water in areas cributary to the Delta, except the Tulate Lake Basin, the present in the diagram to the left. It may be noted that, while the present upstream use accounts for reduction of natural inflow to the Delta by almost 25 percent, upstream development during the next 60 years will deplete the inflow by an additional 20 percent. By that date about 22 percent of the natural water supply reaching the Delta will be exported to areas of deficiency by local, state, and federal projects. In addition, economical development of water supplies will incressing importation of about 5,000,000 acre-feet of water seasonally to the Delta from north coastal streams for transfer to areas of deficiency.

Exhibit F







the Delta and Marsh in the absence of the CVP and SWP), 63 under by Fish and Game and endersed by the Department, and vers exten-The extremia in the draft agreement were recommended The Scriped Base Index would be 71 teder wirbout project condiis a measure of young base survivel through their first summer (1. s., theoretical condicions which would extat today in the flahery standards provide significantly higher The Striped Bass Index under this dealslon. Based on our most the existing basin plans, and about 793/ procedulen than existing basin plans. enalysed by the Sound staff. B. 深级特别等国际的 CHEST CONTRACT. sively Trons.

前の円の付職 which would not While the standards in this decision approach without project impacts on all flabery species now would respin the virthus orber to program full mariganicon levels of proceetion for striped base, there are namy such as white catfish, shad and salmon, shureing down of the project export plants. the protection as about Maries. specters,

leval of protection until final determinations are made concerntention provided under this decision is nonetheless a ressonabl to mitthaten The lavel of pretransfer factitty or other means cross-Dalea project impacts There is some indication that factors other than those con-aidered in the Beard's analysis of without project levels have also affect striped base survival. The affects of these factors are much that the without project levels would be greater than 71. However, the magnitude of this impact is unknown and cannot be quantified at this the.

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NO SHUT DOWN INSTEAD INCREASED EXPORT

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Summary Template For BDCP Financing Committee Action Items

Action Item: Use of Habitat Funds to Provide Outflow

This issue may be integrated into the decision-tree if the result of the State/federal meetings is a decision tree with insufficient yield to support the project. Even if it does not become part of the decision-tree it should remain in the axis of tools that can be essed through the adaptive management program. Under this idea bond funds originally targeted toward liability restoration could be reprogrammed for capital outlay programs such as purchase of water rights, fallowing programs, development of coordinated groundwater conjunctive use programs, and other water management techniques which would provide outflow needed for fish.

Issue Leader: Brynt Walshall

Summary: This financing idea was to allow public funding for habitat to be reprogrammed for use in buying water for species protection. It has the enhanced value for the species of providing more benefits then would have been provided by habitat purchases, and also serves to reduce the perceived need for flow criteria that lack sufficient scientific support (e.g. Spring, Summer, Fall X2).

The following language is included in the 2014 band act. The Finance Committee agreed that this language is clear enough to allow funds made available under this paragraph to be used for water purchases for species protection.

"in one billion five hundred million soliars (61,568,600,000) for projects to project and enhance the nuclaismosisty of the belta acception, including may of the following:

(1) Projects for the development and implementation of the Bay Delta Conservation Flag, consistent with Chapter 13 (conservation with Section 2022) of Division 3 of the Fiel and Game Code. The projects chait be implemented through a cooperative effort among regulatory systemes, regulated and potentially regulated entities, and affected parties, including siste and federal water contractors. These famous may be expected to: the preparation of environmental decumentation and environmental compilation.

(I) Other projects to protect and restore native fish and wildlife dependent on the Beltz ecompates, including the sequisition of eater rights and the removal or reduction of underivable invaries species."

Most Steps:

1. This financing idea requires the passage of the 2014 water bond

Prior to passage of the 2014 water bend the BDCP and the DHCCP should be written
to specifically allow for water purchases to be substituted for habitat purchases I the
BDCP adaptive management plan indicates that is ecologically preferable.
 The BDCP costs chapters should be written to acknowledge the potential use of
bond funding for habitat or water purchases.

See Attachment below

Water for Habitat

As part of the BDCP conservation measures, 30,000 acres of aquatic habitat will be developed in the next 15 years. The benefits of this habitat development for priege species like Delta and Longfin Smelt will be determined through careful monitoring and research.

If aquatic fabitat development does not make sufficient progress in actioning the BDCP biological goals and objectives, funds that are projected to be used for additional development of aquatic habitat may be used for other actions that would be a surrogate for habitat. For example, if additional seasonal outflow is readed, the funds could be used for acquisition of water for outflow. Outflow (maintenance of salinity at various locations through release of water from upstream reservoirs) may be another way to achieve biological goals and objectives, subject to scientific analysis to be conducted in the upcoming wars. The funds may also be used for other conservation purposes which could reduce diversions to ordinate the mais and objectives.

The costs of developing the 30,000 acres of aquatic habitat will be covered in part by future bond funds, and in part by funds provided by water agencies pursuant to OCAP obligations. If no additional tidal manth habitats are developed after the start of operation of CM3, around 53 billion would still be available to develop water for outflow purposes from future bond runds.

The amount of water that may be needed for additional outflow has not been determined, but it could be as much as 1.6 mail on an annual average basis. ICF has estimated that the actual difference on an annual average basis could be much lower, assuming that what is needed to satisfy the fishery agency outflow requirements would be about 700 tall per year (exports at a level of 5.2 mail/yr), and the original proposed project (5.9 mail/yr).

Funds could be used in a number of ways to produce an average of 700 tal of additional outflow. Purchase Water From Upstream Entitles

Writer purchases, both short and long-term, are an important component of the water contractor's supplicionals water programs. A key consideration for supporting a water purchase programs for Peltohabitat requirements will be whether those programs compare with existing or planned supplicmental water transfer supplies.

Water Rights Purchase Lease: All or a portion of the \$3.0 billion would be used to purchase water from voluntary softers. This option would include the purchase of lands with the appropriate water rights in wither the Delta or the sacramento Valley where the water supply could be re-managed for outflow or in-Delta habitat benefits. While transfers from the Sacramento Valley would most likely create the prentest amount of water, brancker, from the San Josquin Valley small also need to be investigated. This method has the polential to interfere with long-term transfers being contemplated by SWP or CVP south of Delta contractors, which could impact the availability and pricing of supplemental water supplier, needed by the water contractors to meet hydrologic or regulatory shortages. In this instance thir program could impact the water contractors. Additionally, there could be negative impacts in the areas from where land and water rights are being purchased. These impacts may have to be mitigated. Annual Iterator Market, Market transfers include obtaining fallowing oppositency, creating conjunctive use agreements, or changing the time of year for rice calibrate, release. These are generally considered annual transfers because costs are regulated annually and are highly variable, subject to coolected commodity or input values, especially in rice merkets, which have traditionally supported a majority of the fallessing transfer grog ands. The cost of confunctive use were lies historically tracked with following process with a alight discount and are, therefore, also subject to annual peroducions. The memorangement of rice toffwater is correctly being explained by the water contractors as an additional

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tool to meet hydrologic or regulatory chartages. To use bond funds, these agreements would have to be long term, even though price may have to negotiated on no enough basis.

Fallowing and conjunctive use transfers are tools that the SWP/CVP contractors currently use on a regular basis to meet annual water shortages. Therefore, additional competition for a finited supplemental supply (estimated at 200-300 tal per year) would impact the water confractors. Develop New Storage

Several storage projects have been considered that include expanding existing reservoir systems or diversoping new off-stream storage facilities. New storage could be used to capture water during high flow periods for use later to enhance Delta cutflow. Potential projects fall within two general concepts South of Delta storage and Upstream of Delta Storage.

Shuth of Delta Storage: Develop new or expand existing storage capability within the CVP/SWP place of use. The ability in improve the water supply associated with an isolated facility is greatly affected by the temporal delivery pattern. Expanding the capability to capture water when it is available will improve water supply. For example, analyses have been done to consider the benefits of expanded storage or unlimited demand. These analyses show that as much as 500 laf of additional water supply could be provided with additional flexibility downstream. Additional storage south or the CVP/SWP export facilities gould include:

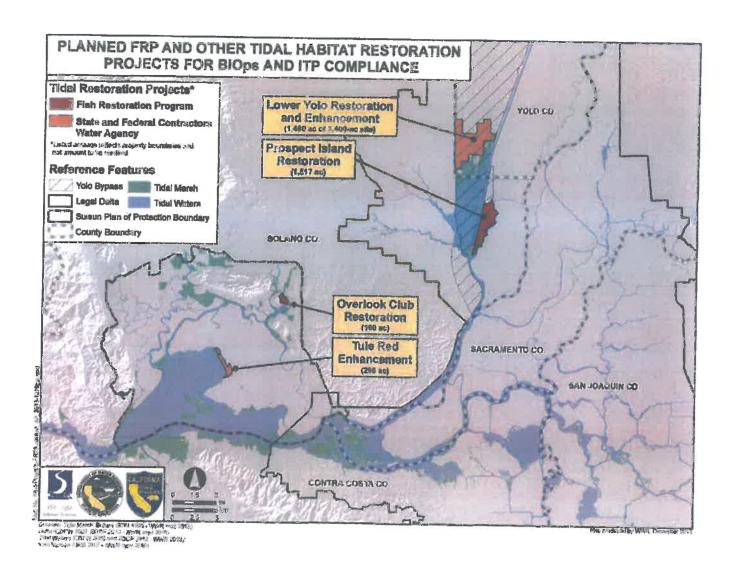
- Expand San Luis Reservoir
- Develop new off-stream storage south of the Delta
 - Los Banos Grando 1.73 to 2.04 mai (Called 1997)
 - Oresbanba -- 0.38 to 1.14 mai (Called 1997)

if the BOCF develops new storage or expands existing storage south of the Delta, such projects would so longer be available for south-of-Delta contractors to develop as part of their own water management propriems. Therefore, this option is considered non-neutral to the SWP/CVF contractors because each project will compate with the exports to develop similar projects that would allow them to fully utilize wet year flow that could be captured in the Delta through a new conveyance facility and used in dries or restricted years.

Upstream of Delta Storage: Develop new or expand existing storage capability unstream of the Delta. Additional upstream storage could be used to devotop a water supply during wet years to meet additional outflow requirements in other years.

- Dovelop new on stream storage upstream of the Delta
 - Example: Temperance Flat Reservoir = 0.7 to 1.3 MAF at a construction cost of \$2.9 to \$4.0 billion.
- Develop new off-stream storage upstream of the Delta
 - Example: Sites Reservoir 1.2 to 1.8 MAP at a cast of \$3.6 to \$3.9 billion. The proposed facility includes the "public benefits" objectives of ecosystem improvements in the form of supplemental flows for the Delta, water quality, and water temperature. The project estimates that roughly 6(6) saf of ecosystem storage will be available and roughly 200 saf of ecosystem flows will be developed associate.
- Shasta Expansion 6.5 to 18.5 foot rake (256 to 634 fall storage) at a construction cost of \$0.6 to \$1.1 billion). Recent feasibility studies identified the primary plumping objectives as 1) increase anadromous fish survival and 2) increase water supply reliability. The straject has identified a water supply benefit of between 76 to 133 tar annually with improved cold water pool management.

New or assumed storage north of the Delta that includes dedicated storage for ecosystem benefits are considered neutral to the water contractor.





What is the

Delta Investment Fund?

The Delta Investment Fund was originally proposed in 2008 by the Governor's Delta Vision's Blue Ribbon Task Force. That recommendation was adopted in the Delta Reform Act of 2009, which

- established the coequal goals of water supply reliability and Delta ecosystem restoration "in a manner that protects and enhances the unique cultural, recreational, natural resource, and agricultural values of the Delta as an evolving place" (Water Code section 85054)
- AND established the Dalta Investment Fund, to be administered by the Delta Protection Commission (Public Resources Code, section 29778.5).



What does it do?

Delta Investment Fund would fund projects that advance regional economic sustainability and enhance Delta communities. The 2012 Economic Sustainability Plan for the Delta recommends the following priorities:

- Infrastructure improvements
- Gap funding for catalytic development projects
- Economic development assistance
- Marketing/branding efforts

Where's the money?

No funds have yet been allocated to the Delta Investment Fund. It is authorized to receive funds from federal, state, local, and private sources. Various water bonds being proposed may provide an opportunity for the State to invest in capital improvements to Delta infrastructure.

How would DPC administer funds?

DPC would develop guidelines and processes for allocation of public funds in a fair and transparent manner. Stakeholders would be encouraged to participate in development of associated programs in order to focus funding on efforts that would have the maximum positive impact on Delta regional economic sustainability.

When funded, what kind of projects would be eligible?

Depending on the source of available funding, the Delta Investment Fund might support:

- Enhancement of Delta agriculture, such as local, value-added processing of Delta crops
- Recreation and tourism development, including park facilities, agri-tourism, "Gateways" for Delta visitors
- Branding and marketing efforts
- Local community economic development planning
- Grants or low-interest loans to allow private enterprise upgrades or development, such as improvements for agricultural direct-sales, or marina improvements
- Local government participation in Deltawide regulatory process streamlining and regional economic development activities



If general obligation bond funds are available, projects would typically be "capital improvement" projects, such as:

- Educational facilities improvements
- Emergency preparedness and response facilities
- Expansion and improvement of Port facilities, as well as roads, bridges, trails, and signage
- Building improvements, including historic and recreational facilities, as well as
- Seismic & life-safety building improvements, and modernization of aging infrastructures

For more information about the Delta Protection Act, the Delta Reform Act, or the Delta Investment
Fund. see the Public Resources Code section 29778.5 below, or
contact DPC



Public Resources Code, section 29778.5: The Delta Investment Fund is hereby created in the State Treasury. Any funds within the Delta Investment Fund shall be available, upon appropriation by the Legislature, to the commission for the implementation of the regional economic sustainability plan, developed pursuant to Section 29759, for the purposes of enhancing Delta communities. The Delta Investment Fund may receive funds from federal, state, local, and private sources. (Added by Stats. 2009, 7th Ex. Sess., Ch. 5, Sec. 35. Effective February 3, 2010.)

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