

**Bay Delta Conservation Plan
Substantive Changes in Public Draft (Dec 2013) since Revised Administrative Draft (March
-May 2013)**

Section	Section Title	Page Number(s)	Summary of Change
<i>Chapter 3: Conservation Strategy</i>			
3.1.3	Adaptive Management and Monitoring Program	3.1-4 thru 6	<ul style="list-style-type: none"> • Clarified process to modify conservation measures to meet goals and objectives to be consistent with Section 3.6
3.2.4.2.2	Existing Conservation Lands	3.2-25 thru 27	<ul style="list-style-type: none"> • Updated GIS data with newly available datasets • Updated classification status of open space conservation lands according to protection and resource management objectives
3.2.5	Landscape Linkages	3.2-28 thru 32	<ul style="list-style-type: none"> • Added section to describe how the conservation measures provide spatial and temporal habitat connectivity and linkages for breeding, feeding, or roosting • Added Table 3.2-3 to outline the linkages, species benefitting, and applicable conservation measures
3.3.1	Role of the Biological Goals and Objectives in Plan Implementation	3.3-2 3.3-3 3.3-3 thru 4 3.3-6 thru 35 3.3-38	<ul style="list-style-type: none"> • Updated to clarify the process and integration of the adaptive management strategy to be consistent with the USFWS/NMFS Five Point Policy. • Clarified the role biological goals and objectives in determining plan compliance. • Separated the description of the biological goals and objective development process, and structure into separate sections. • Updated Table 3.3-1 by: <ul style="list-style-type: none"> - adjusting survival goals for FR Chinook and steelhead - adding new habitat objectives for riparian brush rabbit, California blackrail, and giant garter snake - added specific wetland complex requirements for sandhill cranes - deleting one greater sandhill crane objective to replace any abandoned roost sites but enlarging acres of created roost habitat in another objective - replacing longfin smelt population objective with new objective - clarifying/updating numerous other goals and objectives. • Updated references and supporting documentation for the goals and objectives
3.3.6	Natural Community Biological Goals and Objectives	3.3-53	<ul style="list-style-type: none"> • Updated estimates and rationale in Table 3.3-2 (Expected Extent of Conserved Natural Communities in Plan Area with BDCP Implementation) • Deleted Table 3.3-4 (Existing Condition and Estimated Restoration and Protection—Wildlife and Plants)
3.3.7	Species Biological Goals and Objectives	3.3-100 and throughout Tables 3.3-7 and -8 (p.304 and p 337)	<ul style="list-style-type: none"> • Updated references and supporting documentation for the goals and objectives • Clarified, added, deleted, and/or simplified the objectives for a number of goals for the covered species, particularly applicable natural community goals and/or objectives • Clarified conservation strategies for a number of species. • Clarified and/or simplified stressors for a number of species goals and objectives, and added recent research and documentation of the stressor roles • Deleted descriptions and documentation of biological goals and objectives for California least tern (species dropped from coverage) • Updated estimates of the distribution/occurrence of vernal pool crustacean and plant species

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3.4.1	CM1 Water Facilities and Operation	3.4-24 thru 26 3.4-14 thru 23 3.4-26 thru 29	<ul style="list-style-type: none"> • Updated Decision Tree section on how decisions are made. • Clarified that the permits may include operational flow criteria related to high-outflow scenario • Update real-time operations section to clarify roles and procedures • Updated description of water facility construction to reflect optimized alignment
3.4.2	CM2 Yolo Bypass Fisheries	3.4-57 thru 58	<ul style="list-style-type: none"> • Replaced Table 3.4.2-1 for operations of Fremont Weir gated channel and other concerns
3.4.3	CM3 Natural Communities Protection and Restoration	3.4.3-7 thru -26 3.4.3-42 thru -57	<ul style="list-style-type: none"> • Added section on overlap of Plan Area and other HCPs • Updated landscape linkages section • Updated Table 3.4.3-1 (Nat. Communities siting and reserve design requirements) • Added brush rabbit objective and California black rail and giant garter snake goals and objectives, and expanded two greater sandhill crane objectives
3.4.4 thru 3.4.21	CM4 – CM21	General changes	<p>For most CMs (CM4-CM21)</p> <ul style="list-style-type: none"> • Updated background information on overall rationale, and potential benefits by species in response to fish and wildlife agency comments • Updated effectiveness monitoring, and biological goals and objectives in tables for each CM • Updated the related monitoring actions table for each CM, including timing and duration of monitoring, and clarification of how the conservation measures advance the biological goals and objectives by species • Important updates to CM21 to clarify its implementation
3.4.4.4	CM4: Adaptive Management and Monitoring	3.4.4-22 thru -33	<ul style="list-style-type: none"> • Added tidal restoration feasibility section • Updated Table 3.4.1-1 for CM4 schedule
3.4.4.35	General Enhancement and Management Actions; Aquatic and Emergent Wetland Natural Communities; Cultivated Lands; Managed Wetlands	3.4.4-101 thru -108 3.4.4-110 thru -112 3.4.4-129 thru -130 3.4.4-131 thru -136	<ul style="list-style-type: none"> • CM11 - added Recreation and Levee Maintenance sections to General Enhancement and Management Action section <ul style="list-style-type: none"> - Added greater sandhill crane and California black rail habitat enhancement and management details to Aquatic and Emergent Wetland Natural Communities section - Added Emergency Spillway Associated with Glanville Tract Forebay operation section as it relates to managed habitat for greater sandhill crane. - Updated the enhancement and management actions in the Managed Wetlands section, including new actions related to several species
3.4.22	Conservation Strategy	Table 3.4.1-1 Pages 3.4.22-10 thru -11	<ul style="list-style-type: none"> • Updated AMM descriptions • Added AMMs for protection of natural communities and covered species, and recreation • Additional details are described below under Appendix 3C
3.4.23	Resources to Support Adaptive Management	3.4-354 thru 357	<ul style="list-style-type: none"> • New section describing supplemental resources available for adaptive management, including: <ul style="list-style-type: none"> Inter-annual adjustments to operations Water supply sharing Redirected funding to maximize CMs Enhanced environmental flows Supplemental adaptive management fund
3.6	Adaptive Management and Monitoring Program	3.6-19 thru 25	<ul style="list-style-type: none"> • Revised details of adaptive management and monitoring programs and procedures regarding decision making, roles and responsibilities, and decisions subject to the process
<i>Chapter 4: Covered Activities</i>			
Chapter 4	Covered Activities and Associated Federal Actions	4-8 thru 21	<ul style="list-style-type: none"> • Added updates to project facility design, including facility footprint estimates, water conveyance sizes, and clarified construction activities. • Added detail for intermediate forebay, expanded Clifton Court

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		4-34 thru 37 4-42 thru 70 4-70 thru 74 7-74 thru 96	Forebay, concrete batch plants, barge landing locations, electric power delivery systems, material storage site specifics, additional details on operation procedures, and levee modification and construction details. <ul style="list-style-type: none"> • Added details regarding CM2 schedule, implementation plans, phases • Clarified CM3-CM1 implementation • Added new section and details on recreation facilities in the reserve • Clarified CM12-CM2 implementation
<i>Chapter 5: Effects Analysis</i>			
5.2.7	Effects Analysis for Covered Fish	5.2-17 thru 21 5.2-37 thru 47	Added clarification updates to: <ul style="list-style-type: none"> • Table 5.2-5 (Models Used in the Effects Analysis for Covered Fish Species), and • Table 5.2-8 (Biological Objectives for Covered Fish Species and their Assessment in the Effects Analysis)
5.5	Effects on Covered Fish	5.5-1 thru 2 5.5.1-5 thru 14 5.5.1-15 thru 25 5.5.1-25 throughout depending on species	<ul style="list-style-type: none"> • Added explanation of effects ranking process • Added details regarding BDCP effects based on updated modeling data (flow effects) • Added details regarding the Fall X2 Decision-Tree Process as it relates to delta smelt conservation and management, including recent monitoring results and uncertainties • Added details on reverse flows • Added details on effects on salmon survival • Added better/more refined food analysis for aquatic species • Added details on recent research and evaluations for covered species • Outlined the potential or expected effects of the BDCP on the covered species, based on updated modeling results. • Added details regarding the Spring Outflow Decision-Tree Process for guiding initial spring outflow conditions to benefit longfin smelt.
<i>Chapter 6: Plan Implementation</i>			
6.1.1	Performing Implementation Actions	6-2 thru 6	<ul style="list-style-type: none"> • Updated implementation schedule of other stressor conservation measures (Table 6-1) and natural community restoration (Table 6-2). • Added Post-Permit Term Implementation section
6.2	Interim Implementation Actions	6-12 thru 21	<ul style="list-style-type: none"> • Updated status of interim conservation actions.
6.3	Planning, Compliance, and Progress Reporting	6-21 thru 27	<ul style="list-style-type: none"> • Updated planning, compliance, reporting, and review requirements
6.4	Regulatory Assurances, Changed Circumstances, and Unforeseen Circumstances	6-28 thru 30	<ul style="list-style-type: none"> • Added section on obligations of the parties pursuant to regulatory assurances section
6.4.2	Changed Circumstances Related to the BDCP	6-30 thru 45	<ul style="list-style-type: none"> • Add new changed circumstances: drought, disease, and vandalism of reserves
6.4.4	BDCP Relationship to Significant Future Projects or Governmental Regulations	6-45 thru 47	<ul style="list-style-type: none"> • Added section on BDCP relationship with significant new projects or regulations
<i>Chapter 7: Implementation Structure</i>			
7.1	Roles and Responsibilities of Entities Involved in BDCP Implementation	7-3 thru 4	<ul style="list-style-type: none"> • Added Table 7-1(BDCP Governance Decision-making) which outlines key decisions, who makes them, who has input, and which are subject to dispute review process described in Sect. 7.1.7
7.1.6	Adaptive Management Team	7-15 thru 16	<ul style="list-style-type: none"> • Clarified voting vs. non-voting members of the Adaptive Management Team. • Updated various sections for consistency with updated Adaptive Management Program in Section 3.4

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7.1.7	Elevation and Review of Impl. Decisions	7-16 thru 17	<ul style="list-style-type: none"> Clarified the dispute resolution process for the Authorized Entity Group, Permit Oversight Group, and their member agencies
7.2.8	Coordinating with Local Governments, Delta Protection Commission, and Other Public Agencies	7-26	<ul style="list-style-type: none"> Clarified coordination process with local conservation plans, and identified uncertainties still needing resolution
<i>Chapter 8: Cost and Funding Sources</i>			
8.2.2.3	Financial Assumptions	8-4 thru 9	<ul style="list-style-type: none"> Clarified cost estimates in both undiscounted and discounted dollars
8.2.3	Conservation Measure Costs	8-11 thru 52 8-78 8-81 thru 82	<ul style="list-style-type: none"> Updated all costs to reflect new optimized alignment and to adjust costs of some conservation measures in response to CDFW comments Clarified data, methods, and assumptions for costs of conservation measure implementation. Adjusted land acquisition cost estimates and assumptions for CM1-CM22 Clarified property tax and assessment revenue replacement impacts and adjusted cost estimates
8.3	Funding Sources	8-64 thru 77 8-78 8-81 thru 82 8-109 thru 111 8-111	<ul style="list-style-type: none"> Reorganized so that funding sources are grouped by participating state and federal water contractors, state government, federal government, and other funding. Within each section funding sources are generally listed in order of magnitude. Added discussion of the Supplemental Adaptive Management Fund Adjusted funding strategy by reducing commitment of Federal government and increasing commitment of State government (2% difference) via water bonds. Added consideration of potential new Federal authorizations for future appropriations to support BDCP Added table comparing federal funding sharing for other large-scale habitat restoration programs
8.4	Funding Assurances		<ul style="list-style-type: none"> Clarified actions available in response to potential state or federal funding shortfall
<i>Chapter 9: Alternatives to Take</i>			
9.1.4.1	Relationship Between the Take Alternatives and the Alternatives in the EIR/EIS	9-10 thru 11	<ul style="list-style-type: none"> Clarified how the EIR/EIS alternatives were modified to incorporate the same operational conditions criteria included in the BDCP Proposed Action (e.g., high-outflow scenario, south Delta operations)
9.2	Descriptions of Take Alternatives	9-17 9-27 thru 28 9-30 thru 32	<ul style="list-style-type: none"> Updated Table 9-4 to include an expanded Clifton Court Forebay component to several Take Alternatives. Clarified that Take Alt D is a dual bore tunnel Revised the levels of take or benefits from conservation measures Included greater specificity of expected effects from Take Alternative F (Through-Delta)
9.3	Methods of Analysis	9-35 thru 44 9-45 9-48 thru 49 9-50 thru 183 depending on species 9-198 thru 199	<ul style="list-style-type: none"> Provided additional details for assessing the extent that Take Alternatives would meet the BDCP goals Changed focus of seismic risk analysis to modeled differences in water supplies under no-earthquake and post-earthquake conditions across urban and agricultural sectors Added Resource Impact mechanisms (Table 9-9) for assessing differences between the Take Alternatives and the BDCP Re-assessed expected incidental take for each Take Alternative relative to the BDCP proposed action for each covered species and effect mechanism Revised assessment of Take Alternative F (through-Delta) Updated the cost practicability analysis, with new cost data
<i>Appendices</i>			
Appendix 1A	Covered Species Evaluation		<ul style="list-style-type: none"> Dropped California least tern as a covered species because the two breeding colonies in the Plan Area would not be affected by covered activities

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Appendix 2A	Species Accounts		<ul style="list-style-type: none"> Updated species accounts with recent data, relevant to the Plan Area and BDCP covered activities
Appendix 2B	Vernal Pool Mapping		<ul style="list-style-type: none"> Clarified modifications made to the vernal pool complex mapping process, based on review team assessments of the initial 2009 analysis
Appendix 3A	Background on Conservation Measures		<ul style="list-style-type: none"> Added a table describing the weighting factors for assessing the suitability of areas for tidal marsh restoration activities
Appendix 3C	Avoidance and Minimization Measures		<ul style="list-style-type: none"> Added detailed processes for the beneficial use provisions for RTM Clarified design process to minimize effects on covered species such as vernal pool crustaceans and California tiger salamanders Clarified survey and mitigation implementation procedures for unavoidable effects on covered terrestrial species or habitat such as requirements for mitigating the removal of nesting, roosting and foraging habitat for avian species (particularly raptors, cranes) Clarified and updated protocols for SWPPP and SPCC Clarified protocols for powerline installations to minimize avian effects
Appendix 3C	Avoidance and Minimization Measures		<p>Added AMMs for:</p> <ul style="list-style-type: none"> selenium management, geotechnical studies design standards and building codes, transmission line guidelines noise abatement, hazardous material management mosquito management, construction site security fugitive dust control, and recreation
Appendix 3D	Monitoring Actions	CM1, 5, 6, 7, 8, 10, 11, 12, 14, 16, 17, 19, 21	<ul style="list-style-type: none"> Revised and updated compliance and effectiveness monitoring actions to be more specific where feasible Replaced the effectiveness monitoring action for effects of intake operations on fish species, with several more specific measures.
Appendix 5B	Entrainment		<ul style="list-style-type: none"> Updated modeling results and added modeled scenarios to account for the decision-tree process
Appendix 5C	Flow, Passage, Salinity, and Turbidity		<ul style="list-style-type: none"> Updated modeling results and added modeled scenarios to account for the decision-tree process Added bypass flow rules for CALSIM modeling.
Appendix 5D	Contaminants		<ul style="list-style-type: none"> Updated modeling results for mercury, methylmercury, and selenium with the added modeled scenarios accounting for the decision-tree process, assessing future conditions with and without BDCP.
Appendix 5E	Habitat Restoration		<ul style="list-style-type: none"> Updated modeling results of habitat suitability and benefits to covered fish species from habitat restoration under the added modeled scenarios accounting for the decision-tree process, assessing future conditions with and without BDCP. Deleted discussion of specific Sacramento splittail benefits
Appendix 5F	BioStressors		<ul style="list-style-type: none"> Added clarification of Adaptive Management Team responsibilities for assessing biostressors on Chinook and other covered fish species, particularly losses due to predation and intake operations
Appendix 5G	Fish Life Cycle Models		<ul style="list-style-type: none"> Deleted information and results from two models: <ul style="list-style-type: none"> -OBAN for SR Chinook -State Space Multistage Delta Smelt Updated modeling results for the added modeled scenarios accounting for the decision-tree process
Appendix 5J	Effects on Natural Communities, Wildlife, Plants		<ul style="list-style-type: none"> Replaced habitat loss tables for covered activities by species and natural communities
Appendix 8A	Implementation Costs Supporting Materials		<ul style="list-style-type: none"> Added section for EIR/EIS mitigation costs not counted elsewhere (moved from body of Ch. 8)
Appendix 9A	Economic Benefits of the BDCP and Take Alternatives	Table 9.A 2 Table 9.A 8	<ul style="list-style-type: none"> Updated water quality costs and benefits
Appendix 9B	Take Alternative Cost Estimation	Table 9.B 11 Table 9.B 12	<ul style="list-style-type: none"> Update costs of the proposed action to reflect the new optimized alignment

Acronyms and Definitions

AMM- Avoidance and Minimization Measure

CM – Conservation Measure

X2 –X2 is the distance in kilometers from the Golden Gate Bridge to the location where tidally averaged bottom salinity is 2 parts per thousand (ppt), also referred to as the mixing zone. It is a measure of western Delta salinity.

HCP- Habitat Conservation Plan

RTM – Reusable tunnel material

SWPP-Stormwater pollution prevention plan

SPCC- Spill prevention, containment and countermeasure plan