

SUBSTANTIVE: Staff Errata Table

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Page	Line	Comment or Requested Change
Executive Summary		
Chapter 1: Introduction		
18	33-37	Say that the Delta Plan will be an adaptive management plan; revised and updated through an adaptive management approach
17	38	Strike "the Delta Reform Act;" and replace with "SBX7 1"
9	17	Change sentence to: "Today the Delta is many things to many people, and is universally regarded in "crisis" because people have not yet been able to find balance among competing demands for the Delta's resources"
12	21	Change to: timely and better informed decisions
14	graphic	3rd bullet should read exported from the delta
15	24	Change enforced to increased
15	26-34	Clarify that the uncertainty occurs in dry years (and below normal) when the conflicts are the greatest. Line 32 after "water supply uncertainty for agencies that use water conveyed through the Delta" add "(comma) particularly in drier years when ecosystem conflicts are greatest." Also revise line 34 to say...becoming increasingly reliant on delta exports that, by contract, were intended to be supplemental supplies.
17	34	Parenthetical statement should read: 20 percent reduction in statewide urban per capita water use by 2020
Chapter 2: The Delta Plan		
35	29-30	Change "ensure the appropriate use of science in Delta decision making." to "to provide the best possible unbiased scientific information to inform water and environmental decision making in the Delta."
37	Table 2-1	Table caption recommended wording: "Agencies with Responsibilities in the Delta. Agency name (left) and summary of responsibilities (right)."
	Table 2-1	Move "(for example, Department of Transportation, State Parks, Boating and Waterways, State Lands Commission, California Environmental Management Agency, and others)" under "Other state agencies" on the left and edit the column on the right to read "Various roles or responsibilities in the Delta relevant to the agency's concern"
	Table 2-1	Missing the USGS
37	Table	Edit Description of SWRCB in Table 2-1 Required to develop and adopt water quality objectives to protect beneficial uses and public trust resources in the Delta. Enforce water rights and ensure proper allocation/diversion of water in and out of Delta, including the role of the Delta Watermaster. Delete: Develop and set water quality standards consistent with state and federal law to maintain desirable aquatic species in the Delta.
38	11-12	Change "uses adaptive management" to "an adaptive management plan"
44	2	Replace title with "Delta Plan Requirements by Water Code Section"

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49	Text box: Performance Measures in the Delta Plan	Strike "Development of informative and sensitive performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended performance measures are provisional and subject to refinement as time and resources allow." Replace with "Development of informative and meaningful performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop and track performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended output and outcome performance measures listed below are provided as examples and subject to refinement as time and resources allow. Final administrative performance measures are listed in Appendix C and will be tracked as soon as the Delta Plan is completed."
Chapter 3: A More Reliable Water Supply for California		
67	4	... politics of conflicts over
68	Box, last sentence	...making water supplies <u>deliveries</u> more predictable and reliable.
68	14	...potential for <u>improving long-term</u>
69	14	...needs from <u>improved water efficiency and</u> a greater diversity
70	18-20	This section provides an overview of where California's water comes from and how it is used, the state's vast water supply infrastructure system, <u>and the implications of climate change on the California's water supplies.</u> foundational water law and policies, and the role of the Delta in California's water supply.
76	2-4	This section discusses major <u>the legal foundations of</u> for California water policy, explains California's complex system of water rights, and <u>describes the state's new water policies and priorities, including reduced reliance on the Delta, established by the Delta Reform Act.</u> notes that with the Delta Reform Act, the State has taken yet another step in better defining its overall management goals and priorities.
78	32-36	This section provides an overview of the water infrastructure in the Delta watershed and how water is used, <u>followed by a description of water project operations in the Delta, and the associated challenges and conflicts associated with these.</u> The section concludes with a discussion of the importance of improving the flexibility of project operations, through improved conveyance, storage, and water management, in achieving the coequal goals.
91	2-7	Insert: <u>This section describes the role that local and regional water supply development plays in improving the California's water supply reliability and provides an overview of the state laws and the trends in water use and water supply development that are reshaping the state's water needs. This section concludes with a discussion of groundwater management and information needs that impede the achievement of the coequal goals.</u>
72	12-13	On average, about half of this water <u>is used by surface vegetation for transpiration;</u> evaporates; is used by surface vegetation for transpiration or
73	13	...agricultural and urban water needs <u>demands.</u>
75	26-27	Because the Delta <u>watershed provides some portion of the water supplies for</u> approximately 25 million Californians will some of their water supply and

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76	32	...scarcity (See sidebar: California's Complex Water Rights System).
76	34-43	<p>Suggested edits:</p> <p>For example, some many of California's stream systems are "overappropriated," at least in dry years (NRC 2012), meaning. This means that <u>if everyone who held a water right (riparian, pre-1914 and post 1914 appropriative) on a stream fully perfected and exercised their rights, then the total volume (or "face value") of the water rights (riparian, pre-1914, and post 1914 appropriative) would exceed the available surface supply</u> ies that are available, if all the right holders fully perfected and exercised their rights. In the Delta watershed, the SWRCB estimates <u>that the face value of just the post -1914 appropriative water rights that have been issued is 245 MAF (SWRCB 2011). The face value of post 194 water rights under permits and licenses in the Delta watershed at 245 MAF (SWRCB 2011). About 60% of these rights, or about 147 MAF, are for hydropower which is considered a non-consumptive (pass through) water use.</u> By comparison, the average annual unimpaired flow in the Delta watershed (between 1921 and 2003) was 29 MAF, with a maximum of 73 MAF, <u>the wettest year on record (DWR 2007b), which includes rights issued for non-consumptive hydropower that constitute more than 60 percent of the total face value.</u></p>
77	1-8	<p>New paragraph</p> <p><u>While the face value of water rights represents potential diversions, actual water use in many stream systems is frequently far less than the face value of water rights due to restrictions in permits and licenses, operating restrictions, physical and economic limitations, non-consumptive uses of water (such as for power generation), and reuse of water. However, the real extent to which streams systems are overappropriated is not known because water users under pre-1914 and riparian water rights have not been required, until recently, to submit annual reports accounting for their diversions. In 2009, the State adopted statewide water diversion reporting requirements (Water Code section 5100 et seq.) and in 2010 the SWRCB adopted regulations requiring online reporting of water use by all water rights holders, including all surface and groundwater users. In addition, there is limited information available to the State on consumptive use or the number of times that water is reused within a stream system.</u></p> <p><u>DWR provides estimates of applied water and consumptive use of applied water in the California Water Plan update 2009 (DWR 2009). In 2005 (a 127 percent precipitation year), the estimated quantity of applied water in the delta watershed was 15.4 MAF. The estimated quantity of consumptive use of applied water in the Delta watershed was 9.2 MAF.</u></p> <p>Delete footnotes 10 and 11.</p>
80	5	450 <u>160</u>
84	11	California Aqueduct... <u>Ironically Notably, DWR continues to project a 2-3 MAF deficit in groundwater pumping from overdrafted aquifers (DWR 2009). A more detailed discussion of groundwater overdraft is provided later in this chapter.</u>
85	36	...once promised <u>(see discussion on page 72 of how California's water is used).</u>
85	31-34	<p>Conflicts over water use are compounded by SWP and CVP contracts that, <u>while intended to be a supplemental water supply to augment local water sources, now create an expectation that more water should be exported than can be consistently delivered/pumped. Overall, exports from the Delta have been rising over the past four decades. However, SWP contract amounts were originally based on assumptions that additional dams and conveyance facilities were to be constructed at a later date.</u></p>

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85	36-40	...contract amounts once promised. <u>In fact, the CVP has fulfilled 100 percent of its contract obligations only three times since 1990, and the SWP has delivered 100 percent of its contract amounts only twice (Reclamation 2011b; DWR 2010b). Overall, SWP and CVP deliveries of have averaged about 60 percent of the total original contracted amounts on an annual basis (Cooley et al. 2009). The 2007-2009 drought, in combination with court-ordered and regulatory restrictions on State and federal Delta pumps, significantly reduced water exports to SWP and CVP contractors. According to DWR, SWP exports deliveries are now expected to average 60 percent of maximum contract amounts in future years, down from 66 to 69 percent estimated in 2005 (DWR 2010b)</u>
86	16-19	Additionally, north North-to-south water transfers across the Delta can be an important tool for <u>improving</u> water supply reliability but require the use of SWP or CVP facilities and, as such, as subject to the regulatory constraints on Delta exports. Simply put, Because Delta pumping windows of opportunity are increasingly filled by contract deliveries, excess capacity for water transfers is increasingly hard to come by.
86	22	Because it bears repeating that on an annual basis California's <u>annual</u> precipitation is incredibly variable, The the past expectation that each year...
86	40	Can all add to the <u>export</u> system flexibility...
87	12	Improved operation flexibility will, consistent with ecosystem restoration, can result
88	13	...has compromised groundwater storage in many regions of the state;
88	37	...meet current and projected water <u>needs demands</u> for SWP and CVP water deliveries exported exports from the Delta watershed.
89	graphic	Box #2 Goal: Improve water supply predictability <u>reliability</u> for south of
91	2	Need to insert language that describes what this section covers.
91	14	Delete footnote 15 and add to text. ...desalination. <u>DWR has identified 27 "resource management strategies" that water suppliers should consider when expanding their local and regional water conservation and water development programs</u>
92	38-39	...breadth of local agencies engaging in water management makes it difficult, if not impossible, to monitor and account for the significant new amounts of water supplies and <u>increased water efficiency that is being implemented and dramatically reshaping water supply reliability in California. statewide progress in implementation.</u>
93	46-47	...region can vary among-between wet, average and and critically dry hydrologic conditions
95	18-19	Importantly, for those who prepare them, <u>Urban Water Management Plans and Integrated Regional Water Management Plans regional plans</u> appear to be working. As a result of these requirements efforts and increased irrigation efficiency, the amount of water needed to meet California's future urban and agricultural <u>needs demands</u> has changed.
98	7	...those needs demands
99	15-16	In 2007, the California Legislature passed a law requiring Since 2008, DWR, SWRCB and the Department of Public Health to study the development of a coordinated have been working <u>to develop a coordinated database to track the...</u>
100	30	..management planning, <u>including requirements for adoption of urban and agricultural rate structures that promote water efficient practices and conservation.</u>
101	32	...or in percentage of water used, from the
109	22	...reducing actual or and projected
83	26	Strike '20' and insert '17'
83	27	Strike '8' and insert '11'
83	28	Strike '2' and insert '39' ; strike 'approximately 500' and insert 'more than 600'

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84	4	Strike 'an agricultural industry that supported'
84	17	Strike 'consideration' and insert 'legal obligation'
84	19	Strike 'in accordance with' and insert 'according to'
84	21	Strike 'players in regulation of' and insert 'entities that regulate'
84	31	Strike 'play increasing roles in' and insert 'to regulate'
85	32	Strike 'compounded by' and insert 'further complicated due to original' ; strike 'create an expectation that more' and insert 'assumed greater water export quantities'
86	31	Strike 'seasons during' and insert 'months within'
93	22	Insert 'Planning' after 'Management' ; strike 'in 1990 and updated through AB 1404 (2007) and SBX7-7 ; insert '(SBX7 7)' after '2009'
95	14	Strike all text after 'requirements.' ; Strike all of lines 15, 16, and 17. (These citations are wrong).
108	42-43	Strike both lines
108	42-43	Insert "Development of informative and meaningful performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop and track performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended output and outcome performance measures listed below are provided as examples and subject to refinement as time and resources allow. Final administrative performance measures are listed in Appendix C and will be tracked as soon as the Delta Plan is completed."
109	1-4	Strike lines 1-4
Chapter 4: Protect, Restore, and Enhance the Delta Ecosystem		
120	3	The Delta will provide more predictable and reliable water supplies
133	10-11	Revise to read: The earlier that these objectives can be revised and implemented, the earlier
143	43	Strike "The 2012 proposal to change striped bass fishing regulations in the Delta is an"
143	44	Strike "example of such a recommendations."
148	11	Strike "When habitats are restored at...."
148	12	Strike "alternative elevations, sufficient scientific rational must be provided."
148	23	Strike "other than habitat restoration"
148	24	Insert "other than habitat restoration" after "4-4"

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156	16-21	<p>Strike “Development of informative and sensitive performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended performance measures are provisional and subject to refinement as time and resources allow.”</p> <p>Replace with “Development of informative and meaningful performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop and track performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended output and outcome performance measures listed below are provided as examples and subject to refinement as time and resources allow. Final administrative performance measures are listed in Appendix C and will be tracked as soon as the Delta Plan is completed.”</p>
117	First line	Strike “The Legislature has defined” – Replace “t” in the word “the” with “T” – Strike “as state policy for the Delta”
Chapter 5: Protect and Enhance the Unique Cultural, Recreational, Natural Resources, and Agricultural Values of the California Delta as an Evolving Place		
199	1-9	<p>Strike “Development of informative and sensitive performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended performance measures are provisional and subject to refinement as time and resources allow.”</p> <p>Replace with “Development of informative and meaningful performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop and track performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended output and outcome performance measures listed below are provided as examples and subject to refinement as time and resources allow. Final administrative performance measures are listed in Appendix C and will be tracked as soon as the Delta Plan is completed.”</p>
Chapter 6: Improve Water Quality to Protect Human Health and the Environment		
210	2	Revise to read: This section provides an overview of factors that influence water quality in the Delta and existing water
210	Footnote 26	The “303(d) list” is the list of impaired and threatened waters (stream/river segments, lakes) that states have identified
213	Flow Objectives paragraph, last sentence	economic impacts and effects on other uses, such as water supply and agricultural use, physical constraints, among others.
218	2-3	Edit sentence to read: Water moving through the Delta contributes some part of the drinking water supplies for more than 25 million...

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223	4 (in text box)	Appendix A) was used for water quality decision making in the total maximum daily load (TMDL) process to improve dissolved
223	Step 3, line 5 (text box)	(3) algae and oxygen-demanding substances from the San Joaquin River upstream of the
207	36-37	Similarly, organic carbon in drinking water sources can result in cancer causing contribute to harmful disinfection byproduct formation, but However, for ecosystem purposes, organic carbon is beneficial and is increased by wetland creation. (which may be part of ecosystem restoration) and provides beneficial nutrients for the Delta food web.
208	2	...in fish species, that represents ...
208	34-35	...relocating drinking water intakes may be the best approach to improve water quality for human health.
219	Text box	...reacts with naturally occurring bromide found in source water.
226	11	micrograms per liter ppb (add ppb to the list of abbreviations)
228	13	Delete entire sentence.
233	26-31	Strike "Development of informative and sensitive performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended performance measures are provisional and subject to refinement as time and resources allow." Replace with "Development of informative and meaningful performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop and track performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended output and outcome performance measures listed below are provided as examples and subject to refinement as time and resources allow. Final administrative performance measures are listed in Appendix C and will be tracked as soon as the Delta Plan is completed."
Chapter 7: Reduce Risk to People, Property, and State Interests in the Delta		
245	19	Delete the sentence: The Provisions that follow fulfill these requirements.
246	37	Revise to read: ...for reliable water supplies (See Chapter 3 for a discussion of water supply reliability).
273	4	Include statute location/number, with "SB 5"
276	12-14	Per Chris Steven's recommendation, in consultation with Dan Siegel, they recommend that RR R9 be rewritten as follows: "The legislature should consider statutory and/or constitutional changes that would address the state's potential flood liability, including changes that would give state agencies the same level of immunity with regard to flood liability as federal agencies have under federal law."
255	46	Delete the word "standard" and replace with "guidance".
256	4	Delete the word "standard" and replace with "guidance".
256	6	Delete the word "standard" and replace with "guidance".

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256	7	Delete the word "standard" ONLY where it appears as "Fifteen districts comply with this standard" and replace with "guidance".
256	11	Delete the word "standard" and replace with "guidance".
256	12	Delete the word "standard" and replace with "guidance".
256	13	Delete the word "standard" and replace with "guidance".
267	17-18	Please delete the following sentence, as it's redundant: "This case also held Caltrans liable for some of the damages."
278	21-26	Strike "Development of informative and sensitive performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended performance measures are provisional and subject to refinement as time and resources allow." Replace with "Development of informative and meaningful performance measures is a challenging task that will continue after the adoption of the Delta Plan. Performance measures need to be designed to capture important trends and to address whether specific actions are producing expected results. Efforts to develop and track performance measures in complex and large-scale systems like the Delta are commonly multiyear endeavors. The recommended output and outcome performance measures listed below are provided as examples and subject to refinement as time and resources allow. Final administrative performance measures are listed in Appendix C and will be tracked as soon as the Delta Plan is completed."
Chapter 8: Funding Principles to Support the Coequal Goals		
Glossary		
309		Under the term "water export", replace the term "transfers to another to meet" with "transfers to another hydrologic region to meet".
Appendix G		
To be replaced with newer version from Chris/Jim.		