Chapter 4 Federal and State Agency Comments

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This section contains copies of the comment letters received from federal and state government agencies, listed in Table 4-1. Each letter is followed by responses to the comments presented in that letter. Responses to comments are numbered individually in sequence, corresponding to the numbering assigned to comments in each comment letter. The responses are prepared in answer to the full text of the original comment.

Code	Agency/Organization	Name
Federal		
EPA	U.S. Environmental Protection Agency	Duane James, Manager, Environmental Review Office
DAC	Congress of the United States, House of Representatives	Dennis A. Cardoza, 18 th District, California
State		
CSCL	California State Council of Laborers	Jose Mejia, Director
CVRWQCB	Central Valley Regional Water Quality Control Board	Kenneth Landau, Acting Executive Officer
DBW	Department of Boating and Waterways	David L. Johnson, Deputy Director
DC	Department of Conservation	Dennis O'Bryant, Acting Assistant Director
DFG	Department of Fish and Game	Banky Curtis, Deputy Director, Habitat Conservation Division
DPC	Delta Protection Commission	Linda Fiak, Executive Director
DSOD	Department of Water Resources, Division of Safety of Dams	David A. Gutierrez, Chief
КМС	Assembly, California Legislature	Kevin McCarthy, Assembly Republican Leader, Thirty-Second District
MM	California State Senate	Michael Machado, Senator, 5 th District
SLC	State Lands Commission, Division of Environmental Planning and Management	Stephen L. Jenkins, Assistant Chief
SWRCB	State Water Resources Control Board	Gita Kapahi, Chief Bay-Delta/Special Projects Unit

Table 4-1. Federal and State Agency Comments Received on the SDIP Draft EIS/EIR

Comment Letter EPA

UNITED STATES ENVIR	RONMENTAL PROTECTION AGENCY
The And Contraction 75	REGION IX
San Fra	ncisco, CA 94105-3901
Fe	ebruary 22, 2006
Mr. Paul Marshall	FFR 2 4 2000
California Department of Water Reso Bay Delta Office	
1416 Ninth Street	000218
Sacramento, CA 95814	
Subject: Draft Environmental Ir Improvements Program (CEQ# 20050462)	npact Statement (DEIS) for South Delta n, Sacramento-San Joaquin Bay Delta, California
Dear Mr. Marshall:	*
The U.S. Environmental Prote referenced document pursuant to the N Council on Environmental Quality (C Section 309 of the Clean Air Act. Our EPA-specific extension to the comme 21, 2006 granted by you and Ms. Shan (telephone conversation with between 2006).	ction Agency (EPA) has reviewed the above- National Environmental Policy Act (NEPA), EQ) regulations (40 CFR Parts 1500-1508) and comments are provided in accordance with the nt deadline date from February 7, 2006 to February ron McHale, Reclamation Program Manager, Laura Fujii and Sharon McHale, January 26,
The South Delta Improvement issues concerning the health of the lar supply for millions of Californians. In Bureau of Reclamation (Reclamation) Department of Water Resources (DW approach to decision-making for the S making process. Stage 1 decisions wil of the project, and Stage 2 will address the permitted pumping capacity beyon limit.	is Program (SDIP) raises a number of important gest estuary on the West Coast as well as the water a developing a response to these issues, the U.S.), as the federal lead agency, and the California R), as the state lead agency, have taken a creative SDIP. The lead agencies propose a staged decision- ll involve only the physical/structural components is the operational components necessary to increase and the current 6,680 cubic feet per second (cfs)
EPA supports this staged decis to make critical decisions about Stage shed light on the pelagic organism deconsistent with NEPA, especially give supplemental NEPA/CEQA document before any decisions are made about S followed the same staged process, and EPA will provide formal comments and	sion-making because it offers the best opportunity 2 operational issues after scientific evaluations cline in the Delta. We believe this approach is en the lead agencies' commitment to develop tation, with appropriate public review processes, Stage 2. Given this NEPA commitment, EPA has d is evaluating and rating only Stage 1 of the DEIS. nd rating of Stage 2 after the supplemental
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000218 FEB 2 4 2006 document and preferred alternative for Stage 2 are issued. Given that much of the analysis in this Stage 1 DEIS is applicable to the Stage 2 decision, EPA has provided initial comments on the analysis, so that the lead agencies can address concerns in advance of the Stage 2 NEPA document. Based on our review, we have rated the proposed Stage 1 physical/structural component as Environmental Concerns - Insufficient Information (EC-2). A Summary of EPA Rating Definitions is enclosed. EPA supports the effort to address water quality, fishery, and water supply reliability issues in the south Delta. However, the Stage 1 DEIS EPA-1 does not analyze the effects of Stage 1 on implementation of Total Maximum Daily Load measures to improve dissolved oxygen, mercury accumulation, and salt/boron, significant water quality issues within the south Delta. We recommend establishment of a comprehensive water quality monitoring and assessment program, which is a Delta Improvements Package commitment. We are also concerned with the unspecified point in EPA-2 time for implementation of interim operations. We recommend increases in export pumping, proposed in interim operations, not be initiated until the Stage 2 decision is complete. EAP-3 EPA appreciates the opportunity to review this Stage 1 DEIS. We are available to discuss our Detailed Comments. When the Stage 1 FEIS is released for public review, please send two copies to the address above (mail code: CED-2). If you have questions, please contact me at 415-972-3988, or Laura Fujii, the lead reviewer for this project. Laura can be reached at 415-972-3852 or fujii.laura@epa.gov. Sincerely, Duane James, Manager Environmental Review Office Communities and Ecosystems Division Enclosures: Summary of EPA Rating Definitions **Detailed** Comments Sharon McHale, Bureau of Reclamation cc: Les Grober, Central Valley Regional Water Quality Control Board Dave Harlow, US Fish and Wildlife Service Michael Aceituno, NOAA-Fisheries 2

<section-header> Description Fig 24 200 g 0 0 0 2 1 D-Lose of Description The Description of Description Description of Description of Description Description of Description Description of Description Description Description of Description De</section-header>	U.S. Environmental Protection Agency Rating Draft Environmental Impact Stateme Definitions and Follow-Up Action	g system for nts *
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* From EPA Manual 1640 Policy and Procedures for the Review of Federal Actions Impacting the Environment. February, 1987.	* From EPA <u>Manual 1640 Policy and Procedures for the Review of Federal Action</u> 1987.	ons Impacting the Environment. February,

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EFL	CPA DETAILED COMMENTS ON THE DRAFT ENVIRONMENTAL IMPACT STATEMENT FOR SOUTH DELTA IMPROVEMENTS PROGRAM, SACRAMENTO-SAN JOAQUIN BAY DELTA, CA., FEBRUARY 22, 2006	
<u>(</u>	Comments on Stage 1 Physical/Structural Component	
N C P	<u>Water Quality Analysis</u> <u>Evaluate effect on methyl mercury production and mercury concentration.</u> Delta vaterways and the lower San Joaquin River are listed as impaired for "mercury." The Central Valley Regional Water Quality Control Board (Central Valley RWQCB) is preparing a Total Maximum Daily Load (TMDL) for mercury in the Delta. A recently	
r qls p	eleased staff report (August 2005) discusses habitat, water management, and water juality conditions which can contribute to bioavailability of mercury and exposure at evels affecting human health and biota. This information is relevant for conditions in the South Delta Improvements Program (SDIP) project area and potential effects of the project.	
	Recommendation:	
	The Stage 1 Final EIS (Stage 1 FEIS) should provide information on mercury levels in the Delta. Evaluate the potential effects of SDIP on bioavailability of mercury, mercury exposure levels, and implementation of the mercury TMDL. The analysis should be consistent with the recommendations of the Central Valley RWQCB. Mitigation measures should be provided to address adverse conditions such as an increase in bioavailability of mercury that may be caused by SDIP.	EP
Lof (aniFCIC	Evaluate effect on dissolved oxygen. The Stage 1 Draft EIS (Stage 1 DEIS) information on dissolved oxygen (DO) and its related TMDL is incomplete and outdated. Objectives for DO are minimum levels to protect fish. The State Water Resources Control Board SWRCB) has approved the DO TMDL for the Stockton Deep Water Ship Channel as an mendment to the Basin Plan. This TMDL cites flow, channel geometry (which affects natural aeration processes), and oxygen demanding substances as contributing to the DO mpairment. The Stage 1 DEIS also omits information on DO impairment in the Middle River and Old River (between the San Joaquin River and Delta Mendota Canal). For both of these rivers, the 303(d) listing identifies "hydrologic modification" as the cause of the DO impairment. SDIP Stage 1 operations could affect flow, channel geometry, and oxygen demanding substances and DO conditions in south Delta channels.	
	Recommendation: The Stage 1 FEIS should evaluate the effect of Stage 1 operations on DO impairment in the Middle River, Old River, Stockton Deep Water Ship Channel and other south Delta channels. Potential effects on implementation of TMDL requirements for dissolved oxygen should be described and mitigated.	EPA
l s f	Evaluate effect on implementation of the TMDL for salt and boron. Salt loading of source water is a key water supply issue. Under the salt/boron TMDL to meet objectives for the lower San Joaquin River at Vernalis, the Bureau of Reclamation (Reclamation) is responsible for mitigating the impacts of the salt load associated with its Delta Mendota	

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Canal supply water. According to the TMDL, this can be done through dilution flows which increase assimilative capacity, or other mitigation measures. SDIP increases in Central Valley Project (CVP) deliveries to the San Joaquin Basin could influence salt loading and implementation of the salt/boron TMDL.	
Recommendation: The Stage 1 FEIS should document the salt/boron TMDL requirements and Reclamation obligation to mitigate salt loads. Evaluate the effect of Stage 1 SDIP deliveries on San Joaquin River and Basin salt loading. Stage 2 National Environmental Policy Act (NEPA) documentation should fully evaluate the impacts of increased deliveries on salt loadings and implementation of the salt/boron TMDL.	EPA-6
<i>Establish a comprehensive water quality monitoring and assessment program.</i> Water quality modeling is based on monthly time steps making it difficult to accurately evaluate adverse effects on fish which may not survive a monthly average. For instance, the Stage 1 DEIS used a monthly average concentration of 10% below the DO objective (p. 5.3-24) to define "significant" impact. However, the DO objective is strictly a minimum of 5.0 milligrams/liter (mg/l)—not a monthly average. Thus, the proposed criteria for significant impact for the DO objective may not be appropriate.	
The NEPA document should state that modeling indicates a potential for violation of water quality objectives and recognize the need for water quality monitoring and response to avoid violations. We note that water quality monitoring and response was a commitment made in the Delta Improvements Package Agreement which included the SDIP.	EPA-7
Recommendations: The Stage 1 FEIS should evaluate and propose the establishment of a comprehensive water quality monitoring, assessment, and response program. We recommend this monitoring program include measures to capture biological and water quality information for our collective efforts to improve fisheries and water quality. The Vernalis Adaptive Management Plan (VAMP) on the San Joaquin River included such an approach and is yielding useful information, even though this long-term experiment has not yet been completed.	
Reclamation and Department of Water Resources (DWR) should consult with the Central Valley RWQCB and SWRCB regarding water quality analysis and monitoring for both Stage 1 and Stage 2 of the SDIP.	EPA-8
Interim Operations State the point in time for implementation of interim operations. The Stage 2 operational component description includes implementation of "an interim operations regime" pending full execution of Stage 2 operations (p. 2-2). The text is unclear regarding when "interim operations" would begin. It is our understanding that an increase to 8,500 cfs pumping levels will not occur during Stage 1, as initially considered in the	EPA-9
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<text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text>	Comments on Stage 2 Operational Component
Stace 2 Operational Scenarios. EPA, with other state and federal CALFED agencies, endorsed in the CALFED ROD, the concept of using the 8,500 cubic feet per second (cfs) pumping capacity to provide operational flexibility to meet project water supply and water quality goals (CALFED ROD, e. 49). Support of the increased pumping regime was explicitly conditioned "upon avoiding adverse impacts to fishery protection and in-Delta water supply reliability." Further, the CALFED ROD called for the development and implementation of a plan to meet all existing water quality standards for which the CVP and SWP have responsibility before the end of 2002 (CALFED ROD, EPA believes that the framework put in place by the CALFED ROD (and subsequently endorsed in state and federal legislation) is still a valid approach to the question of using the 8,500 cfs pumping capacity. In sum, the CALFED ROD suggests that CVP and SWP can move to higher pumping capacity only if the issues of fisheries impacts, water quality standards compliance, and in-Delta water supply reliability are satisfactorily addressed. ¹ With this framework in mind, EPA has the following comments on the analyses contained in the SDIP Stage 1 DEIS. Explain the rationale for the operational scenarios. The Stage 1 DEIS does not provide the rationale for the operational scenarios sublancing fisheries, water quality, and water supply are likely to be based. Recommendations: The Stage 1 FEIS should clarify the key objectives and decision factors distinguishing scenarios. Describe the intended environmental protection differences they objectives and decision factors distinguishing scenarios should be fully discussed, clearly delineating the rationale, environmental protection measures, Key objectives and decision factors distinguishing scenarios should be fully discussed, clearly delineating the rationale, environmental prote	FEB 2 4 2006
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Scena montl highe this is surviv densii Asses	The current proposed scenarios rio B is presumably more fish pr ly pumping rate at a maximum of diversions" (Stage 1 DEIS Tabl especially inappropriate for Delta al, the Delta Smelt Working Gro ies as an operational trigger (Del sment Matrix").	have significant limitations. otective by holding the Decer of 6,680 cfs "except when fisl e 2-3). If "fish densities" refe ta Smelt. Due to the precarior up has recommended avoid ta Smelt Working Group "De	For example, mber 1 to June 20 h densities allow ers to salvage density, usness of Delta Smelt ng reliance on fish elta Smelt Risk	
qualit Head the Co trade-	In another example, the Stage I v and fisheries protection when r of Old River Barrier (HORB) is ntral Delta (p. 5.3-27) when HO offs have not been discussed.	DEIS describes the trade-of outing supply water through open, versus drawing more so RB is closed. Ways of resolv	Is between water Old River when the upply water through ing or reducing these	EPA-
	Pacommandations.			
	The Stage 1 FEIS should addree and, in general, describe how the range of alternatives.	ss the potential for other open he scenarios in the Stage 1 D	rational scenarios, EIS provide a full	
	The Stage 2 analysis and accom- operational scenarios. Other op- water quality/fisheries objectiv and SWP pumping. The Stage proposed operational scenarios with respect to SDIP purposes.	npanying NEPA document sh erational rules may reduce of es trade-offs that may result f 2 NEPA document should dis represent a full, reasonable r	hould consider other r mitigate impacts and from increased CVP scuss in detail how the range of alternatives	
Evalu Acco DEIS sumn page are no NEP/	ate effect on the Environmental int (EWA) is treated differently i For instance, Scenario B provid er period while Scenarios A and of 6). The reasons for these diff t explained. Altering features of -evaluated program would be in	Water Account. The Enviro n various operational scenari es 1,820 cfs of dedicated con C provide 500 cfs during this ferences, and implications for the EWA outside the bounds appropriate.	nmental Water ios in the Stage 1 iveyance in the s period (Table 5.1-1, r EWA effectiveness, s of the adopted and	
	Recommendations: The Stage 1 FEIS should evalu The Stage 1 FEIS should expla operations variables and the ad reasons for different operationa effectiveness. Explain whether to mitigate for planned pumpin	ate, in general, the effects of in the relationship between the opted short-term EWA progral components and their impli- the "size" of EWA assets is g increases.	SDIP on the EWA. he EWA-related am. Describe the ications for EWA considered sufficient	EPA-15
	The Stage 2 NEPA document s operational changes on the EW to mitigate for proposed pump	should provide a detailed ana A, its effectiveness, and the ing increases.	lysis of effects of ability of EWA assets	EPA-16

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 Describe water quality effects of Stage 2. As stated above, different operational scenari could have various effects on the ability to implement TMDLs and meet water quality standards. The consequences of these water quality impacts for ecosystem restoration at drinking water objectives, and protection of other beneficial uses, is of concern. Recommendation: The various Stage 2 operational scenarios may have different effects on the abilit to meet water quality standards, TMDLs, and desired conditions in the Delta. These different effects should be analyzed and disclosed in the Stage 2 NEPA document. Evaluate effects on salt loading in the San Joaquin Basin and Tulare Basin. The Stage 1 DEIS does not address the impacts of changes in the quantity and quality of CVP supply water in the San Joaquin Basin contribute significant loads of salt, exacerbating salinit management problems in the Basin. Under the adopted TMDL and Basin Plan Amendment for salinity and boron, Reclamation is responsible for helping to mitigate o reduce salt loads within areas draining to the San Joaquin River—notably, major portions of the San Luis Unit and SWP Tulare Basin service areas—can be affected by changes in project deliveries. Recommendation: The Stage 1 FEIS should evaluate, in general, the effects of operational changes on salt loading in the San Joaquin Basin and Tulare Basin. Include information of planned salinity control and flow measures and potential mitigation measures. The Stage 1 NEPA document should provide a detailed analysis of the effects on perational ascenarios on the quantity and quality of CVP and SWP water supply deliveries and associated effects on salt loading throughout the south Delta, San Joaquin River Basin, and Tulare Basin. Recommendations: The Stage 1 Net Subject. The Trinity County Su	s	FEB 2 4 2006 000218
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 Evaluate effects on the Trinity River. The Trinity County Supervisors and Planning Department have expressed concerns regarding the potential effect of operational chang on Trinity River flows, reduction of long-term Trinity River exports, and restoration of Trinity River fisheries and habitat. The Trinity River is a key component of the CVP. Trinity River operations and constraints could influence the effectiveness of the SDIP. Recommendations: The Stage 1 FEIS should describe the concerns of Trinity County Supervisors ar other interested parties and discuss potential measures that could address their concerns. We recommend the Stage 2 NEPA document fully address operational concerns raised in comments on this Stage 1 DEIS. 	EPA-19	The Stage 2 NEPA document should provide a detailed analysis of the effects of operational scenarios on the quantity and quality of CVP and SWP water supply deliveries and associated effects on salt loading throughout the south Delta, San Joaquin River Basin, and Tulare Basin.
Recommendations: The Stage 1 FEIS should describe the concerns of Trinity County Supervisors ar other interested parties and discuss potential measures that could address their concerns. We recommend the Stage 2 NEPA document fully address operational concerns raised in comments on this Stage 1 DEIS.	*5	Evaluate effects on the Trinity River. The Trinity County Supervisors and Planning Department have expressed concerns regarding the potential effect of operational changes on Trinity River flows, reduction of long-term Trinity River exports, and restoration of Trinity River fisheries and habitat. The Trinity River is a key component of the CVP. Trinity River operations and constraints could influence the effectiveness of the SDIP.
We recommend the Stage 2 NEPA document fully address operational concerns raised in comments on this Stage 1 DEIS.	d EPA-20	Recommendations: The Stage 1 FEIS should describe the concerns of Trinity County Supervisors and other interested parties and discuss potential measures that could address their concerns.
	EPA-21	We recommend the Stage 2 NEPA document fully address operational concerns raised in comments on this Stage 1 DEIS.
6		6



December 2006

			FEB 2 4 2006	0002	18
	Recommendation: We recommend providing in the St	age 1 FFIS and	Stage 2 NEPA doc	ument	
	simplified graphs and tables that high	ghlight key effe	ects and information	. For	EPA-24
	instance, simulated data for monthly	y range of reser	rvoir storage and riv	ver flows	
	(e.g., Figures 5.1-2 to 5.1-4) could the and maximum data rather than data	be displayed wi	ith only the minimu	m, average	
	and maximum data rather than data	for an percent.	nes.		
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10 t					

Responses to Comments

EPA-1

This general topic is covered in EPA-4, EPA-5, and EPA-6.

EPA-2

This general topic is covered in EPA-7 and EPA-8.

EPA-3

This general topic is covered in EPA-9.

EPA-4

Stage 1 of the SDIP will not have any effect on implementation of TMDL measures to reduce the accumulation of total or methyl-mercury in the Delta, because the project does not change or influence the sources of total mercury, nor does it change the processing of methyl-mercury that may occur within the Delta channels.

EPA-5

Stage 1 of the SDIP will have some possible effects on the implementation of TMDL measures to improve DO in the Stockton DWSC, as described in Section 5.3 of the SDIP Draft EIS/EIR. The general effects of San Joaquin River flow, which may be increased by operation of the fish control gate at the head of Old River, were evaluated. Impact WQ-13 discussion identifies beneficial effects of the SDIP on DO in the DWSC. Changes in the tidal flows (i.e., increased tidal flushing) in Old and Middle Rivers likely will have beneficial effects on the short periods of low DO that have been observed in these channels.

EPA-6

Please see Master Response Q, *Effects of the South Delta Improvements Program on San Joaquin River Flow and Salinity.*

EPA-7

DWR and Reclamation, co-signers of the DIP, have committed to establish a comprehensive water quality monitoring and assessment program as part of the DIP. This program is already largely underway as part of the D-1641 monitoring requirements and IEP ecological survey programs.

EPA-8

DWR and Reclamation have specific responsibilities under D-1641 and the more general IEP monitoring efforts both to participate in water quality monitoring and to provide assessment of conditions. Very specific requirements are associated with the salinity monitoring throughout the Delta. SDIP will not change these monitoring and assessment efforts.

Each of the permits Reclamation and DWR receive from the State and Regional Water Boards comes with monitoring and reporting requirements. Project proponents commit to these monitoring efforts and to consult with these Boards on the overall monitoring programs.

EPA-9

Please see Master Response M, Interim Operations.

EPA-10

Project applicants have the option of paying a fee to the San Joaquin Valley Air Pollution Control District to offset increases in emissions. The District uses those fees to purchase emission offsets. The price of those fees varies from year to year, with the current price approximately \$15,000 per ton of oxides of nitrogen (NO_X). Adequate offsets are available as shown in following air district web page:

<http://www.valleyair.org/busind/pto/erc/rptAnnualCreditByRegion.pdf>.

EPA-11

Please see Master Response Q, *Effects of the South Delta Improvements Program on San Joaquin River Flow and Salinity.*

EPA-12

The three operational alternatives for Stage 2 were developed within the relatively narrow range of potential changes in CVP and SWP pumping, with a revised 8,500 cfs CCF diversion limit. This process of selection includes the 8,500 stakeholder process ending in fall 2002, and is fully described in Appendix A of the Draft EIS/EIR, "SDIP Alternatives Development and Screening."

EPA-13

Please see Master Response B, *Relationship between the South Delta Improvements Program and the Pelagic Organism Decline.*

EPA-14

Please see Master Response O, Gate Operations Review Team.

EPA-15 and EPA-16

Please see Master Response E, *Reliance on Expanded Environmental Water Account Actions for Fish Entrainment Reduction.*

EPA-17

The effects of each SDIP Stage 2 operational scenario on the San Joaquin River salt and boron TMDL are expected to be positive because the CVP Delta-Mendota Canal salinity will be reduced and can be further evaluated in the subsequent CEQA/NEPA document. All D-1641 EC objectives will be maintained for each scenario. Changes in other water quality variables are not expected to be substantial; no differences between the Stage 2 operational scenarios are likely to be identified.

EPA-18 and EPA-19

Please see Master Response Q, *Effects of the South Delta Improvements Program on San Joaquin River Flow and Salinity.*

EPA-20 and EPA-21

Please see Master Response N, Trinity River Operations.

EPA-22

Please see Master Response E, *Reliance on Expanded Environmental Water Account Actions for Fish Entrainment Reduction.*

EPA-23

Reclamation and DWR submitted a formal CWA application for an Individual Permit to the U.S Army Corps of Engineers, Sacramento District Regulatory Branch earlier in 2006 for the SDIP Stage 1 actions. A CWA permit is required because the constructing the fish and flow control gates and conducting conveyance and spot dredging will result in placing fill in the waters of the United States. Reclamation and DWR are currently in the process of completing the 404(b)(1) alternatives analysis on the SDIP Stage 1 actions. The 404(b)(1) analysis will be submitted to the Corps as part of the ongoing CWA permitting process. The 404(b)(1) analysis was not circulated with the SDIP EIS/EIR. The 404(b)(1) analysis includes a comprehensive evaluation of alternatives, including the alternatives evaluated in the SDIP EIS/EIR.

Alternatives 1, 2, and 3 of the CALFED Bay Delta Programmatic EIS/EIR, included the head of Old River flow control gate and the Middle River, Grant Line Canal, and Old River flow control gates.

EPA-24

The recommendation to use simplified graphics where possible is noted. The graphics in SDIP Draft EIS/EIR Sections 5.1, Water Supply, 5.2, Delta Hydraulics, 5.3, Water Quality, and 6.1, Fish, are designed to balance a simple presentation of the key effects with the need to provide complete information from the CALSIM and DSM2 model results. DWR and Reclamation will continue to look for ways to improve the presentation of model results during Stage 2 evaluations.

Comment Letter DAC

DENNIS A, CARDOZA 18th District, California	DAC	WASHINGT	SIVC Qui (- 200 ON OFFICE: = OFFICE BULLONG
COMMITTEE ON AGRICULTURE Subcommerce on Department Operations Oversigner, Numming and Forestry Subcommerce on Livestock and Monticulture COMMITTEE ON RESOURCES Subcommittee on	Congress of the United States House of Representatives Mashington, DC 20515–0518	(202) 22 DISTRICT 2222 M Stree Menced, (209) 38 1321 I Stree Monesto,	OFFICES: CA 95340 3-4455 ET, SUITE 1 CA 95354
SUBCOMMITTEE ON INTERNATIONAL TEMOTIES SUBCOMMITTEE ON INTERNATIONAL RELATION SUBCOMMITTEE ON INTERNATIONAL TEMOTIES AND NONPOLIEDATION SUBCOMMITTEE ON THE MODULE EAST AND CENTRAL AS	February 7, 2006	(209) 5: 137 EAST WE STOCKTON, (800) 35	27-1914 CA 95202 6-6424
Mr. Lester Snow Director, Departme P.O. Box 942836 Sacramento, CA 94 Dear Director Snow	ent of Water Resources 4236-0001 v,	- local be	
Department's prop of California receiv Delta. Given the ir manage the Delta's long been recogniz component of the C authorized by the C The South Delta In utilize and integrat improve our state's Bay-Delta ecosyste	osed South Delta Improvements Program. As you know yes its water from the San Francisco Bay/Sacramento-Sa mportance of this resource, it is crucial that we develop water delivery system. The South Delta Improvements ed as a key step in better managing the Delta. This prog CALFED Framework Agreement, Record of Decision ar Congress in 2004. Mprovements Program is a responsible and balanced plar e our existing water management infrastructure in the D water supply reliability, water quality and the overall h m, and will benefit the Westside. The program will cor	w, two-thirds an Joaquin ways to better s Program has gram is a major nd legislation n to better elta. It will ealth of the istruct seasonal	DAC-1
tidal gates to protect select Delta channel increases to the Stat Currently, the state infrastructure to ma cannot fully or resp in the average amo provide the flexibil when it is environm resources. Specific same time, by prov system of pumps, f	et fish and improve water circulation and quality in the I els to improve water deliveries for local farmers, and alle te Water Project deliveries. is constrained in its ability to use surplus water supplies ove the water, but until SDIP is approved, the state's wa is consibly use the existing system. SDIP calls for only a 2 unt of water pumped from the Delta. More significantly ity to shift the timing of water deliveries when surplus i ientally safe. SDIP will help protect important Delta en cally, it will help protect fish species in the Delta channe iding the state greater flexibility in how and when SDIP ish are granted greater protections.	Delta, dredge ow modest s. We have the ter managers 3-5% increase 4, SDIP will s available and twironmental els. At the operates its	
~			

Federal and State Agency Comments

Water is the lifeblood of California - critical to our families, farms, and businesses. It is our responsibility to use this precious resource as wisely as possible through all possible best management practices, including water conservation, recycling and storage, to DAC-1 ensure California's water future. State and federal agencies must take a responsible, cont'd balanced approach to addressing our water resource needs that considers all of California's diverse, often competing, interests. SDIP is a key element in such a balanced approach. Sincerely, Dennis Cardoza Member of Congress

Response to Comment

DAC-1

The commenter's description of the project's benefits and support for the project are noted.

Comment Letter CSCL



DEC 2 2 2005 000 24 SDIP is a responsible and balanced plan to better utilize and integrate our existing water management infrastructure in the Delta. Collectively, it will improve our state's water supply reliability, water quality and the overall health of the Bay-Delta ecosystem. The program will construct seasonal tidal gates to protect fish, and improve water circulation and quality in the Delta, dredge select Delta channels to improve water deliveries for local farmers, and allow State Water Project deliveries to increase modestly.	
Currently, the state is constrained in its ability to use surplus water supplies. We have the infrastructure to move the water, but until SDIP is approved, the state's water managers cannot fully or responsibly use the existing system. SDIP calls for only a 3-5% increase in the average amount of water pumped from the Delta. More significantly, SDIP will provide the flexibility to shift the timing of water deliveries when surplus is available and when environmentally safe to do so. SDIP is an ideal option for California to advance – it will not require building a new project or the construction of major new infrastructure. And, funding for the program has already been secured through passage of voter approved bonds in 2000 (Proposition 13).	csci
Importantly, SDIP will help protect important Delta environmental resources. Specifically, it will help protect fish species in the Delta channels. At the same time, by providing the state greater flexibility in how and when SDIP operates its system of pumps, fish are granted greater protections.	
Given all these points, SDIP is supported by a statewide, broad coalition of water, agriculture, business, planning organizations, and local government officials including the Association of California Water Agencies, State Water Contractors, California Chamber of Commerce, California Business Properties Association and the Western Growers Association.	
Water is the lifeblood of California – critical to our families, farms, and businesses. It is our responsibility to use this precious resource wisely through all possible best management practices, including water conservation, recycling and storage, to ensure California's water future. It is imperative that we have a more flexible water delivery system so that we can continue to accommodate growth in our population and economy while relying on existing water supplies.	
Again, we strongly support SDIP and encourage all key stakeholders to help advance this critically needed project.	
Thank you.	
Sincerely,	
Jose Mejia	
Director, California State Council of Laborers Legislative Department	
2	

DEC 2 2 2005 cc (<i>by facsimile</i>): Hon. Governor Arnold Schwarzenegger, (916) 445-4633 Mr. Mike Chrisman, Secretary, California Resources Agency, (916) 653-8102 Mr. Joe Grindstaff, Director, California Bay-Delta Authority, (916) 445-7297 Mr. Dan Skopec, Deputy Cabinet Secretary, Office of the Governor, (916) 324 Mr. Terry Tamminen, Cabinet Secretary, Office of the Governor, (916) 324-63 Ms. Fiona Hutton, California's Water Future, (818)784-1222	00024 -6358 858	
O:/SnowltrDeptofResources.12122005		
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Responses to Comments

CSCL-1

The commenter's description of the project's benefits and support for the project are noted.

Comment Letter CVRWQCB

S Ca	(lifornia Regional Water Quality Control Boa Central Valley Region	rd
Alan C. Lloyd, Ph.D.	Robert Schneider, Chair	Arnold
Agency Secretary	Sacramento Main Office 11020 Sun Center Drive #200, Rancho Cordova, California 95670-6114 Phone (916) 464-3291 + FAX (916) 464-4645 http://www.waterboards.ca.gov/centralvalley	Schwarzenegger Governor
7 February 20	006	
	Feb 07, 2006	00140
Mr. Paul Mar	shall P. Commants	
State of Calif	ornia Department of Water Resources, Bay Delta Office	
1416 Ninth S	treet	
Sacramento,	CA 95814	
SUBJECT:	COMMENTS ON THE DRAFT ENVIRONMENTAL IMPACT STATE: ENVIRONMENTAL IMPACT REPORT (EIS/EIR) FOR THE SOUTH IMPROVEMENTS PROGRAM (SDIP)	MENT / DELTA
Thank you fo are provided impairments (CWA) Secti State Water I	or the opportunity to submit the following comments on the subject document. Or regarding the potential impacts of the SDIP on dissolved oxygen (DO) and mere in the Sacramento-San Joaquin Delta (Delta), and issues related to the Clean Wa on 401 Water Quality Certification that will eventually be required for this proje Resources Control Board (State Water Board).	Comments cury ater Act ect from the
DISSOLVEI	D OXYGEN BACKGROUND	
Several water CWA Section Control Boar the proposed operations, he and the Stock and Disappoi	r bodies within the boundaries of the Delta have been included on the State Wat a 303(d) list as impaired due to low DO conditions. Central Valley Regional With d (Central Valley Water Board) staff believes the physical and operational comp SDIP, along with existing State Water Project (SWP) and Central Valley Project ave the potential to impact three of these impaired water bodies: Old River, Mid ton Deep Water Ship Channel (DWSC) portion of the San Joaquin River betwe ntment Slough.	er Board's ater Quality ponents of rt (CVP) dle River, en Stockton
In January 20 Plan for the S Contributing Control Prog minor modifi DWSC as a m existing and f the DWSC, th Control Prog through the E parties involv in the DWSC guidance, and	005, the Central Valley Water Board adopted Amendments to the Water Quality Sacramento River and San Joaquin River Basins for the Control Program for Fa to the Dissolved Oxygen Impairment in the Stockton Deep Water Ship Channel ram). In November 2005, the State Water Board approved the DO Control Prog cations. The DO Control Program identifies reduced San Joaquin River flow the najor contributor to the DO impairment. It also recommends to agencies respon future water resources facilities, which impact or have the potential to impact flow hat they evaluate and reduce their impacts on the DO impairment in the DWSC. ram identifies the SDIP as a water resources project with the potential to impact DWSC. Also, the State Water Board in Water Right Decision D-1641 encourage red in constructing and operating the barriers to consider the effects of the barrier. In accordance with Central Valley Water Board and State Water Board regula d the requirements of the California Environmental Quality Act (CEQA) and the	Control actors (DO gram with rough the sible for ow through The DO flow ed the ers on DO tory National
	California Environmental Destantion Assess	
	Caujornia Environmental Protection Agency	

Paul M	Marshall	- 2 -	7 February 2006	
Enviro condit	onmental Policy Act (NE) ions in the DWSC are rec	PA), an evaluation and mitigation of the imp quired.	pacts of the SDIP on DO	
In 200 DO im Board mitiga bodies	2 the State Water Board a pairments on Old River a has not yet developed co te the potential impacts o s.	adopted a revised 303(d) list of impaired wa and Middle River within the Delta. Althoug ntrol programs for these impairments, the E of the physical and operational components of	ter bodies. This list included gh the Central Valley Water IS/EIR must evaluate and of the SDIP on these water	CV CB
Centra Water Contro 2003 r beginn Autho aimed Centra of the CBDA the pro comm	I Valley Water Board sta Resources (DWR) and U ol Program and the SDIP regarding some concerns- ning in December 2003, C rity (CBDA) sponsored I at developing the details il Valley Water Board sta proposed activities on the A in November 2003, at th popsed DIP actions. Man- ents below.	If has had numerous written and verbal inter U.S. Bureau of Reclamation staff during the p EIS/EIR. For reference, enclosed is a letter we had with the administrative draft of the S Central Valley Water Board staff participate integrated Water Operations Forum & Frame of the Delta Improvements Package (DIP), iff participated in these meetings to provide to DO impairments in the Delta. For referen- te initiation of the IWOFF discussions, outling by of the same concerns expressed in both the	ractions with Department of preparation of the DO sent to DWR in October SDIP EIS/EIR. Also d in California Bay Delta ework (IWOFF) discussions of which the SDIP is a part. input on the potential impacts ce, enclosed is a letter sent to ining our concerns regarding nese letters appear again in the	
DISSO	DLVED OXYGEN COM	MMENTS		
Comm The fo a) b) c) d)	nent #DO1 - References ollowing omissions in the There is no mention in O impairments in Old and existing Delta exports a There is no mention of t Water Quality Variable. In Chapter 5.3, Assessm 5.3-15, it should be clar Central Valley Water B References to applicable 1641 should be included and Regulatory Framew	to Relevant Regulations Omitted SDIP EIS/EIR should be addressed: Chapter 5.3, <i>Delta Water Quality Issues</i> , Pag Middle Rivers, and DWSC, nor the ongoing nd the proposed operational alternatives on the DO impairments in Old and Middle Rivers s, Page 5.3-14 to 15. <i>Lent Methods</i> , at the end of the third bullet to iffed that the DO Control Program has been oard and the State Water Board. e sections of both the DO Control Program a d in Chapter 8 <i>Compliance with Applicable I</i> <i>work</i> .	ge 5.3-6 of the DO g and potential impacts of the these impairments. ers in Chapter 5.3, <i>Delta</i> oward the bottom of the page formally adopted by both the and Water Right Decision <i>Laws, Policies, and Plans</i>	CV CB
Comn In Cha the ba a) b)	nent #DO2 - Significance upter 5.3 (page 5.3-21) the seline value exceeds the r In the case of DO, it sho are <u>below</u> the <u>minimum</u> By definition when a wa list (as is the case for DO	e Criteria e EIR/EIS states, "No change [of a water qu maximum objective." ould be clarified that no change should be al objective. ater body is listed as impaired on the State V O in the DWSC, Old and Middle Rivers) ba	uality variable] is allowed if lowed if the baseline values Water Board's CWA 303(d) seline values already violate	CV B-4

		- 3 -	7 February 2006	
Comment #D The following of the SDIP E a) The B no allo the EI therefo a signi b) Apply above baselin c) The D object potent the EI	O3 – Applicable Criter comments apply to the of IS/EIR (pgs. 5.3-23 to 24 usin Plan DO objective a wance in the Basin Plan R/EIS. Any reduction of ore, should be considered ficant impact. ing the general significant , no change to the DO va to value already violates O objective applicable at ve needs to be established al impacts of the propos R/EIS. No such criteria of	ia for Dissolved Oxygen discussion of the DO criteria/obje 4). pplicable to the DWSC applies a for a 10% cushion of monthly av the monthly estimated DO conce a violation of the applicable obj nee criteria on page 5.3-21 (and a ariable should be allowed by the the objective. t all times and places in Old and the ed as a criterion in this section of ed projects against this criteria neo or analysis is currently provided i	ectives contained in Chapter 5.3 t all times and places. There is verage violations as proposed in entration below the objective, ectives and should be considered ddressed in Comment #DO2 proposed project when the Middle Rivers is 5.0 mg/L. This the EIR/EIS, and analysis of the eed to be provided elsewhere in in the EIR/EIS.	CVI B-5
Comment #D As proposed i data is a reaso impairment. The flow vs. I that DO is 6.0 inspection of	O4 - Methods for Asses n EIS/EIR Chapter 5.3 (p nable approach to evalua OO model proposed in th mg/L when flow is 1500 he data, nor is the conclu	ssing Impacts on Dissolved Oxy pgs. 5.3-18), using flow vs. DO c ating the impact of activities that e SDIP EIR/EIS, however, is ser 0 cubic feet per second (cfs) is no usion that DO is 3.0 mg/L when f	gen urves developed from existing reduce DWSC flow on the DO iously flawed. The conclusion t supported by even a visual low is 0 cfs. A statistically valid	CVI B-6
Also, the flow part of 2005, v	vs. DO data presented in which includes periods o build be used.	n this chapter is for 1983 to 2001 f particularly low DO conditions	. Data exists through 2004 and in the DWSC. All the most	
Comment #D The EIR/EIS i of less than 1, this to the Tot Valley Water document stat 6.0 mg/L Basi flow. At flows	O5 – Incorrect Representates in Chapter 5.3, Alt 500 cfs are assumed to h al Daily Maximum Load Board, 2003). This is an es "[f]or net daily flow a in Plan DO objectives. Bu- below 1,000 cfs, about h is same words were also u to time has the Contral S.	entation of Central Valley Wate ernative 2A, Stage 1, Impact WQ lave an effect on the DWSC DO c for Low Dissolved Oxygen in the incorrect citation and must be re- above 3,000 cfs, there were no via elow 3,000 cfs, the DO concentral half of the daily minimum DO con- used in the February 2005 final st Valley Water Board stated or endo	er Board Report 2-13, Page 5.3-33 "[o]nly flows oncentrations" and attributes a San Joaquin River (Central emoved or modified. The cited olations of either the 5.0 or the tions decrease with decreasing exentrations were below 5.0 aff report for the DO Control prsed 1,500 cfs as a flow rate that	CV

Paul Marshall	- 4 -	7 February 2006	
Comment #DO6 - Balancing C Chapter 5.3 (pg. 5.3-27) of the E maximum benefits from the tidal benefits of operating the head of DO conditions in the DWSC) ag of larval and juvenile fish into th toward the Contra Costa Water 1	Operational Considerations EIR/EIS describes the "three major gate l gate operations". Item 2 on this page f Old River fish control gate to increase gainst the potentially negative impact of he CVP and SWP pumps and the shiftin District and SWP Banks facilities.	e operation choices to provide describes the need to weigh the flow past Stockton (improving f such operation on entrainment ng of San Joaquin River salinity	CVF B-8
The balancing of competing pos one beneficial use at the expense uses must be provided. To the e River is reduced below what wo implemented, by one means or a	itive and negative impacts is understand e of another is unacceptable. Mitigation extent that the flow split to the San Joaq buld occur naturally at that point, mitiga mother, at the same time those impacts	dable, but choosing to protect n of impacts for all beneficial uin River at the head of Old tion measures must be occur.	
The DO Control Program sugge Water Board as a means of mitig of Old River fish control gates n impacts in the Delta, alternate m associated flow reduction in the be acceptable to the Central Val need to be demonstrated.	sts that alternate measures may be cons gating the impact of activities that reduc nust be opened to prevent fish entrainm neasures (e.g. aeration) may provide an San Joaquin River past Stockton. Befo ley Water Board, however, the effective	idered by the Central Valley ce flow in the DWSC. If the head nent and undesirable salinity acceptable mitigation for the ore such alternate measures would eness of such measures would	
It is understood that DWR is init project at Rough and Ready Isla efficacy and the extent to which	tiating the construction and operation of nd in the DWSC. This project should p aeration can be used to improve DO co	f a demonstration aeration provide useful information on the onditions in the DWSC.	
Comment #DO7 - Cumulative Title 14. California Code of Reg cumulative impact from several	Impacts gulations, Chapter 3 (CEQA Guidelines) projects as:) at Section 15355 defines the	
" the change in the env added to other closely re projects. Cumulative imp projects taking place ove	vironment which results from the increme vlated past, present, and reasonably for vacts can result from individually minov er a period of time."	nental impact of the project when eseeable probable future r but collectively significant	
The SDIP EIS/EIR only evaluate conditions. These baseline cond	es the incremental impacts of the SDIP litions (i.e. Alternative 1 - No Action) a	over and above baseline assume:	
"[a]ll of the temporar River, Grant Line Canal, and removed annually.	y rock barriers (head of Old River fish o , and Old River flow control barriers) w	control barrier, and Middle would continue to be installed	
The purpose of these ongoing te quality and quantity impacts of t cumulative impact requirements the existing 6,680 cfs pumping c mitigated. Furthermore, as the t	mporary barrier operations, among othe the current SWP pumping capacity of 6, of CEQA, the cumulative impact of the capacity (a closely related past project) temporary barriers were intended to pro-	er things, is to mitigate the water ,680 cfs. According to the e proposed SDIP components and must therefore be evaluated and vide mitigation for the impacts of	CI

the existing pumping capacity, existing 6,680 cfs pumping cap	the permanent barriers, which will rep pacity.	place them, also need to mitigate the
As the evaluation of all water q current pumping capacity of 6, incomplete. The tidal hydraulid discussion of these cumulative	puality impacts in Chapter 5.3 are base 680 cfs with temporary barrier operati cs analysis in Appendix D would need impacts should also be included in Ch	d on the baseline assumption of ons, the resulting analysis is to be reworked accordingly. The papter 10, <i>Cumulative Impacts</i> .
Comment #DO8 - Appendix I Aside from Comment #DO7 ab	D, DSM2 Modeling Methods and Re pove, please consider the following im	sults provements to the tidal hydraulic
 analysis in Appendix D: a) It would be useful to exyears when we also hav River near Stockton. The would provide useful composite use	tend the time period of the DSM2 sim ve data from the ultrasonic velocity me his UVM meter was installed by the U omparison to DSM2 output for the san	ulations to include more recent ter (UVM) in the San Joaquin U.S. Geological Survey in 1995 and the period.
b) Once consideration of c presentation of the DSM results presented qualita quantitative analysis needed.	current pumping and barrier operations A2 flow modeling results needs to be in atively in Figures 5.3-21 and 41 were of eds to be performed and presented to set	are included, the explanation and mproved. (e.g. the modeling difficult to interpret). More support the conclusions made.
Comment #DO9 – Old River The draft SDIP EIS/EIR curren altered channel geometries in D River and Middle River DO im mitigation measures are develo	and Middle River DO Impairments ntly does not evaluate the impacts from Delta waterways, or long-term barrier/j npairments. Until such evaluation is po ped, the EIS/EIR is incomplete.	a various SDIP components (e.g. pumping operations) on the Old erformed, and the required
METHYL MERCURY BAC	KGROUND	,
The Delta is on the State Water mercury in fish. The Central V (TMDL) report to the U.S. Env (http://www.waterboards.ca.go <i>Water Quality Control Plan for</i> be presented to the Central Val technical TMDL report identifi concentrations in Delta fish.	r Board's CWA 303(d) list because of Valley Water Board submitted a technic vironmental Protection Agency (USEP w/centralvalley/programs/tmdl/deltahg r the Sacramento River and San Joaqu ley Water Board for possible adoption ies the SDIP as having the potential to	elevated concentrations of methyl cal Total Maximum Daily Load A) in the summer of 2005 c.html). A draft amendment to the <i>tin River Basins</i> (Basin Plan) will in the summer of 2006. The increase methyl mercury
Methyl mercury is a developme young. The primary route of ex significant positive correlations unfiltered methyl mercury conc aqueous methyl mercury is an i aquatic food chain.	ental neurotoxicant. Most at risk are h cposure is from consumption of mercu s have been observed in the Delta and centrations in water and aquatic biota. important factor controlling methyl me	uman and wildlife fetuses and ry-contaminated fish. Statistically elsewhere between average annual The relationship suggests that ercury bioaccumulation in the
Aqueous methyl mercury is pro	oduced by sulfate reducing bacteria in	sediment. Sulfate is used by these

observed to both stimulate and in not known how sensitive methyl	nhibit methyl mercury production (see I mercury production in the Delta is to c	TMDL report for details). It is changes in sulfate concentration.
Sediment sulfate concentrations sources of sulfate to the Delta ar Sulfate concentrations in the Sac about 450 times less than in sear Joaquin River water and in the v Delta sediment. These changes subsequent bioaccumulation in f	are determined by the concentration in re the Sacramento and San Joaquin Rive cramento River are about 7 times lower water. Therefore, changes in both the n volume of carriage water will alter regio may significantly influence methyl mer fish.	overlying water. Primary ers and seawater intrusion. than in the San Joaquin and nixture of Sacramento to San onal sulfate concentrations in reury production in sediment and
Sulfate amendment studies shou Delta to determine whether meth If the results suggest that methyl methyl mercury concentration ir alternative and the results consid	Id be undertaken with sediment collectory hyl mercury production is sensitive to c I mercury production is a function of su h water and biota should be determined dered when selecting the preferred alter	ed throughout the year from the hanges in sulfate concentration. Ilfate, then the net change in for each SDIP operational native.
METHYL MERCURY COM	MENTS	
Comment #Hg 1. References to There is no mention in Chapter 1 in the Delta, or the tributary San	to relevant Regulations Omitted 5.3, Delta Water Quality Issues, of the Joaquin River and Mud Slough.	CWA 303(d) listing for mercury B-1
Comment #Hg 2. Applicable C Chapter 5.3 needs to mention the small and large fish methyl mere mercury goal to meet the tissue	Criteria for Mercury at the draft methyl mercury amendment cury tissue objective and an average and objectives.	to the Basin Plan recommends a cvr nual unfiltered aqueous methyl B-14
Comment #Hg 3. Methods for Chapter 5.3 should include DSM alternatives change ambient sulf results should be integrated with magnitude of change in water ar	Assessing Methyl Mercury Impacts 12 modeling results to quantitatively de ate concentrations at various locations in a laboratory and field methyl mercury p and fish tissue methyl mercury concentra	termine how the SDIP in the Delta. The DSM2 sulfate roduction results to predict the tions for each SDIP alternative.
Comment #Hg 4. Cumulative As stated in Comment #DO7 ab the cumulative effects of both th also include an analysis of how of mercury production in water pur and Mud Slough. Finally, the cu alternatives and from agricultura be evaluated.	Impacts ove, the methyl mercury analysis in the the SDIP and the existing SWP and CVP changes in ambient Delta sulfate concer mped onto Delta Islands and exported s amulative impact on the Delta of methy al return flow from Delta Islands and the	SDIP EIS/EIR needs to consider operations. Chapter 10 should ntrations might affect methyl outh to the San Joaquin Basin I mercury from both the SDIP e San Joaquin River basin should
GENERAL COMMENTS		
Comment #G1 – Section 401 V	Vater Quality Certification	

Paul M	farshall	- 7 -	7 February 2006	5
GENE	RAL COMMENTS			
Comm Any pa Army Board applica project long-te certific Qualit comm	nent #G1 – Section 401 W roject involving in-stream Corps of Engineers. As p must certify that the properation for a Section 401 Wa t has no impact on water q erm (e.g. effects of new dr ed SDIP EIS/EIR would n y Certification, the SDIP 1 ents above.	Vater Quality Certification construction activity requires a CWA S art of this process, according to CWA S osed project will meet applicable water ater Quality Certification for the SDIP r puality, whether short-term (e.g. impacts edged channel geometry or long-term b eed to be part of that application. To su EIS/EIR would at least need to address	ection 404 permit from the U.S. lection 401, the State Water quality standards. An needs to demonstrate that this is from construction activities) or arrier/pumping operations). A apport a Section 401 Water the DO and mercury related	CVWQCI -17
If there jbruns	e are any questions regard @waterboards.ca.gov or b	ing these comments please contact Jerry by phone at 916-464-4831. Thank you,	y Bruns by e-mail at	
Sincer	ely,			
K	mand Lands	4		
Kenne Acting	th D. Landau g Executive Officer			
Enclos	sures (2)			
ce;	Jerry Bruns, Central Val Les Grober, Central Val Sue McConnell, Central Chris Foe, Central Valle Gita Kapahi, State Wate	ley Water Board ley Water Board Valley Water Board y Water Board r Board, Division of Water Rights		

inston H. Hickox	Roh	ert Schneider, Chair	
Secretary for Environmental Protection	Sac Internet Addres 3443 Routier Road, S Phone (916)	ramento Main Office is: http://www.swrcb.ca.gov/rwq uite A, Sacramento, California 9: 255-3000 • FAX (916) 255-3015	Gray Got 5827-3003
TO:	Paul Marshall Department of Water Resources Bay-Delta Office	FROM:	Mark Gowdy San Joaquin River TMDL Unit
DATE:	31 October 2003	SIGNATURE:	mill-
SUBJECT:	ADMINISTRATIVE DRAFT REPORT, SOUTH DELTA IN	ENVIRONMENTAL APROVEMENTS PF	IMPACT STATEMENT / OJECT (SDIP)
having a po methods or example, ju have an eff	significance criteria in Chapter 5.3 stification was not provided to sup ect on DWSC dissolved oxygen co ty impact WO-19 should be provid	t oxygen concentration or elsewhere in the deport the assumption the ncentrations. The ana led, including detail on	is. Discussion of the assessment ocument was not found. For at only flows less than 1,500 cfs lysis supporting the assessment of the nature of the potential impact
water quali during diffe Mitigation quality imp required. It either main the full effe portion of t	erent months and flow conditions f measure WQ-3 has the potential to act WQ-19, however, a more detai is the position of Regional Board tain flow rates in the San Joaquin H ct of the CVP and SWP pumping J as flow that cannot be maintained	or the various alternation provide some or all or led description of Old staff that the SDIP fac liver past the head of or projects, or provide an because of other project	ves. The required mitigation for water River tidal gate operations is lifties be operated, at all times, to Old River that would exist without alternate form of mitigation for that of constraints.
water quali during diffi Mitigation quality imp required. It either main the full effe portion of t A detailed n the material topics. Add	eview of the document was not po presented on the hydraulics gover litional comments will be provided	or the various alternation provide some or all or led description of Old staff that the SDIP fac diver past the head of of projects, or provide an because of other project ssible in the time prov- ning the flow split at the on the public review of the start of the split at the start of the split at the split at the split of the split at the split of the split at thes	ves. The required mitigation for water River tidal gate operations is litities be operated, at all times, to DId River that would exist without alternate form of mitigation for that of constraints. ided. Staff will continue to evaluate the Head of Old River and other draft.
water quali during diffi Mitigation quality imp required. It either main the full effe portion of t A detailed n the material topics. Add Please feel our commen	event months and flow conditions is measure WQ-3 has the potential to act WQ-19, however, a more detain is the position of Regional Board tain flow rates in the San Joaquin H et of the CVP and SWP pumping H the flow that cannot be maintained is eview of the document was not po presented on the hydraulics gover litional comments will be provided free to contact me at (916) 255-631 its further.	or the various alternation provide some or all or led description of Old staff that the SDIP fac Giver past the head of or projects, or provide an because of other project ssible in the time provening the flow split at the lon the public review of 7 or by e-mail at gown	ves. The required mitigation for water River tidal gate operations is filities be operated, at all times, to DId River that would exist without alternate form of mitigation for that et constraints. ided. Staff will continue to evaluate the Head of Old River and other draft. <u>dym@rb5s.swrcb.ca.gov</u> to discuss

	С	entral Valley Region Robert Schneider, Chair		
Terry Tamminen Secretary for Environmental Protection	Internet 3443 Routier R Phon	Sacramento Main Office Address: http://www.swrcb.cs.gov/rwq load, Suite A, Sacramento, California 9 a (916) 255-3000 • FAX (916) 255-301:	eb5 5827-3003 5	Arnold Schwarzenege Governor
TO:	Patrick Wright Executive Director California Bay-Delta Autho	FROM:	Les Grober San Joaquin Ri	ver TMDL Unit
DATE:	17 November 2003	SIGNATURE	fil	h
SUBJECT:	CONSIDERATIONS FOR	R PROPOSED ACTIONS	S IN THE SOUT	H DELTA
Impact on D Proponents impairment implements the DWSC i from upstrea diversions, a of alternativ	bissolved Oxygen Impairment of the proposed set of actions in the DWSC will be address the actions. Regional Board is caused by the combined eff am, ii) reduced flow through and iii) the altered geometry of es, the CALFED process add	t in the Stockton Deep Wat in the South Delta have in ed comprehensively as par staff has determined that th fects of i) loads of oxygen of the channel caused by upsh of the channel itself. In ord ressing this impairment wi a moblem and the potentio	ter Ship Channel (dicated the dissol t of the CALFED he dissolved oxyg lemanding substa ream reservoir op ter to achieve a ba ll need to give con	DWSC) ved oxygen process that en impairment in nees to the channel erations and other lanced evaluation nasideration to the emitigated
A TMDL in submitted to implemental causes and a responsible mitigation m part of the C	plementation plan was devel Regional Board staff in Febr tion plan could provide an acc diternative solutions to this im for the various contributing fa- neasures. Having the Califon PALFED process would provi	oped by the Dissolved Oxy ruary 2003. With some fur ceptable framework for a w apairment. The studies out actors with the information nia Bay-Delta Authority ma ide the leadership and coord	ygen TMDL Steer ther development vell-balanced eval lined in this plan needed to develo anage the execution dination these effo	ing Committee and , this uation of the can provide entities p the required on of this plan as orts require.
	California 1	Environmental Protection	Agency	
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		8	

5	Patrick Wright	-2-	17 November 200
	Impacts on Old and Middle River Old River (between the San Joac San Joaquin River and the Victo impaired due to low dissolved or TMDLs to evaluate the causes an conditions in the South Delta hav planning required for the set of a impacts on these impairments. Impact on San Joaquin River Wa Delta water delivered to the San of salt in the river. The effect the salinity impairment must be cons boron, selenium, diazinon, chlory water quality impacts of sedimer with regard to the augmentation Federal water projects via the Ne consider the water quality impact	er Dissolved Oxygen Impairments juin River and the Delta Mendota Car ria Canal) have been included on the kygen conditions. Although the Regi nd potential solutions to these impain we an impact on how oxygen demand actions in the South Delta need to incl ater Quality Joaquin River via the Delta Mendota at increases in salinity of Delta water sidered. The San Joaquin River is cur pyrifos, organochlorine pesticides, me at, pesticides, selenium, and other pol of San Joaquin River flow by recircul awman Wasteway. The planning pro t on Newman Wasteway and the San	nal) and Middle River (between the State Board's 303(d) list as onal Board has not commenced ments, it is very likely that flow is exerted in these channels. The ude consideration of potential Canal is one of the largest sources has on the San Joaquin River rrently listed as impaired for salt, ercury, and unknown toxicity. The lutants must also be considered ating flow from the State and cess for this project will need to Joaquin River. Waste Discharge
	Requirements may also be require Section 401 Water Quality Certific Under Clean Water Act (CWA) Stinto a water of the U.S. must obta such a project has the possibility Certification under Section 401 c	red from the Regional Board. fications and Waste Discharge Requir Section 404, projects that propose to o ain a permit from the U.S. Army Con- to affect water quality, the project mu- of the CWA. In California, the State a	rements discharge fill or dredged material os of Engineers (USACOE). If ist also apply for a Water Quality and Regional Boards are
	responsible for providing these C California law, In order to issue in accordance with the Basin Play and not violate anti-degradation p Requirements may also be require	WA Section 401 certifications, which a CWA Section 401 certification, it is n, protect beneficial uses, comply with policy of State Board Resolution No. red from the Regional Board for the d	h are enforceable orders under nust be found that the project will, h numeric water quality objectives, 68-16. Waste Discharge isposal of dredging spoils.
	The improvements addressed by Delta Improvement Projects (SD structures in the South Delta and Section 401 certification from Re need to provide mitigation for an Delta, including dissolved oxyge position of Regional Board staff i Water Project and Central Valley	the draft Bay-Delta Authority resoluti IP). The SDIP involves dredging and will require a CWA Section 404 per egional Board staff. In order to obtain y negative impact it may have on any n impairments in the DWSC and Old that the SDIP must provide mitigation Project pumping on flows in the San	ion include the proposed South construction of other in-stream nit from the USACOE and a CWA this certification, the project will water quality conditions in the and Middle Rivers. It is the for the entire effect of State Joaquin River.
	Impacts on NPDES Permitted Fa The determination of effluent lim amount of flow available in the ro the discharge. If flow in a receiving of actions in the South Delta, that	<u>cilities</u> itations for NPDES permitted wastew eceiving waterbody for dilution of con ing waterbody for a wastewater facility t facility could potentially be faced wi	vater facilities may consider the istituent concentrations present in by is decreased by the proposed set it more stringent NPDES effluent

-	Patrick Wright	-3-	17 November 2003
1.			
	limitations for which costly imp process for improvements in the	rovements or operational changes may South Delta must include consideratio	be required. The planning n of such potential impacts.
	To the extent that these consider staff report it will provide assura agency watershed stakeholders the the leadership of the California H concerns by you and your staff a planning process.	ations can be addressed in the Bay-Del nce to the State and Regional Boards a nat they will be addressed in a thorough Bay-Delta Authority. We appreciate the nd look forward to participating constru-	ta Authority resolution and/or nd various other agency and non- i and well-balanced fashion under e consideration given to our uctively in the upcoming
	cc: Gita Kapahi - State Water R	esources Control Board	

Responses to Comments

CVRWQCB-1

The potential effects of the SDIP tidal gate operations on the Stockton DWSC DO concentrations are fully described and evaluated in Section 5.3.

CVRWQCB-2

Data for DO in Middle and Old River channels are very limited (See Figure 5.3-7). DO changes in these channels are speculative; however, the increased tidal flushing that will be provided with the tidal gate operations described in Section 5.2 will likely improve the periods of low DO that have been measured in these channels.

CVRWQCB-3

The effects of the SDIP on the DWSC localized area of low DO are fully described under Impact-WQ-13. No documentation exists on the causes and extent of impairment of low DO in Middle or Old River. The section describing RWQCB DO TMDL efforts in Section 5.3 has been modified as suggested. References in Chapter 8 of the Draft EIS/EIR have been added for the DO TMDL Implementation Plan and D-1641.

CVRWQCB-4 and CVRWQCB-5

Changes in Section 5.3 have been made to clarify that the DO objective is a minimum DO concentration and that no change in DO is allowed if the DO is already less than the DO objective. The significance criteria for DO are no changes if the DO is already below the objective and no reductions of more than 0.5 mg/l, when the baseline DO is greater than the objective plus 0.5 mg/l. The Basin Plan DO objective is 5.0 mg/l at all times in Middle And Old River channels. However, because no tool is available for evaluating potential changes in DO concentrations in Middle River and Old River channels, no DO impacts are identified for these channels.

CVRWQCB-6 and CVRWQCB-7

The simplified relationship between flow and DO was not given directly in the RWQCB staff report. The relationship between DWSC flow and DO that was assumed for the impact analysis is reasonable for comparative impact evaluations. This relationship is the general pattern shown in the referenced RWQCB staff report. The assumptions used in the SDIP Draft EIS/EIR

assessment are clearly stated, but the text has been changed so that the relationship is not directly attributed to the RWQCB staff report.

CVRWQCB-8

Please see Master Response O, Gate Operations Review Team.

The future ability to increase DO with an oxygenation device in the DWSC will perhaps make these adaptive management decisions for the head of Old River gate somewhat easier. As a separate project from SDIP, DWR is proceeding with construction and testing of a full-scale pure oxygen aeration system for the Stockton DWSC. Construction is on schedule to have the facility completed by fall 2006 and begin testing and operational monitoring in spring 2007.

CVRWQCB-9

Please see Master Response H, Cumulative Impact Baseline Conditions.

CVRWQCB-10

In Appendix D, Figures D-23 and D-24 show comparisons of the DSM2 results and the Stockton tidal stage and tidal flow for the calibration periods of 1997–1999 and February 1996. The comparisons are generally good, although measured flows and stages appear to be higher than the simulated values for the high flow period of February 17–March 2, 1996. A more focused evaluation of the modeling results compared to the measured flows at the USGS Stockton (Garwood Bridge) station is available in the Temporary Barriers Program monitoring reports for 2003 and 2004.

CVRWQCB-11

The description of the likely effects of the SDIP gate operations on flows and DO in the DWSC is in Section 5.2 of the SDIP Draft EIS/EIR. Additionally, Figure 5.3-21 indicates that Stockton flows will generally be increased with the proposed gate operations. Because the flows during the summer and fall period (June–October) will be higher, it is assumed that DO in the DWSC will increase. Figures 5.3-22 and 5.3-41 show the assumed changes in the DO from the baseline to Stage 1 and Stage 2 operations. More quantitative evaluation of the performance results (i.e., changes in DO in the DWSC) for the head of Old River gates will be made as part of the GORT review and adaptive management decisions.

CVRWQCB-12

Please see the response to comment CVRWQCB-2.

CVRWQCB-13 to CVRWQCB-16

Only those water quality variables that might reasonably be affected by SDIP south Delta tidal gate operations or increased exports were selected for impact assessment. Because the projects do not discharge wastewater and SDIP does not significantly change circulation patterns in Delta water ways, there are no reasonably likely connections between SDIP facilities or operations and total mercury or methyl mercury concentrations. Because there are no established assessment methods for total or methyl mercury in the Delta no computer modeling to simulate effects has been conducted.

CVRWQCB-17

DWR and Reclamation intend to submit an application for Clean Water Act Section 401 water quality certification to the State Water Board prior to implementation of Stage 1 of the SDIP. Measures to ensure that the project would not have any short-term or long-term effects on water quality are included in the SDIP Draft EIS/EIR. The State Water Board will issue a conditional permit, which may include additional measures to ensure that there is no overall degradation of water quality. Additionally, the comments in your letter regarding mercury and DO have been addressed in the Final EIS/EIR, which will become a portion of the 401 certification application.

Comment Letter DBW

00 EVERGREEN STREET, SUITE 100 (CRAMENTO, CA 95815-3888 10) 326-2822	
GRAMENTO, CA 95815-3868 18) 326-2822	
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w dw.ca.gov	120 09 2000 00169
	DBW
February 3, 2006	DBW
Mr. Paul Marshall	
SDIP EIS/EIR Comments	
Department of Water Resources	
Bay Delta Office	
1416 Ninth Street	
Sacramento, CA 95814	
Dear Mr. Marshall:	
The mission of the Department of Roating and Wate	envave (DRW) is to provide safe
and convenient public access to California's waterways an	d leadership in promoting the
public's right to safe, enjoyable, and environmentally sound	d recreational boating.
The Department is the lead agency for controlling M	Nater Hyacinth and Ederia densa in
the Sacramento-San Joaquin Delta its tributaries and the	Suisun Marsh These non-native
aquatic plants form dense mats of vegetation that obstruct	navigation channels marinas
irrigation systems, and water intake structures. These wee	eds have a negative impact on the
Delta ecosystem. They displace native plants; block light r	needed for photosynthesis, and
reduce the amount of dissolved oxygen in the water, and d	deposit silt and organic matter at
several times the normal rate.	
The Department of Boating and Waterways reviewe	ed the Draft South Delta
Improvements Program EIS/EIR and has the following con	nments:
 Table 6.2-S on page 6.2-1, VEG-4: Spread of noxio 	ous weeds as a result of gate
construction and channel dredging: The mitigation	measure to avoid introduction and
spread of new noxious weeds may reduce the risk to	to less than significant for non
established notious weeds, nowever, it will not redu	ce the impacts to less than
the dredging areas (which is highly likely) dredging f	the area will spread it Egeria
reproduces by the spread of plant fragments. The c	dredging process will likely create
fragments, many capable of creating new colonies of	of Egeria. The presence of vessels
(especially the propellers) and other equipment in a	reas of Egeria infestations is likely
to create fragments capable of generating new colo	nies in new locations.
2. The DBW strongly recommends cleaning all vegetat	tion off of equipment used in the
water before entering another site to reduce the risk	of spreading invasive vegetation DBW
by the equipment.	
3. The installation of the Department of Water Resource	ces (DWR) temporary rock dams.
if done prior to July 1, enabled the DBW to begin sp	praying to control invasive
vegetation early. The current proposal for permane	ent dams and the method of

Ation will most likely jeopardize early spraying based on concerns from National nic and Atmospheric Administration (NOAA Fisheries). This loss of time will control of both <i>Egeria densa</i> and Water Hyacinth much more difficult. DBW I like to work with DWR concerning the issue. T Hyacinth is a floating plant and will drift around until some obstacle contains it. ock dams function as an obstacle. Hyacinth plants back up behind the dams for ded periods of time. This has allowed the build up of a hyacinth seed bank. e areas will function as a nursery for hyacinth with the proposed dams and their tion. This will likely cause an increase in the spread of hyacinth. Hyacinth is ntly a problem at the Clifton Court Forebay. The proposed project will likely ase this problem due to the seed bank that now exists.
r Hyacinth is a floating plant and will drift around until some obstacle contains it. ock dams function as an obstacle. Hyacinth plants back up behind the dams for ded periods of time. This has allowed the build up of a hyacinth seed bank. e areas will function as a nursery for hyacinth with the proposed dams and their tition. This will likely cause an increase in the spread of hyacinth. Hyacinth is ntly a problem at the Clifton Court Forebay. The proposed project will likely ase this problem due to the seed bank that now exists.
the placement of permanent operable flow control gates and vessel locks, there i
otential and likely need for developing boating regulations to control the speed, ion, and size of vessels that will use the locks. Section 660 and 662 of the ors and Navigation Code address the areas and limitations of boating regulations ed by political subdivisions of the state, including among others, cities, counties, ther state agencies, such as DWR. The four areas allowed include, establishing d zones, establishing time-of-day use, establishing special use areas, as ibed in section 651 (v) of the Harbors and Navigation Code which are not in ct with state laws. (For reference to these laws, please use the following web- http://www.leginfo.ca.gov/calaw.html.)
njunction with the need to regulate vessel traffic in the areas with restricted ige, such as through the proposed boat locks, there may be a need to post , buoys, lights, or other markers, to control vessel traffic or to provide information ssel operators, such as informing the vessel operators about speed limits, hours ys of operation, limitation on vessel by length of width, preferred channel, or safety information. Such waterways markers must be placed in accordance with deral waterways marking system or with the state's waterway marking system. J.S. Coast Guard's Waterways Management Unit in Alameda, California, may be
cted at (510) 437-3073. Coast Guard determines it does not have jurisdiction for this project then the s waterway marker regulations should be used to place any waterway markers, or buoys necessary to manage the vessel traffic in these areas. The state's way marker regulations may be accessed by using the following link:

-						
Mr. P Febru Page	aul Marshall Jary 3, 2006 Three			FEB 0 9 200	06	69
7.	The width, length to facilitate the va should be provide	, and depth of the st majority of ve ad in the final El	ne proposed locks essels using the ar S/EIR.	should be of eas in question	sufficient dim on. Data to th	ensions is end DBW-7
8.	The installation of areas which could environment. Ve heavy or congest anchor or tie up to vessels to pass the and litter control. and land environe mitigated.	f boat locks on t d have an impac ssel traffic on th ed with vessels o the shoreline v brough the locks Human waste a ment. Therefore	he waterways may ct on recreational to e Delta during the trying to transit the while they wait the awould likely creat and/or litter would e, it is recommend	y cause delay poaters and th summer mon e locks. Vess ir turns. The e a need for r have negative ed that these	is in these res ne surrounding ths may becc els may have waiting or sta restrooms, res impacts on t potential impa	tricted gome to drop ging of et areas, he water acts be
	The types of mitig drinking fountains enhancements, s	ation we sugge to keep vessel uch as landscap	st would include the operators and the bing and shade tree	ne constructio ir passengers es.	on of restroom s hydrated, an	s, d other
Th work feel fr	nank you for the op with you on any of ree to contact me a	portunity to com the issues discu t (916) 263-078	nment on the Draft ussed in this letter. 0.	EIS/EIR. We If you have a	e would be ple any questions	eased to please
			Sincerely,			
			David L. Johnson Deputy Director	hnson		

Responses to Comments

DBW-1

DWR commits to working with the Department of Boating and Waterways (DBW) to consider chemical treatment of any Egeria beds in the vicinity of the dredging or construction area prior to dredging to reduce the risk of fragmentation and spreading.

DBW-2

An environmental commitment has been added to Chapter 2 of the SDIP Draft EIS/EIR to ensure that vegetation is removed from equipment used in the water.

DBW-3

DWR commits to working with the DBW to support the aquatic weed control program. The proposed gates can be operated to more fully close off each canal for some time period. The more effective closure of the canal will both prevent fish from entering the area and prevent aquatic weed spray from being flushed out. These combined effects have the potential of reducing impacts on fish and improving weed control.

DBW-4

The SDIP operable gates will no longer cause water hyacinth to back up. Water hyacinth will continue drifting toward the trash racks at the DMC Tracy intake and at the Skinner Fish Facility within CCF. Normal removal and disposal techniques will continue to be used.

DBW-5

DWR will work with DBW to develop these regulations.

DBW-6

The design of the boat locks at the gate structures includes signs, navigational lights, warning signs, and water level recorders, as described in Chapter 2 of the SDIP Draft EIS/EIR.

DBW-7

The boat locks are designed to pass multiple large boats. Boat surveys conducted by DWR indicate that the size of the boat locks will be adequate to allow passage of most boats using Delta waterways. DWR's personnel performed a study that determined the proposed locks would pass all Delta rental houseboats except for one very large houseboat 65 feet long. (McQuirk pers. comm.)

The bottom hinge lift gate designs can also be used to pass barges when upstream stage does not need to be maintained artificially high.

DBW-8

The proposed boat locks are designed to pass a number of smaller boats (which typically use the area) at a time. Four boats up to 30 feet in length can be passed in a single turn. The cycle time for the proposed lock is approximately 15 minutes (depending on the differential head). This equates to passage of about 16 large recreational boats an hour. Operators will be told to make notes of average wait times for boat lock users. If wait times become significant, other measures can be installed to reduce potential impacts on the environment. Public restrooms and trashcans are included in the current plans for the boat lock facilities.

Comment Letter DC

			AKNOLD SCHW	ARZENEGGER, GOV
0x	DEPARTME	NT OF CON	SERVA	TION
	DIVISION OF	LAND RESOURCE PROT	ECTION	
	801 K STREET ·	MS 18-01 • SACRAMENTO, CALIFORM	NA 95814	
ONSERVATION	PHONE 916 / 324-0850 • FAX 914	6/327-3430 • TDD 916/324-2555 •	WEB SITE conservation	h.ca.gov
		FI	EB 0 6 2006	00119
January 31, 2	2006			
Mr. Paul Mar	shall			
Department of	of Water Resources			
South Delta E	Branch			
1416 9" Stre	et			
Sacramento,	CA 95814			
Me Sharon M	AcHale			
U.S. Departm	nent of the Interior			
Bureau of Re	clamation		19 A.	
2800 Cottage	Way			
Sacramento,	CA 95825		ų.,	
Subject: SC So	H# 2002092065 - Draft I uth Delta Improvements	Environmental Impact Sta Program	atement/Repor	t for the
Dear Mr. Mar	shall and Ms. McHale:			
The Departm	ent of Conservation's Div	vision of Land Resource	Protection (Div	ision)
monitors farm	nland conversion on a sta	atewide basis and admini	isters the Califo	ornia Land
Conservation	(Williamson) Act, Califor	mia Farmland Conservar	ncy Program, a	nd other
agricultural la	and conservation program	ns.		
The Californi	a Department of Water R	esources and the U.S. D	.I. Bureau of R	eclamation
have agreed	to jointly pursue the deve	elopment of the South De	elta Improveme	nt Project
to address re	gional and local water su	pply needs as well as th	e fish and wildi	ife needs.
Project objec	tives and purposes includ	te a reducing in the mov	ement of Centr	al Valley
adequate wa	ter levels and water qual	to the south Delta via Of	one in the south	n Delta
and increasin	a water deliveries and de	elivery reliability for water	r contractors, fi	sh and
wildlife by inc	reasing diversion at Clift	on Court Forebay to 8,50	0 cfs. The follo	wing
construction	and operation activities a	re proposed:		
 A fish 	control gate at the head	of Old River		
 Up to t 	three flow control structure	res to improve existing w	ater level and o	circulation
patterr	ns for south Delta water u	isers		
 Flow c 	ontrol gates at Middle Ri	ver, Grant Line Canal an	d Old River	
Peut	The Department of Conservation's	mission is to protect Californians and	their environment by:	(allin a
2104	Concerning California's farmle	nd: and Savina energy and resources i	through recycling	manage.

Mr. Paul Marshall Ms. Sharon McHale January 31, 2006 00119 Page 2 of 2 FEB 0 6 2006 Dredging of various (minimally Victoria, North and Grant Line) channels and in • the Middle River, Grant Line Canal and in Old River to improve conveyance Extension of up to 24 agricultural diversion intake facilities Four alternatives, including the No Action alternative are considered and analyzed. We offer the following comments: Land and Water Use is discussed in Chapter 7.1. The land use in the vicinity of Old River Gate, Middle River at North Canal, Grant Line Canal at Delta Mendota Canal, Old River at Delta-Mendota Canal Gate, West Canal, Middle River, and Old River is predominantly agricultural. Impacts associated with land uses were assessed by basing the compatibility of construction and operation the project on adjacent land uses and the compatibility with local land use plans and policies. A Farmland Conversion Impact Rating prepared resulted in less than significant impacts to agricultural resources. The document cites nine CALFED programmatic mitigation measures that will be implemented to alleviate impacts to agricultural resources, as the project progresses. The final EIS/R and any other documents prepared that support this project, such as the Delta Regional Ecosystem Restoration Implementation Plan should provide a detailed discussion of those agricultural lands that would be acquired and whether termination of Williamson Act contracts would result in order to accommodate the project, or Plan. It DC-1 should also further discuss whether such Williamson Act contract termination would affect nearby properties also under contract. If any part of the project's affected acreage is under Williamson Act contract, and any part of it is to continue under contract after project completion, the document should discuss the proposed uses for those lands. Uses of contracted land must meet compatibility standards identified in Government Code Sections 51238 - 51238.3; otherwise, contract termination (see paragraph above) must occur prior to the initiation of the project. Although this information may be more appropriately included in another section of the document, it should be briefly discussed in the Land Use/Environmental Setting section of the EIR/S. Please note that any acquisition of contracted land by a public agency must meet the requirements set forth in Government Code sections 51290 to 51295. Specific findings would need to be reported to the Department of Conservation in the required notice to the Director. The requirements for findings may, under certain circumstances, be waived under Government Code section 15993 (h). Thank you for the opportunity to review this document. Please contact Jeannie Blakeslee at (916) 323-4943 if you have any questions regarding these comments. Sincerely, Dennis O'Bryant Acting Assistant Director

December 2006

Responses to Comments

DC-1

The text in Section 7.1 of the SDIP Draft EIS/EIR has been modified to provide quantitative information regarding Williamson Act contracts and land use changes.

Comment Letter DFG

		DFO	G
State of C	California		
wen	norandum	FEB 07 2006 0015	5
Date:	February 7, 2006		
To:	Paul Marshall, South Delta Program Manager		
	Department of Water Resources		
	1416 Ninth Street, 2 nd Floor, 215-30		
	Sacramento CA 95874		
	Many atto		
From:	Banky Curtis, Deputy Director		
	Habitat Conservation Division		
	Department of Fish and Game		
	1416 Ninth Street, 12 th Floor		
	Sacramento, CA 95814		
Subject:	Department of Fish and Game Comments on the O	ctober 2005, South Delta	
	Improvements Program Draft Environmental Impact	t Report/Statement	
	The Department of Eich and Come (Department) or	poreciptos the opportunity to	
	The Department of Fish and Game (Department) ap	South Delta Improvements	
	review and provide comments on the October 2005	opt (DEIP/S) Our comments	
	Program Draft Environmental Impact Report/Statem	The general comments will	
	are divided into two categories, general and specific	the specific comments in an	
	attached table.	the specific commons in an	
	The South Delta Improvements Program (SDIP), as	s currently proposed, has been	
	separated into two distinct "Stages" with Stage 1 co	onsisting of the installation and	
	operation of permanent gates (three agricultural ba	rriers and one fish barrier),	
	conveyance and spot dredging in selected channels	s, and the extension of up to	
	twenty-four agricultural diversions. Stage 2 consist	s of the proposed increase of	
	State Water Project (SWP) permitted pumping leve	Is from 6,680 cfs up to 8,500	
	cfs. It is the Department's understanding that, until	such time more information is	
	produced by the Pelagic Organisms Decline Working	ng Group (POD) on the reasons	
	for the decline in the abundance of several pelagic	species, the Department of	
	Water Resources (DWR) will delay the implementa	tion of Stage 2 of the SDIP.	
	San Joaquin River Basin Salmon: In addition to	sharing the heightened concern	
	over the decline of several pelagic organisms occu	pying the upper Sacramento-	FG
	San Joaquin estuary, the Department is also very of	concerned about the future	
	viability of Chinook salmon in the San Joaquin Rive	er basin. Therefore, we request	
	additional analysis be included in the supplemental	environmental documentation	
	preceding a Stage 2 decision.	,	

Paul Marshall February 7, 2006	· · ·			
Page 2	FEB	0 7 2006	00155	
Abundance of the adult salmon runs in the bas despite extensive physical channel and habitat increasingly restricted salmon harvest in ocean implementation of the Vernalis Adaptive Manag objectives in the Delta. Studies have documen smolts migrating through the Delta in recent ye low survival remain unknown but it is clear that run smolts migrating through the south Delta a Sacramento basin fall-run smolts migrating thro the same season and b) extremely low surviva through the south Delta is a significant factor in in adult fall-run escapement in the San Joaquir	in's tributaries remains restoration work in and inland waters, gement Program to a ted consistently poor ars. The specific manual a) survival rates for re significantly lower bugh the north and continued the anthe continued depresent tributaries.	in depresse the tributari and ongoin meet water or survival o echanisms San Joaqu r than survi central Delta salmon mig ression and	ed ies, quality of salmon for this uin fall- val of a during grating decline	
As the DEIS/R points out, operation of the gate increase the survival of these migrating salmor south Delta via Old River, thus shunting them a and SWP export facilities and keeping a greate River channel, to facilitate their downstream m that this gate will be operated throughout the ju thus it may not contribute to resolving the many confused hydrodynamics in Delta channels can water quality affecting these juvenile salmon as We also have concerns that even with the oper permanent head of Old River gate, there may be such as delta smelt will govern how the gate no potential benefits for San Joaquin salmon.	e at the head of Old h by reducing their m away from Central V er proportion of flow ovement. However, uvenile salmon out n y problems, such as using delays in migra s they migrate to and rational flexibility affe be circumstances wh eeds to be operated	River may novement in falley Project in the San it is not clean inadequated ation, and p d through the orded by a men listed s , diminishin	help hto the ct (CVP) Joaquin ear to us eriod and e flows, boor he Delta. pecies ig any	DFG-3
The Department and others are interested in e Joaquin salmon survival and recovery of health The Department, as well as the federal fishery seek habitat improvements and flow enhancen for the recovery and long-term viability of anad recently presented its views on the importance flow into the Delta during State Water Resource of periodic review of the Bay Delta Water Qual seeking improvements.	liminating the factor by production levels agencies and stake nents in tributary wa romous species. The for salmon of spring the Control Board's w ity Control Plan and	s limiting Sa in all water holders, co tersheds es be Departm g San Joaq workshops expects to	an years. ntinue to ssential ent uin River as part continue	DFG-
We must continue to investigate the factors aff Delta and upstream migration of adult salmon and newly obtained information must then be a gates and to future analyses and Stage 2 decis component of the SDIP.	ecting survival of sa into the San Joaquir applied both to opera sions regarding the o	Imon smolt n basin. Ex ation of per operational	s in the tisting manent	DFG-4

February 7, 2006 Page 3	
FEB 07 2006 00155	5
The Department looks forward to working with DWR, Reclamation, and others to achieve meaningful progress on this topic, as well as on the pelagic organism decline, in anticipation of a future Stage 2 SDIP decision and associated permitting on the operational component.	DFG-4
The Department requests that DWR develop a series of avoidance, minimization or mitigation measures that can be implemented should a conflict develop between fish and wildlife resources as a result of either the operation or non-operation of the SDIP structural components. These measures should be designed so that they offset the impacts arising from conflicting environmental needs imposed or exacerbated by the SDIP and the operation of the gates and their interaction with the existing or increased level of pumping during Stage 2.	DFG-5
Adaptive Management: Adaptive Management in the document refers to both a real- time management scheme for operations (e.g. page 5.2-28) and a process for modifying mitigation measures (e.g. 6.1-114). Prior to relying on "Adaptive Management" as an environmental commitment or a mitigation measure, the Department requests that more specificity be added to the EIR on all parts of the adaptive management framework in response to the following:	
1. The conceptual models for fish species in Chapter 6 are very comprehensive, but are quite broad and do not show how the specific operations of the gates and pumps will be studied, including whether or not the Department's existing monitoring program for gate operations is deemed incorporated, whether additional uncertainties are to be addressed, and what other monitoring programs will be carried out relative to those uncertainties.	DFG-6
2. What parameters and resources will be monitored? What data reporting, analysis, and synthesis systems will be instituted?	
3. What are the decision-making systems and how will monitoring information be used? Specifically, the process for final decision making regarding gate operations needs to be defined. The existing document (e.g. pages 2-29 and 2-30) refers to a Gate Operations Review Team with representatives from DWR, the US Bureau of Reclamation, the US Fish and Wildlife Service, the National Marine Fisheries Service, the Department, and "possibly others as needs change." However, the document does not explain whether recommendations from the fisheries agencies with respect to gate operations, particularly head of Old River gate operations ostensibly to benefit species, are advisory or binding. In the event of conflicts between water level, water quality and fish resources, whether or not the advice of the Department and other trustee agencies for fish and wildlife must be followed will determine the degree to which the impacts of operations could adversely affect fish and wildlife.	
	<text><text><text><text><text><list-item><list-item><list-item></list-item></list-item></list-item></text></text></text></text></text>

February 7, 2006 Page 4 FEB 0 7 2006 00/55	
The document states the SDIP effectiveness monitoring and relevant monitoring (and research) will be conducted by the CALFED Science Program to evaluate the effectiveness of compliance mitigation measures. The Department believes the SDIP monitoring program should be consistent with the CALFED process but not rely on it. Given the independent nature of the CALFED Science Program and uncertainties regarding program funding and priorities, it does not appear that reliance on the Science Program to conduct this type of compliance monitoring is feasible or appropriate. As the lead agencies on the Project, DWR and Reclamation are responsible for developing and implementing a project-specific monitoring program.	DFG-
<u>Article 21:</u> The Department is requesting the assumptions and modeling regarding Article 21 deliveries be updated to accurately reflect the extent, timing, and impacts of those Article 21 deliveries on species.	DFG-8
Intertie: The Department is requesting that DWR conduct and include an analysis of the potential impacts associated with the implementation and operation of the Intertie as it relates to SWP and CVP joint operations. This analysis should acknowledge that even without a change in the authorized pumping level of the CVP, the Intertie could potentially change the timing and amount of CVP deliveries above historic export amounts by wheeling CVP water over to the California Aqueduct at a point before the existing constriction in the Delta Mendota Canal as a result of subsidence. In addition, the Department would also like to see an analysis conducted that looks at potential impacts associated with the SWP moving water to the Delta Mendota Canal.	DFG-9
<u>SDIP EIR/S and the Action Specific Implementation Plan:</u> The comments provided in this memorandum and its attachment should also be incorporated in the Action Specific Implementation Plan (ASIP) for the SDIP. The ASIP forms the foundation for the department's proposed Natural Community Conservation Plan (NCCP) approval and permit on the Stage 1 decision. And, while there is a separate process to develop the SDIP ASIP, it is important to keep these two documents tied closely together. We look forward to working with DWR to develop conservation and minimization measures that, when implemented, will ensure the species covered in the NCCP are adequately conserved.	DFG-10
<u>Future Comments on the Implementation of Stage 2:</u> It is our understanding the comments we are providing on the Stage 1 portion of the SDIP, will not preclude the Department from providing further comments on the "Stage 2" component of the SDIP and any inter-related Stage 1 component operations. Moreover, incidental take coverage for the proposed Stage 2 of the SDIP will require that DFG, as a Responsible Agency under the California Environmental Quality Act, have an opportunity to review, comment, and ensure that conservation measures are adequate to conserve and manage covered species.	DFG-1

Paul Marshall February 7, 2006 FEB 0 7 2006 Page 5 This could include, for example, amending the NCCP on Stage 1. If our understanding of the review process for the Staged Components of the SDIP is incorrect please advise us immediately. This memorandum, together with the attached table, concludes the Department's comments on the SDIP DEIR/S. Thanks again for the opportunity to review and comment. If you have any questions regarding the contents of this memorandum please contact Mr. Jim Starr of my staff directly at 209-942-6070 or email him at jstarr@delta.dfg.ca.gov. Attachment cc: Department of Fish and Game Sacramento Dr. Diana Jacobs Ms. Tina Cannon Mr. Jim White Mr. Scott Cantrell Central Valley Bay Delta Branch Dr. Perry Herrgesell Mr. Frank Wernette Mr. Jim Starr San Joaquin Valley - Southern Sierra Region 4 Mr. Bill Loudermilk Ms. Patricia Brantley Mr. Dean Marston Mr. Dale Mitchell **US Fish and Wildlife Service - Sacramento** Mr. Ryan Olah National Marine Fisheries Service - Sacramento Mr. Jeffery Stuart

	Comment Number	Volume/ Page Number	Line, Figure, or Table No.	Comment	Suggested Resolution
FG-12	1	1a/ES-4	Physical/Struc tural Component Actions; second bullet	Delete the word "inefficient", so that it reads as follows: Replace inefficient seasonal barriers with permanent operable flow control gates on Middle Biver Grant Line Cond. and Old Biver.	
DFG-13	2	1a/ES-5	3 ^{re} paragraph	The first sentence states DWR and Reclamation are proposing SDIP as a "self-mitigating project". We suggest you don't use this term and instead state that significant adverse impacts will be fully mitigated to a level of less-than-significant.	
DFG-14	3	1a/ES	Table ES-3	The table should include costs for the SDIP monitoring program and science needs in addition to the fishery investigations already included in the table.	
DFG-15	4	1a/1-10	Ongoing Protection of Fish Resources and Other Environmental Resources	This section only discusses Central Valley fall- and late fall-run Chinook salmon. The export facilities also impacts winter-run and spring-run Chinook salmon, as well as, steelhead and delta smelt.	This section should be expanded to include these and other fish species that occur in the Sacramento-San Joaquin Delta.
FG-16	5	1a/1-11	South Delta fish Protection; 2nd paragraph	The second sentence states that the "barrier is installed and operated April through mid-June and possibly extended to July 1". This is not correct.	Revise to read as follows: "barrier is installed and operated April through mid-June May and possibly extended to July June 1".

Number	Volume/ Page Number	Line, Figure, or Table No.	Comment	Suggested Resolution
6	1a/1-15	Recent Fish Declines in the Delta and Estuary; 1st full paragraph on pace	This section needs to be updated to reflect the current status of the POD studies.	Update with current information.
7	1a/1-15	Recent Fish Declines in the Delta and Estuary; 2nd full paragraph on page; 1st	Reword sentence as follows: Scientific Studies, such as described above, are underway needed to determine the cause of the decline in pelagic fish.	
8	1a/1-15	Recent Fish Declines in the Delta and Estuary; 2nd full paragraph on page; 4th sentence	Delete the sentence beginning "Although" to the end of the paragraph.	These statements do not belong in this section. In addition, DWR and Reclamation are participants not the sole investigators, in the investigation of pelagic species decline
9	1a/1-30	Effects on South Delta Water Users	The option of using low head pumps was taken off the table by DWR early in the negotiations and has not been evaluated by the DFG as a component of the South Delta Improvements Program.	Remove the entire second paragraph in this section.

	Agency Commentor	Name		_	Comment Form
	Comment Number	Volume/ Page Number	Line, Figure, or Table No.	Comment	Suggested Resolution
21	10	1a/2-4	Decision Stages	It would improve the document to clarify the decision stages of SDIP, particularly the Stage 1 decision. The Stage 1 decision will clarify regulatory approval to pump at 6680 cfs along with the construction and operation of permanent gates.	Describe the project as occurring in stages and define the components of each stage. Stage 1 - installation and operation of gates and Stage 2 increased exports to 8,500 cfs.
-22	11	1a/2-15	1" full paragraph	The text characterizes water transfers as potentially resulting in indirect effects in the Delta. During IWOFF meetings some members argued that water transfers should be analyzed as a direct impact in the delta. Was a consensus view reached? How were these opposing views reconciled?	
23	12	1a/2-23	Gate Design and Construction Detail; 2nd paragraph; last sentence	See comment number 9	Remove this sentence
24	13	1a/2-29	Last Paragraph; 2nd sentence	Edit: "to minimize impacts of on resident threatened and endangered species"	
G-25	14	1a/2-39	Table 2-7	The table should include costs for the SDIP monitoring program and science needs in addition to the fishery investigations already included in the table.	
9-26	15	1a/2-50	Environmental Training; last paragraph	The end of the Environmental Training section beginning with, "DWR would operate the gates", contains information relevant to boating awareness and does not belong in this section.	Move this entire section and associated bullets to a new section titled "Boater Awareness"

	Comment Number	Volume/ Page Number	Line, Figure, or Table No.	Comment	Suggested Resolution
27	16	1a/3-9	Mitigation Measures	The text states that not all of the CALFED Programmatic EIS/EIR mitigation measures will be implemented as part of SDIP.	It would clarify matters to say only those CALFED programmatic- level mitigation measures that are relevant to SDIP have been incorporated into the SDIP EIS/R.
G-28	17	la/4	Table 4-1	Fish Impact 38: "beneficial impact" of contaminant spills (after mitigation) to green sturgeon appears to be a typographical error.	Correct error.
G-29	18	la/4	Table 4-1	Fish Impact 46 and associated mitigation implies there is no potential for impact to migrating juvenile salmon from the San Joaquin Basin in the period prior to April 15.	Sampling at Mossdale on the SJR indicates that on average from 1988-2004. IT percent of juveniles migrating downstream into the Delta from mid-March through mid-June do so prior to mid-April and about 10 percent do so after May 31. The VAMP period covers 31 days in mid-April to mid-May 31. The VAMP indication from May 16 – May 31 fails to alter operations-related effects on more than a quarter of the migrating salmon population, on average.
-30	19	la/4	Table 4-1	Fish Impact 47: Potential increased entrainment risk for the juvenile winter-run and spring-run Chinook should also be recognized as occurring in January and February.	•

	Commentor	Name			Comment Form
	Comment Number	Volume/ Page Number	Line, Figure, or Table No.	Comment	Suggested Resolution
	20	1a/4	Table 4-1	Also the Level of Significance and the determination of a Beneficial impact as indicated for effects of Gate Operation on Juvenile and Adult Chinook salmon, Steelhead, Striped bass, Splittall, Green Sturgeon migration and, Delta smelt spawning and rearing habitat and entrainment is misleading and no substantial supporting evidence.	Provide a better analysis/assessment of the impacts and develop a Threshold of Significance for SJR Fall-run Chinook salmon.
2	21	1a	Figure 4-2	Figure 4-2 does not conform to the text on pages 4-7 through 4-9. It appears that the legend and bars on the right side of the figure (SDIP Additional Delta Exports) have got CVP and SWP labeled backwards. The additional exports described in the text and figure do not exactly match the quantities in Tables 5.1-5a through 5.1-7b either (for example, compare SWP Table A and Article 21 additional deliveries for Atternative 2C, as described in: Table 5.1-7b; the text on page 4-8; and, as shown in Figure 4-2). Also, it would clarify information in the Figure 4-2 to add "SWP/CVP combined exports" as a footnote to "SDIP Additional Delta Exports" in the legend and in the title.	

	Commentor	Name			
	Comment Number	Volume/ Page Number	Line, Figure, or Table No.	Comment	Suggested Resolution
0FG-33	22	16/5.1-4	Table 5.1-1	The CALSIM assumptions used for Article 21 demand described in Table 5.1-1 (and Table 5.1- 50) are lower than what is being used for the LT EVA EIS/R. For example, the higher Article 21 demand impacts one existing mechanism for fish protection, EVA, by constraining EVA winter fish actions, reducing EVA's ability to spill debt (thereby increasing EVA debt), and increasing the level of pumping that must be offset by EWA (thus requiring EVA to acquire more assets without any increased level of fish protection). This issue was the subject of numerous WMOFF and WOMT meetings in the spring/summer 2005. Article 21 demands have increased significantly in recent years and the time period of Article 21 deliveries is broader than the November-March period. If the SDIP document is not updated to represent these higher Article 21 demands it will under- represent the impact on fish species of existing	
	23	1b/5.1-4	Table 5.1-1:	higher Article 21 demand will be needed for both the EIS/R and the ASIP.	
0FG-34			p. 6 of 6	assets be shown for each SDIP scenario?	
	24	Ib/5.1-36	Table 5.1-4, etc.	The differences in part C of this and other similar tables are calculated as (part B minus part A), not	Correct the table legend.

	Comment Number	Volume/ Page	Line, Figure, or Table No.	Comment	Suggested Resolution	
-36	25	Ib/5.1-50	Article 21	The first paragraph states the CALSIM model assumed a monthly maximum Article 21 delivery of 50 TAF to MWD and an additional 84 TAF to Kern County. The second paragraph states the maximum possible Article 21 deliveries are 536 TAF/yr, if full monthly deliveries are made in 4 out of 5 months. In Table C2.4 (SWP Article 21 target demands) of the Benchmark Studies Assumptions, Appendix C2, it states MWD's target demand is 200 TAF and dthers demand is 1008 TAF. The maximum SWP's contractors' Article 21 demands are 1208 TAF/yr, if My are the Article 21 demands are 1208 TAF/yr. Why are the Article 21 demands described in the EIS/R and Benchmark Studies		2
37	26	lo/6.1-3	Summary of Significant Impacts; last sentence	Assumptions dimension of the proposal that "if these facility upgrades and procedural changes are determined to be equivalent to the avoidance and crediting system described above, these salvage facility and procedural changes may be substituted for the pumping restrictions as alternative cost- effective mitigation"	Delete this sentence. DFG believes that any changes made to the export facilities will not substitute for operations restrictions that are implemented. Impacts to salvageable sized fish may benefit; however those smaller life stages will not benefit from changes to the facility and procedures.	TED V (200

	commentor				
	Comment Number	Volume/ Page Number	Line, Figure, or Table No.	Comment	Suggested Resolution
8	27	lo/6.1-27	Delta Smelt; 1st paragraph; last sentence	This statement sound like it is predetermining if the project has an effect on a delta smelt prior to it being evaluated.	Reword as follows: To the extent of salinity intrusion into the Delta, as represented by the change in the location of X2, will be evaluated to determine if there is an coefilm-minimal effect on spawning habitat.
	28	lo/6.1-43		The estimation for impact level of entrainment loss compared to the estimated annual Juvenile Chinook salimon expected to enter the Delta was a combination of Sac and San Joaquin river systems.	Separately evaluate entrainment impacts upon SJR salmon population
· [29	10/6.1-83	3 rd full paragraph	This paragraph is very hard to understand. It needs to be clarified and it may also help to include a graphical figure.	
I	30	106.1-114		The text states that SDIP effectiveness monitoring and relevant monitoring (and research) will be conducted by the CALFED Science Program to evaluate the effectiveness of mitigation measures.	Comment: This approach is suggestive of the CALFED CMARP, which has never been fully developed. We don't think SDIP should depend on the Science Program to conduct this type of compliance monitoring nor do we believe it is appropriate. DWIR and Reclamation are responsible for developing and implementing the monitoring program.

Commentor	Name			
Number	Volume/ Page Number	Line, Figure, or Table No.	Comment	Suggested Resolution
31	10/6.1-114	Last # on page, top of page 6.1-115	The text states that resource agencies may also recommend modifications [to mitigation measures] to DWR and Reclamation for review. If DWR and Reclamation concur with the proposed modifications, they will be implemented.	Comment: We suggest you revise this statement. If such changes to mitigation measures are required to avoid the permitted level of take of covered species or to avoid jeopardy, they are non- discretionary.
32	IIb, Appendix J-18	Paragraph 2	4,600 + 10,300 = 14,900, not 15,900.	Please correct the text.
33	llb, Appendix J-23 and 29	J-23, Para. 2 J-29, Para. 5	The fraction of particles passing Chipps Island provides an estimate of fish survival only if entrainment is the only source of mortality.	Provide an explanation of important limitations in the interpretation of PTM results. (This is not to say the PTM approach has no value.)
34	IIb, App, J- 29	J-29, Para. 6	The text suggests that real fish may be even "smarter" than the trained active particles and be more successful in avoiding entrainment using behaviors in addition to tidal surfing. This may be true. But it may also be true that the advantages of tidal surfing implied by active particle PTM results may be overstated because the fish being represented by the particle may not simply be navigating from point A in the direction of point B at the maximum rate possible. For example, the need to physiological adjust to increasing salinity for a fish moving from the Delta to the lower estuary may constrain the rate of travel relative to that of a surfing particle.	Provide appropriate caveats to interpretation of model results.

	Commentor	Name			Comment Form
	Comment Number	Volume/ Page Number	Line, Figure, or Table No.	Comment	Suggested Resolution
-46	35	IIb, App. J- 34	J-34, last Para.	The Delta Smelt Equivalents calculation may be the first ever done. Necessarily it requires some simplifying assumptions. The approach may have value but seems to suffer from at least one obvious problem in assuming that daily or monthly mortality is constant among the various life stages over the course of a year. More likely the mortality rate of adult fish in much lower than that of newly- hatched larvae. Survival rate should increase as the larvae grow to be juveniles and then sub- adults.	We recognize that robust data on stage specific mortality rates are lacking. Bennett (2005) made some estimates. At least explain how deviations from this and other simplifying assumptions used in your method condustions.
47	36	2b/J-34	Delta Smelt Equivalents; 1st sentence	The text states: Although delta smelt were not a species of interest in 1986, they are of great interest now. Comment: This is a value-laden statement that should be revised.	Delete fish sentence
	Department	of Fish and G	ame Review	10	

Section Agency	DFG			SDIP Draft EIR/S Comment Form
Commentor	Name			
Comment Number	Volume/ Page Number	Line, Figure, or Table No.	Comment	Suggested Resolution
37	2b/J-35	Last paragraph	The text states that the most effective mitigation measure for delta smelt involves improvements in the salvage handling and transport of the salvaged fish back to Delta channels. The text further states that SWP and CVP should initiate these improvements.	Whether improvements to facilities, collection, handling and transport will be "the most effective mitigation measure" for delta smelt remains to be demonstrated. It would improve the document to describe the current studies underway and acknowledge the uncertainties with this approach. In addition, this mitigation measure to reduce fish entrainment through improvements in salvage operations needs to be a commitment by DWR and Reclamation (rather than a "should" do).
<end></end>				snouid doj.
		-		
Department (of Fish and (Jame Review		

Responses to Comments

DFG-1

The potential benefits of the head of Old River fish control gate on the population of the fall-/late fall-run Chinook salmon in the San Joaquin River tributaries have been fully described in Section 6.1 of the SDIP Draft EIS/EIR. No additional information is needed for the evaluation of Stage 2 operational scenarios. Any new information from the evaluation and assessment of VAMP, river habitat restoration actions, and improved salvage facilities and handling procedures will be included in the Stage 2 evaluations.

DFG-2

Please see Master Response O, Gate Operations Review Team.

DFG-3 and DFG-4

The efforts of DFG to improve habitat conditions in the San Joaquin and south Delta and to investigate the pelagic organism decline are recognized. Involvement of DFG in the Stage 2 decision process is anticipated.

DFG-5 and DFG-6

Please see Master Response O, Gate Operations Review Team.

DFG-7

DWR will not rely solely on CALFED Science monitoring and research. DWR and Reclamation will use the existing salvage monitoring and other ongoing IEP monitoring programs and results from the additional support being given to IEP for POD investigations. DWR and Reclamation are not proposing additional monitoring and research. Specific mitigation of Stage 2 entrainment impacts is described in Section 6.1 of the SDIP Draft EIS/EIR. The possibility that future CALFED Science Program evaluations, IEP studies, or POD investigations may identify more effective mitigation measures, and that these may be substituted for the expanded EWA or the "avoidance and credit" alternative mitigation measures, is also described in Section 6.1. The proposed mitigation measures are independent of CALFED Science Program funding, and would be replaced only if more effective mitigation is identified in future studies.

DFG-8

Please see Master Response P, Effects of the South Delta Improvements Program on State Water Project Article 21 Deliveries.

DFG-9

The effects of the DMC–California Aqueduct Intertie project are not evaluated as part of the SDIP because the Intertie is a separate project, which has been and is being evaluated independently. However, the cumulative effects of the SDIP, including Intertie, are evaluated in Chapter 10 of the SDIP Draft EIS/EIR.

DFG-10

The SDIP Draft EIS/EIR was developed concurrently with the SDIP Action-Specific Implementation Plan (ASIP). Comments received from DFG that are applicable to the ASIP have also been addressed in the ASIP.

DFG-11

During the Stage 2 decision-making process, DWR and Reclamation will provide a document pursuant to CEQA and NEPA for public and agency comment. This

will provide a second opportunity for discussions and comments regarding the operational component of the SDIP.

DFG 12

The adjective *inefficient* is used in this sentence to describe briefly the inadequacy of the temporary rock barriers used currently in the south Delta. These temporary structures inefficiently move water upstream during a flood tide. Consequently, the inefficient water movement causes some stagnation of the water in Middle River and Old River near the city of Tracy. Stagnation in turn causes water quality problems in the form of low DO, which is bad for fish, and higher salinity, which may be detrimental for agricultural uses.

The proposed permanent gates transfer water much more efficiently because the structure does not restrict tidal flow when the gates are open, thus allowing greater volumes of water to circulate the south Delta.

The use of the adjective in this sentence will remain because it describes the project action appropriately.

DFG 13

In an executive summary it is sometimes useful to use succinct phrases to convey one's point. In this phrase we simply meant to convey that mitigation was a part of the project in addition to the project objectives. Admittedly, this simple statement does not describe the conditions in which the project will mitigate and to what degree those mitigation actions will be effective. Details of mitigation are left for later chapters. The use of "self-mitigating" as a simple description of project intent will remain.

DFG-14

The costs of all aspects of the project mitigation monitoring and science needs are included in the overall costs presented in Table ES-3 of the SDIP Draft EIS/EIR. Additional monitoring and science needs are included in the ASIP to meet the requirements of the California Endangered Species Act (CESA). The costs of these additional science needs are presented in Table 2-5 of the SDIP ASIP.

DFG-15

The SDIP clearly has potential impacts on species other than fall-run Chinook salmon. While the section referred to (1a/1-10) does refer to fall-run Chinook

salmon, many other sections of the document address the needs of other fish species.

DFG-16

The text has been revised per your comment.

DFG-17

Please see Master Response B, *Relationship between the South Delta Improvements Program and the Pelagic Organism Decline.*

DFG-18

The text has been revised per your comment.

DFG-19

The purpose of the document is not simply to describe project elements and impacts but to describe interaction between project elements and other efforts. It was our attempt to describe how the SDIP interacted with the POD studies. This sentence was included to add clarity to project elements in light of the studies described in this section. The sentence is not factually incorrect and will remain.

DFG-20

DWR and Reclamation intend to construct the gates so that they are compatible with actions that may become necessary in the future, such as the operation of low head pumps. Should low head pumps be needed at these gates, additional compliance with CEQA, NEPA, CESA, and ESA may be required.

DFG-21

The text on page 2-4 does describe elements in each stage of the SDIP. To clarify the elements in this section:

Stage 1 will include:

1. Making a decision involving the physical/structural component or to continue installing the temporary barriers. Of the options available, we could do nothing or we could construct some permanent facilities. If permanent

facilities were to be constructed, the existing SWP and CVP operation rules are assumed to be continually in effect.

- i. The "Do Nothing" option would assume the continual use of existing SWP and CVP operational rules, including the permitted limit for SWP diversions at CCF, plus continued installation of temporary barriers in the south Delta
- ii. The decision involving the physical/structural component would include dredging specified in the project, extensions of 24 agricultural diversions, and select from one of the following options:
 - a. One gate at the Head of Old River
 - b. Three gates, Head of Old River, Old River near Tracy, and Middle River;
 - c. Four gates, Head of Old River, Old River near Tracy, Middle River, and Grant Line Canal;

Stage 2 will include a decision either to continue with existing SWP and CVP operation rules or to select a method of changing the operational rules to meet project objectives. Because DWR and Reclamation have committed to present a second environmental document for Stage 2, the range of potential operational rules remains open. If the Stage 1 decision is to continue the installation of the temporary barriers, proceeding with Stage 2 and addressing both the physical/structural component and the operational component would be considered.

DFG-22

The SDIP Stage 2 operational decision may allow more water transfers through the Delta during the months of July–September because the unused permitted pumping capacity will be greater than under current conditions during these months of relatively low fish density. The potential effects on fish entrainment, Delta salinity, and other environmental resources that might be affected by these potential transfers were evaluated. The differences among direct effects, indirect effects, and cumulative effects are difficult to define and may not have been resolved at the Integrated Water Operations Forum & Framework (IWOFF) meetings. However, based on the best available information, DWR and Reclamation have attempted to estimate the effects of transfers. Section 5.1 of the SDIP Draft EIS/EIR describes these potential impacts as indirect project effects, which must be mitigated.

DFG-23

DWR and Reclamation intend to construct the gates so that they are compatible with actions that may become necessary in the future, such as the operation of

low head pumps. Should low head pumps be needed at these gates, additional compliance with CEQA, NEPA, CESA, and ESA may be required.

DFG-24

The text has been revised per your comment.

DFG-25

The costs of all aspects of the project monitoring and science needs are included in the overall costs presented in Table ES-3 of the SDIP Draft EIS/EIR. Additional monitoring and science needs are included in the ASIP to meet the requirements of CESA. The costs of these additional science needs are presented in Table 2-5 of the SDIP ASIP.

DFG-26

The text has been revised per your comment.

DFG-27

The text has been revised per your comment.

DFG-28

Typographical error acknowledged. No beneficial impact on green sturgeon is expected.

DFG-29 and DFG-30

Please see Master Response E, *Reliance on Expanded Environmental Water* Account Actions for Fish Entrainment Reduction.

DFG-31

Improvements to the fish barrier at the head of Old River are expected to improve the exclusion of fish from Old River relative to the exclusion provided by the existing temporary structure. However, the head of Old River gate will be operated primarily to exclude juvenile fall-run Chinook salmon. Therefore effects on steelhead, splittail, striped bass, and delta smelt have been characterized as "No Impact" in the summary of impacts Table 4-1 of the SDIP Draft EIS/EIR because there are no analytical tools to determine the extent of benefit to these fish.

DFG-32

The summary text describes changes in deliveries for CVP and SWP for both 2001 and 2020 conditions, while Figure 4-2 of the SDIP Draft EIS/EIR is specific for 2020 conditions. However, the values in Figure 4-2 are difficult to match with the tables in Section 5.1. The values in Figure 4-2 are exports on the left, but deliveries on the right. This has been clarified in the revised Figure 4-2.

DFG-33

Please see Master Response P, Effects of the South Delta Improvements Program on State Water Project Article 21 Deliveries.

DFG-34

The EWA fish protection actions were developed for each water year type in the baseline condition CALSIM simulations. These same protections (level of pumping during 1-week periods of protection) were then held constant for each alternative. Therefore, the entrainment effects during weeks of simulated protection were held constant, and entrainment impacts would occur only in weeks without specified protections. The entrainment impact analysis considered only the increased pumping simulated each month outside these specified EWA protection periods.

DFG-35

Your comment is correct. The affected tables in Section 5.1 should be labeled as "B–A".

DFG-36

Please see Master Response P, Effects of the South Delta Improvements Program on State Water Project Article 21 Deliveries.

DFG-37

The current SDIP-proposed mitigation for Stage 2 effects includes the modification of operations, either through the long-term EWA or through the Avoidance and Crediting System described in Section 6.1 of the SDIP Draft EIS/EIR. No other mitigation is proposed at this time.

DFG-38

The sentence on page 6.1-27 has been changed as suggested.

DFG-39

Adults from each system were estimated from escapement and then juveniles estimated from assumptions in Table 6.1-2 of the SDIP Draft EIS/EIR. San Joaquin adult Chinook salmon production is shown in Table J-20. Runs cannot be distinguished in the salvage data; therefore we have no information to directly separate entrainment. The assumption that the Chinook salmon juvenile salvage is dominated by San Joaquin River fish is based on the correspondence of the high salvage density with periods of greatest trawling catches at Mossdale. It appears that a large fraction of the San Joaquin River fish end up in the CVP and SWP salvage.

DFG-40

Pleas see Master Response E, *Reliance on Expanded Environmental Water* Account Actions for Fish Entrainment Reduction.

DFG-41

The text in SDIP Draft EIS/EIR Section 6.1, Fish, has been modified to state that DWR and Reclamation would implement a mitigation monitoring program consistent with the CALFED Science Program.

DFG-42

Acknowledged. Required mitigation measures are non-discretionary.

DFG-43

The text has bee corrected.

DFG-44 and DFG-45

The limitations on interpreting Particle Tracking Module (PTM) results for fish entrainment assessment are described in the text of Appendix J. The differences between passive and active fish behavior are described. Actual fish behavior is not well understood, so the particle tracking provides only a partial evaluation of fish entrainment risk.

DFG-46

The delta smelt adult equivalent calculations are used only as an example for interpreting entrainment impacts. Before delta smelt loss calculations could be included in the four-pumps agreement procedures for estimating mitigation for entrainment losses, additional investigation and quantification of delta smelt life history (e.g., growth and mortality rates) would be required.

DFG-47

Sentence on page J-34 was removed as suggested.

DFG-48

These mitigation measures are introduced as suggestions of changes in operations and facilities that could be used in addition to EWA actions. However, the current SDIP proposed mitigation for Stage 2 effects includes the modification of operations, either through the expanded long-term EWA or through the Avoidance and Crediting System described in Section 6.1 of the SDIP Draft EIS/EIR. No other mitigation is proposed at this time. The improvement in salvage handling and transport is regarded as a potentially effective mitigation measure that may be proposed in the Stage 2 decision document. These are currently being studied by DWR, Reclamation, and DFG.