

**ADDITIONAL COMMENTS
FROM AGENCY REPRESENTATIVES
RECEIVED BETWEEN 2/12/98 AND 2/13/98**

(FROM USGS, HAYES, YAGER, YOUNG, AND MORE FROM USCOE)

(Filename: SRTMORE.wpd)

A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
Chapter 7	1			Greg Young, CALFED			
Chapter 8	2			Greg Young, CALFED			
1	3	general		Steve Yaeger, CALFED	Do we analyze impacts of Tehama-Colusa canal extension?		
23	4	General	General	Hayes, CALFED	Sure would have been nice to see the appendices. Even a figure of each of the alternatives would have been good. Where is mention of the three refined alternatives that the IDT came to resolve on and presented to BDAC recently?		
1	5	1-6	Rt Col, 2 nd para	O'Leary, USCOE	Suggested rewrite: Levees were first constructed in the Sacramento-San Joaquin Delta during the mid-to-late 1800's when settlers began to turn tidal marshes into agricultural land. After levees were constructed, the natural settling of both the levee fill material and levee foundation material required the continual addition of levee fill to maintain protection. The subsidence of Delta island interiors (loss of peat soils due to oxidation) has resulted in lower land levels. The top of the levees stay relatively constant, but the lower land elevations result in increasingly higher levees. There is a growing concern.....		

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4	6	2-9	2 nd para under WQ Program	Steve Yaeger, CALFED	After the last sentence, "The actions do not involve new regulations" add ", but focus on incentives to accomplish Program objectives."		
5	7	5-4	Col 1, para 3	Hayes, CALFED	This section is very vague and changes to the existing conveyance through the Delta includes many other features not listed, including pumping plants, screened channels, changed timing of flows, etc.		
1	8	6-1.	summary box	Greg Young, CALFED	add a summary bullet for WUE and Water transfers "The water use efficiency program, including water transfers, improves water supply reliability and may result in improved water quality. Water transfers may result in changes in amount and location of beneficial water use."		
5	9	6-5			Emmaton is in the western and not in north delta, although the comment about it makes sense. It's hard to justify how water quality conditions would be worse at Emmaton but better at Jersey Point, however. If the answer is that models runs say so, then a problem with the model may be more likely. The reason for concern is that tides, not river flows, control flows and mixing in this area of the delta.		

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2	10	6-7	Water Use Efficiency	Greg Young, CALFED	delete existing two paragraphs and replace with "The water use efficiency program has the potential to generate significant water savings. This can have both beneficial and adverse impacts to surface water management. Water may become available for allocation to other beneficial uses, including meeting existing shortages and groundwater overdraft locally or elsewhere, meeting future increased demands, and meeting ecosystem needs. These savings may also provide water quality improvements and potentially modifications to reservoir releases and instream flow timing. The program could adversely impact beneficial uses that exist on current inefficiencies."		
3	11	6-7	Water Transfers	Greg Young, CALFED	delete last sentence of 1 st paragraph "Operating the conveyance..."		
4	12	6-7	Water Transfers	Greg Young, CALFED	add after 1 st sentence in 1 st paragraph the following "These impacts may be different depending on conditions of the buyer or seller."		
5	13	6-7	Water Transfers	Greg Young, CALFED	delete 2 nd paragraph		
31	14	7-1	summary box	Greg Young, CALFED	add bullet "Potential benefits of the water use efficiency program, including water transfer include improvements in water quality, providing opportunities to modify flow and diversion timing. Water transfers can provide water direct or indirect ecosystem benefits."		

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6	15	7-3	Table 7.1-1	Hayes, CALFED	Construction of the intertie has a misleading benefit. For options that include the south Delta barriers, the facility intakes will essentially have the same entrainment (i.e. draw from the same water source). Only if the barriers are not in place do the facilities have potentially different entrainment due to the draw of primarily San Joaquin water into the Tracy intake.		
7	16	7-3	Table 7.1-1 General	Hayes, CALFED	The symbols are misleading on many of the alternatives since the alternatives are not defined well enough to determine if the benefit is significant or not...and many times it depends on how or when the action is implemented....		
38	17	8-1	summary box	Greg Young, CALFED	add bullet "The water use efficiency program could improve the long-term viability of some agricultural lands, but may indirectly result in conversion of some crop mixes. Water transfers may result in some temporary land fallowing during critically dry periods."		
39	18	8-3	Water Quality, WUE, Water storage subheading	Greg Young, CALFED	add new paragraph at end "Water use efficiency improvements in agriculture can help support the long-term viability of production agriculture in some regions, providing a beneficial impact to rural communities and regional economies. Water transfers, to the extent they may involve temporary land fallowing or groundwater substitution, could adversely impact local economies."		
48	19	10-1	1 st para after the bullets, sent 3 & 4	Steve Yaeger, CALFED	Change "conductive" to "conducive". There should be a reference within that paragraph.		

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49	20	10-1	2 nd sent under 10.1.1	Steve Yaeger, CALFED	What does "agricultural sector of the economy" mean?		
50	21	10-2	table 10.1-1 (Delta)	Steve Yaeger, CALFED	Insert "change in" after "substantial" in the 1 st sent? Insert "and aquatic" after "terrestrial" in the 2 nd sent.		
51	22	10-2	table 10.1-1 (SWP)	Steve Yaeger, CALFED	What does the 2 nd sent. mean?		
3	23	1-12	para 2, sent. 3	Steve Yaeger, CALFED	put the sentence in a more positive light		
2	24	1-12	para. 2, sentence 2	Steve Yaeger, CALFED	insert "among some stakeholders" in between "concern" and "that"		
5	25	2-11	Watershed Manag. section	Steve Yaeger, CALFED	make a global change of Watershed Management Coordination to Watershed Management Strategy.		
6	26	2-11	1 st para under 2.2.3.6, last sent.	Steve Yaeger, CALFED	Change the words "water yield" at the end of the sentence to "base stream flows within the system."		

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7	27	2-11	4 th para under 2.2.3.6, 1 st sent	Steve Yaeger, CALFED	change "Program" to "CALFED Agency"		
1	28	2-12	Col 2, Bullet 5	Hayes, CALFED	Not sure if "decrease velocity" will apply uniformly to the Delta since only some channels will be modified.		
8	29	2-12	3 rd para under 2.2.3.7, 1 st sent	Steve Yaeger, CALFED	Change "will be" to "has been"		
9	30	2-13	right before 2.2.4	Steve Yaeger, CALFED	Is this an appropriate place to describe what's being done for 404(b)(1) process?		
10	31	2-13	2 nd para under 2.2.4.1	Steve Yaeger, CALFED	After "four programs" insert "including the water transfer and watershed management strategy"		
2	32	2-14	Col 1, Para 10	Hayes, CALFED	We currently have screens in the south Delta at Banks and Tracy. The proposed screens would replace them at a new location.		
12	33	2-14	1 st sent. under Config 1C	Steve Yaeger, CALFED	Insert "permitted" in between "the" and "diverison". Replace "capacity of existing exports" with "capability during periods with less adverse impact on fish"		

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11	34	2-14	2 nd sent. under Config 1B	Steve Yaeger, CALFED	After "Configuration 1A" insert "providing greater efficiencies"		
3	35	2-15	Col 1, bullet 4	Hayes, CALFED	The new Clifton Court Forebay intake structure is integrated with a screen and low head pumping plant. The alternative here does not seem up to date with what was coming out of the IDT as an optimized 1B or 1C. The CCF pump station is not mentioned anywhere in the EIR as a project component in the South Delta. It is also considered that a combined intake for both the Tracy and CCF intakes will be constructed. An intertie with this option is essential to supply water to the Tracy plant. If two facilities are operated, and an intertie is considered, additional control facilities must be considered for hydraulic control of the two potentially separate systems. This is common to all alternatives that reference 1B and 1C components		
13	36	2-15	2 nd sent. under Config 2A	Steve Yaeger, CALFED	Insert "builds on Alternative 1 and" after "Configuration 2A"		
14	37	2-15	4 th sent. under Config 2A	Steve Yaeger, CALFED	Insert "c" right after "1" to make it 1c		
4	38	2-16	Col 1, bullet 4	Hayes, CALFED	Need to include reference to Upstream Migrant fish ladder or lift that is located just downstream of the pumping plant. The ladder or fish lift is common to all alternatives that use through-Delta screen (not an isolated canal).		

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16	39	2-16	bullet under Levee	Steve Yaeger, CALFED	Insert "on the Mokelumne River" in between "conveyance" and "and"		
15	40	2-16	1 st sent. under the 1 st bullet under WQ Prog	Steve Yaeger, CALFED	Insert "and" before "Tracy" and remove "and Contra Costa Water District"		
17	41	2-16	5 th bullet under Water Storage	Steve Yaeger, CALFED	Remove the 5 th bullet which begins with "Breach McCormack..."		
19	42	2-17	1 st para under Water Storage under Config 2D	Steve Yaeger, CALFED	Insert "(East)" after "Mokelumne River Floodway"		
18	43	2-17	1 st bullet under Water Storage	Steve Yaeger, CALFED	At the end of the bullet after "tributaries", insert "and potential extension and upgrade of existing conveyance facilities on the west side of the Sacramento Valley"		
25	44	2-18	last para. starting with Mokelumne	Steve Yaeger, CALFED	Insert "(west)" in between "Floodway" and "and"		

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21	45	2-18	para. right before Config 2E	Steve Yaeger, CALFED	After "Modifications" and before the comma, insert "(except flow and stage control measures on Middle River, Grant Line Canal, and Old River)"		
23	46	2-18	1 st bullet under Water Storage	Steve Yaeger, CALFED	same as comment 18		
22	47	2-18	2 nd sent. under Config 2E	Steve Yaeger, CALFED	Insert "screened" in between "10,000-cfs" and "intake"		
20	48	2-18	2 nd bullet on the page	Steve Yaeger, CALFED	After "flooded habitat", remove ", such as" and replace it with "; possibly portions of"		
24	49	2-18	2 nd bullet under Tyler Isl. Aquatic section	Steve Yaeger, CALFED	Insert "and" in between "elevation" and "to". Insert "onto Tyler Island" in between "flow" and the semicolon		
26	50	2-19	table 2.2.4-3	Steve Yaeger, CALFED	Under the Water Storage column, insert "200 TAF In-Delta" in between the "Upstream (SJ)" and the "Off-Aqueduct"		
28	51	2-19	1 st sent. under Config 3A	Steve Yaeger, CALFED	Insert "including the water transfer and watershed management strategy" after "four programs"		

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27	52	2-19	3 rd bullet	Steve Yaeger, CALFED	Insert "and conveyance" right after "flooded habitat"		
29	53	2-20	1 st bullet under WQ Program	Steve Yaeger, CALFED	insert "possibly" in between "and" and "Contra"		
30	54	2-20	1 st bullet under Water Storage	Steve Yaeger, CALFED	insert "and pumping plant" in between "intake" and "at Hood"		
32	55	2-20	1 st bullet under Config 3B	Steve Yaeger, CALFED	same as comment 18		
31	56	2-20	2 nd bullet under Water Storage	Steve Yaeger, CALFED	remove entire bullet		
39	57	2-21	right before Config 3H	Steve Yaeger, CALFED	insert another bullet in between the bullet starting with "Relocation..." and the Configuration 3H paragraph. It should read "Potential water service facilities for South Delta areas and adjacent counties."		
33	58	2-21	2 nd sent under Water Storage	Steve Yaeger, CALFED	insert "(except flow and stage control measures on Middle River, Grant Line Canal, and Old River)" in between "1C" and the comma		

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34	59	2-21	2 nd bullet on page, 1 st sent	Steve Yaeger, CALFED	insert "for salmon migration" after "River" and before the period		
35	60	2-21	3 rd bullet on page	Steve Yaeger, CALFED	insert "and pumping plant" in between "intake" and "at Hood". Insert "or Freeport" after "at Hood" and before the semicolon		
36	61	2-21	4 th bullet on page	Steve Yaeger, CALFED	remove entire bullet		
37	62	2-21	5 th bullet on page	Steve Yaeger, CALFED	insert "or Freeport" after "Hood" and before "to"		
38	63	2-21	6 th bullet on page	Steve Yaeger, CALFED	insert "or Freeport" after "Hood" and before "to"		
2	64	2-29	last sentence of 2 nd full paragraph	O'Leary, USCOE	Suggested rewrite:and will address flood damage reduction in the watersheds upstream of CALFED's Levee System Integrity Program in the Delta.		
40	65	2-31		Steve Yaeger, CALFED	Check the sections starting with "Alternative with...", "Etc.??", and "Associated Concerns"		

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1	66	6-10	Fig 6.1.1-1 Table 6.1.1-1	USGS	The figure and table are misleading: existing models are not well-enough calibrated to justify the flow numbers. For the figure, flow directions may be justified, but the number of significant figures is certainly not justified. For the table, the flow and velocity figures for low flows are even more shaky. In addition, if the point of these numbers is to talk about scour velocities, tidal conditions during yearly maximum spring tides (near winter and summer soltices) should be the periods of greatest concern.		
2	67	6-10 & 6-11	Fig 6.1.1-1 Table 6.1.1-1	USGS	The average flow measure needs to be unambiguously defined. If it is net flow over the tidal cycle, the numbers should approximate a mass balance. If not, then the number might be RMS tidal flow, which does not have a direction.		
3	68	6-11	Table 6.1.1-1	USGS	It's hard to imagine mean water levels varying by feet within the delta. Only tenths of a foot differences within reaches will drive flows of thousands of cfs. Although MLLW is not a level datum, it does not vary by feet within the delta..		
4	69	6-15		USGS	Average annual load is not equal to sum of dailies/365.		
6	70	6-39	Water Use Efficiency	Greg Young, CALFED	top of page, 1 st full sentence - add "and/or smaller diversions and <i>potential for a redistribution of reservoir releases.</i> "		

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7	71	6-39	Water Use Efficiency	Greg Young, CALFED	Modify rest of paragraph after 1 st sentence on page to read "Increased water recycling could result in additional water supplies. Since a large portion of dry season flows in streams below reservoirs result from releases for downstream users, reductions in demand could result in reduced dry season stream flows. Though, this would depend on reservoir operations and instream flow requirements. The potential exists for the water use efficiency program to result in increases in stream flows during very low flow periods through on-farm improvements and water transfers, and would have negligible adverse impacts on moderate and high flows."		
8	72	6-39	Water Use Efficiency	Greg Young, CALFED	Make new paragraph starting with sentence halfway through the 1 st paragraph "The water use efficiency program would result in ..."		
9	73	6-39	Water Use Efficiency	Greg Young, CALFED	2 nd paragraph on page. Modify first sentence as follows "No quantitative demand reduction targets have been identified, though anticipated results are included in the Water Use Efficiency Component Technical Appendix."		
10	74	6-41	Alt 2	Greg Young, CALFED	Last paragraph, left column, 1 st sentence "...ground disturbance and will consist of temporary increases ..."		

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12	75	6-46	add "Water Use Efficiency and Water Transfer" subheading under All Alts heading	Greg Young, CALFED	add the following under a new Water Use Efficiency subheading "Impacts to water quality in the Bay region are expected to primarily be beneficial as a result of reduced urban runoff and increased conservation. These actions would decrease the introduction of degrading contaminants into surface waters. Salinity levels in recycled water supplies may create adverse impacts."		
13	76	6-53	Water Use Efficiency	Greg Young, CALFED	2 nd paragraph, modify 1 st sentence "Recycling... could result in reduced loading of <i>sediments</i> , salts, and other constituents to waterways and the Delta. (<i>Delete rest of sentence</i>)"		
14	77	6-53	Water Use Efficiency	Greg Young, CALFED	2 nd paragraph - delete everything after 1 st sentence (starting with "Some recycling ..."		
15	78	6-59	Delta Region - Water Use Efficiency	Greg Young, CALFED	2 nd paragraph, modify 1 st sentence to read "Water use efficiency ... across more demand, <i>to offset groundwater overdraft, or to increase instream flows</i> , with less impact felt by users."		
16	79	6-59	Bay Region - Water Use Efficiency	Greg Young, CALFED	delete 2 nd sentence in 1 st paragraph (right hand column). <u>Modify</u> 4 th sentence to read "During ... more demand with <i>potentially</i> less impact felt by others." <u>Modify</u> last sentence to read "Water use efficiency could <i>marginally</i> reduce the volume of wastewater generated, <i>but is not expected to</i> cause local reduction in water ..."		

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17	80	6-61	Sac Region - add WUE subheading under All Alts heading	Greg Young, CALFED	under a new subheading add "the impacts of the water use efficiency program on water supply reliability would be similar to those discussed for the Delta region. Additionally, water use efficiency improvements may allow for modifications to be made in the timing and amount of reservoir releases made for agricultural or urban uses. Timing changes would benefit fish and aquatic ecosystems."		
41	81	6-64	table 6.2-1	Steve Yaeger, CALFED	Under the Sac River Region, San Joaquin and SWP, why are the impacts significant and mitigable but beneficial? The categories are confusing.		
18	82	6-65	Water Use Efficiency	Greg Young, CALFED	right hand column - delete last sentence "Similar impacts..."		
19	83	6-84	Bay Region - Water Use Efficiency	Greg Young, CALFED	change term "agricultural" in first sentence to "urban".		
20	84	6-86	new All Alts heading	Greg Young, CALFED	add heading just before start of last paragraph "Ecosystem Restoration Program" to create "All Alternatives" heading with the rest of these as sub-headings.		
21	85	6-87	Water Use Efficiency	Greg Young, CALFED	2 nd paragraph sentence beginning with "But in some cases..." change term "third parties" to " <i>local groundwater users</i> ".		
22	86	6-87	Water Use Efficiency	Greg Young, CALFED	3 rd paragraph, 1 st sentence, modify as follows "As irrigators turn toward <i>some of the</i> more efficient methods..."		

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23	87	6-87	Water Use Efficiency	Greg Young, CALFED	last partial sentence on page, remove term "treating" from sentence.		
24	88	6-93	summary table	Greg Young, CALFED	add bullet "The water use efficiency program is expected to reduce erosion from agricultural lands."		
42	89	6-94	table 6.3-1 (Delta section)	Steve Yaeger, CALFED	Under Alt 1A under the Delta under the Conversion of Ag Soils section, the box should be a filled in circle. Why is Alt 3 beneficial under the Channel Erosion and Sedimentation section? Why is Alt 3 significant under the Levee Susceptibility section?		
43	90	6-94	table 6.3-1 (Sac and San Joaquin sections)	Steve Yaeger, CALFED	Remove the Subsidence from Peat Oxidation section under Sac River. Why are the levels of impacts the way they are under the Levee section for Sac River? Why is the impact not significant under Alt 1A for the Channel Erosion section in the San Joaquin?		
8	91	7-20	Col 2, para 2	Hayes, CALFED	The referenced impacts to Snodgrass or minimal since a new channel is being considered instead of using Snodgrass. I thought that the use of this channel for conveyance was discarded a long time ago. A new parallel channel above Snodgrass is the correct water conveyance option.		
9	92	7-20	Col 2, para 3	Hayes, CALFED	Flow into the channel correctly describes the attraction to the backside of the screen or pump station, but additional species should be added including splittail and longfin smelt. False weir ladders, lifts, and other fish transport actions should be mentioned here along with their uncertainty of success....		

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10	93	7-21	Col 1, para 1	Hayes, CALFED	Not clear at all on meaning of "entrainment of Sacramento River fish would increase"? Does that include all of alternative 3 and not all of 2 alternatives?		
11	94	7-22	Col 1, para 4	Hayes, CALFED	Entrainment of fish would occur, but it should be mentioned that any new diversion for the new reservoirs would be screened. If west side irrigators use this water during opportune times and forgo diversions from the river then, the entrainment could even be less in some cases.		
32	95	7-22	new All Regions, All Alternatives heading prior to section 7.1.1	Greg Young, CALFED	Need to add summary of benefits from water use efficiency and water transfers. See text on page 7-47 for these issues.		
12	96	7-33	Col 2, bullet 3	Hayes, CALFED	Relocation to Suisun Bay has an assumed benefit relative to Delta diversions. Depending on time of the year, it may not be advantageous to be in the Suisun Marsh area due to seasonal diversions there either. There may other reasons to be there that have a lot less to do with entrainment.		
13	97	7-33	Col 2, para 2	Hayes, CALFED	Diversion facilities provide habitat for predatory fish much like a tree does in the river. This is not necessarily bad. However, the draw of water to the screens from the diversion and the associated concentration of juvenile fish near the screens is the real problem.		
14	98	7-38	Col 2, para 3	Hayes, CALFED	The benefit of intertie in IC is questionable as noted in my comment from table 7.1-1. Only if there are no barriers is this a potential benefit.		

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15	99	7-38	Col 2, para 4	Hayes, CALFED	I would think that as far as vegetation goes, it has <i>as much</i> to do with stage as it does with the changed circulation patterns. This is evidenced by the change in weeds that grow more in stagnant or lake-like water conditions. A good example is the increased production of duck weed and Egaria.		
16	100	7-39	Col 1, para 2	Hayes, CALFED	Change "addition" to "replacement". The existing 'screens' are actually louver screens at both facilities.		
17	101	7-40	Col 1, para 3	Hayes, CALFED	I don't think the description of alternatives is current. The use of Snodgrass should not be considered. A parallel channel is a simple "fix" to 2A, 2B and 2D and therefore makes these options look less attractive than they already are.		
18	102	7-40	Col 2, para 4	Hayes, CALFED	Under alternative 2, some eggs and larvae that could pass through the screens and low head pumping plant would not necessarily die or be lost to the system. Since these diversions are open back to the Delta, many could survive. Afterall, we have a great striped bass fishing in San Luis Reservoir and the aqueduct due to many getting through the pumps! The greatest loss would be from alternative 3, when all E&L would be lost to an isolated system and down the aqueduct.		
19	103	7-41	Col 1, para 1	Hayes, CALFED	Qualify the benefits to adult fish. Actually if these adult fish are migrating U/S, this alternative has the most significant adverse effect (false attraction and passage). The screens would protect resident adult fish like adult delta smelt however to some degree.		
20	104	7-41	Col 2, para 3	Hayes, CALFED	Is the reduction of entrainment due to flexibility due to storage in those options? Explain a bit more.		
21	105	7-41	Col 2, para 4	Hayes, CALFED	Again, mention splittail and longfin smelt as potentially attracted too.		

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22	106	7-43	Col 1, para 2	Hayes, CALFED	How can impacts due to sediment be compared to alternative 1? Where is it intended to supply the sediment from the isolated facility? I always assumed that the sediment would be removed from the system and sold for topsoil to the high bidder.....		
33	107	7-54	summary box	Greg Young, CALFED	add bullet "The water use efficiency program may result in adverse impacts to some habitats benefitting from current inefficiencies as a result of reduced surface water runoff. Changes in crop mix as a result of increase efficiencies and water transfers may reduce the amount of wildlife friendly crops."		
45	108	7-55 and 7-56	table 7.2-1	Steve Yaeger, CALFED	Recommend removing "loss or degradation" qualifiers throughout the table. Are the Loss or Degradation of Wetland & Riparian Communities and the Increase or Improvement of Wetland & Riparian Habitats essentially the same?		
34	109	7-58	Water Use Efficiency	Greg Young, CALFED	add sentence to end of paragraph "Changes in crop mixes as a result of increase efficiencies and water transfers may reduce the amount of wildlife friendly crops (rice, pasture) and may increase the acreage of less wildlife conducive crops (vineyard, orchard)."		
35	110	7-75	new All Alternatives heading prior to Bay Region	Greg Young, CALFED	move paragraphs 2, 3, 4, 5 from p. 7-71 to this new heading. Delete paragraphs 3,4 once moved. Insert language for water use efficiency and water transfers as presented on page 7-76		

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36	111	7-76	All Alternatives	Greg Young, CALFED	delete this section based on comment above.		
37	112	7-78	add new All Alternatives heading to bottom of page after Alternative 3 subheading	Greg Young, CALFED	Under this heading add "Beneficial and adverse impacts of the water use efficiency program, including water transfers are similar to those discussed for the Delta region."		
40	113	8-13	Bay Region - All Alternatives	Greg Young, CALFED	add paragraph at end of subsection "Water transfers may allow water to be imported into the Bay Region, augmenting existing supplies and providing future water supply reliability. This can beneficially benefit the regional economy.		
41	114	8-14	Sacramento River Region - All Alts	Greg Young, CALFED	delete existing paragraph and replace with "Water use efficiency impacts are similar to those discussed for the Delta region. Increased levels of water transfers within or out of the region could have significant beneficial or adverse impacts, depending on the magnitude, timing, source of water, and pathway used to transport the water. Revenues generated by water transfers could augment local economies if the transfer proceeds are spent within the region. The transfer of water within the basin can help improve the reliability of water for local lands or communities that are water short."		

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42	115	8-14	San Joaquin region - all alts	Greg Young, CALFED	replace paragraph with "Impacts associated with water use efficiency improvements and water transfers are expected to be similar to those described for the Sacramento region."		
43	116	8-14	SWP and CVP region - all alts	Greg Young, CALFED	modify 1 st sentence to say "SWP and CVP that discussed for the <i>Sacramento Region</i> and Bay Region."		
44	117	8-15	mitigation strategies	Greg Young, CALFED	remove the 2 nd bullet on right-hand column. "Minimize the amount..."		
45	118	8-17	summary box - water transfer bullet	Greg Young, CALFED	modify water transfer bullet to state "Water transfers <i>could</i> adversely affect and <i>could</i> benefit production..."		
46	119	8-19	table 8.2-2 (all sections)	Steve Yaeger, CALFED	Why are the impacts not significant under Alt 1a and 1b for the Change in Ag Water Use section?		
46	120	8-24	WUE	Greg Young, CALFED	3 rd paragraph in left column, 3 rd sentence. Modify to "This would result ..., <i>but possibly not enough to offset the loss of unskilled irrigators.</i> "		
47	121	8-34	Delta region - alt 1	Greg Young, CALFED	move last 2 full paragraphs and paragraph that wraps onto next page onto page 8-36 under a new "All Alternatives" heading for the Delta region (prior to the Bay Region).		

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A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
48	122	8-37	All Regions/All Alts - Water Use Efficiency	Greg Young, CALFED	remove 1 st paragraph under this subheading. Leave 2 nd paragraph as is.		
53	123	8-41	Delta region - All Alts	Greg Young, CALFED	after 2 nd paragraph add "The water use efficiency program may help improve the long-term viability of agricultural lands, beneficially impacting agricultural economies. The program is designed to result in the implementation of cost-effective efficiency measures and is not expected to create adverse impacts to production costs."		
52	124	8-41	8.2.3.3	Greg Young, CALFED	Add bullet "Water Use Efficiency. Adoption of water use efficiency improvements in the agricultural sector will continue. Because of water supply, market, and regulatory conditions, many opportunities to improve irrigation efficiency will occur in the next two decades."		
49	125	8-43	Delta region - alt 1	Greg Young, CALFED	delete last 2 paragraphs on page		
50	126	8-43	Delta region - alt 1	Greg Young, CALFED	after above comment, remove 2 remaining paragraphs pertaining to water transfers back to page 8-41 at the end of the "All Alternatives" heading.		
51	127	8-44	Delta region - alt 1	Greg Young, CALFED	delete 1 st full paragraph on this page "Due to minimal ..."		

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A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
54	128	8-45	Sac/SJ river region - All alts	Greg Young, CALFED	2 nd full paragraph, 2 nd sentence - delete "and the Water Use Efficiency Program" language from the sentence.		
55	129	8-46	Sac/SJ river region - alt 1	Greg Young, CALFED	add to end of first partial paragraph "However, the Water Use Efficiency Program is expected to result in implementation of cost-effective conservation measures, though determination of cost-effectiveness may vary for each situation."		
56	130	8-47	SWP/CVP - All alts	Greg Young, CALFED	1 st paragraph, 2 nd sentence - delete "if BMPs are applied to areas outside the Central Valley."		
57	131	8-51	Water Use Efficiency	Greg Young, CALFED	delete last sentence of 1 st full paragraph "This means that..."		
58	132	8-51	Alt 2 and 3	Greg Young, CALFED	move entire 2 nd full paragraph "The water transfers program would generally..." to p 8-152 under "All Alternatives" after "Water Use Efficiency Program" subheading (prior to San Joaquin River region). Add new subheading for "Water Transfers" for this to be placed under.		
59	133	8-53	SWP and CVP - All Alts	Greg Young, CALFED	3 rd sentence, modify to read "The Water Transfer Program <i>potentially</i> would increase ..."		

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A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
26	134	6-114	All Alternatives	Greg Young, CALFED	1 st full paragraph on page. This talks about in-Delta storage and seems out of place, especially if the changes in the above comment are made. Right now, this paragraph follows a discussion of water transfers - move it to more appropriate location		
27	135	6-115	Water use efficiency	Greg Young, CALFED	3 rd paragraph , move this paragraph to next page and insert just before Section 6.3.2.4.		
28	136	6-124	Water Transfers	Greg Young, CALFED	delete 2 nd sentence in 1 st paragraph under this heading "Although...".		
29	137	6-151	Water Use Efficiency	Greg Young, CALFED	delete entire 2 nd paragraph and replace with the 2 nd paragraph under the Water Use Efficiency Program heading on p. 6-141 stating "Additionally, increased ..."		
30	138	6-152	Sacramento/SJ river region - All Alts	Greg Young, CALFED	add new subheading for "Water Use Efficiency, including Water Transfers". Add sentence under this subheading "The water use efficiency impacts are similar to those discussed under the Delta region."		
44	139	6-154	figure 6.6.2-1	Steve Yaeger, CALFED	What does the asterisk mean?		

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A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
60	140	8-110	Water Conservation	Greg Young, CALFED	change reference in paragraph to read "The CALFED Bay-Delta Program Water Use Efficiency <i>Component Technical Appendix</i> provides ..." (Do universal search for this reference throughout this section)		
61	141	8-116	Common Program subheadings - under new All Alternatives heading	Greg Young, CALFED	all of these subheadings (Water Quality, WUE, Levee System, Water Conveyance) should be moved under a new "All Alternatives" heading prior to Alternative 1.		
62	142	8-124	Sac region	Greg Young, CALFED	delete 1 st full paragraph in right-hand column "The CALFED water transfer..."		
63	143	8-128	WUE and wt	Greg Young, CALFED	delete last paragraph under this subheading "the CALFED water transfer program..."		
64	144	8-137	All Regions/All Alts	Greg Young, CALFED	delete this entire section. It is repeated on p. 8-142!!		
65	145	8-140	Bay Region - All Alts	Greg Young, CALFED	make 2 nd sentence "Increased ..." a second paragraph. Modify to read "Increased levels of water recycling <i>expected to result from the water use efficiency program, would potentially have an adverse</i> "		

A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
66	146	8-142	SWP CVP regions - All Alts	Greg Young, CALFED	last paragraph modify sentence to read "Impact to power... water recycling <i>expected to result from the water use efficiency program</i> , are similar to those"		
67	147	8-143	All Regions - All Alts WUE/wt	Greg Young, CALFED	insert sentence at end of paragraph "However, increased levels of water recycling could result in increased treatment processes and greater energy requirements. In addition, distribution systems would be needed to provide recycled water to potential customers."		
68	148	8-173	SWP and CVP - All alts	Greg Young, CALFED	delete the second "All Alternatives" heading and the accompanying paragraph "The impacts of the Ecosystem ..."		
3	149	8-176	Flood Control Impacts Box, third, fourth, fifth bullets	O'Leary, USCOE	The third bullet mentions "large annual costs for construction and maintenance." Does this refer to levee rehabilitation in general? If so, then alternatives 2 and 3, which have setback levees for water conveyance, should note ADDITIONAL costs for construction and maintenance above alternative 1 to account for the difficulties of constructing and maintaining setback levees on soft foundations.		
4	150	8-178	left col, 4 th para	O'Leary, USCOE	Suggested rewrite:because setback levees would be designed to facilitate these tasks.		
5	151	8-178	left col, 6 th para	O'Leary, USCOE	delete "..be slightly improved with the construction of setback levees and improved access, but would.."		

A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
6	152	8-178	left col, 7 th para	O'Leary, USCOE	Suggested rewrite: Increased settlement is expected for levees that could be set back as far as 500 feet from the current levee locations, requiring long construction periods and increased initial maintenance, but is not considered a significant impact if planned as part of construction and monitored over the long term.		
7	153	8-178	left col, last para	O'Leary, USCOE	We know that the benefits and costs of flood control are high, but I don't understand how this is an indicator of the "magnitude and significance of the hydrologic impact of flood control." Please elaborate, or I suggest that you delete this paragraph.		
8	154	8-179	right col, last para	O'Leary, USCOE	The Delta channels were surveyed by the U.S. ARMY, I believe!		
9	155	8-180	right col, 3 rd para, first sen	O'Leary, USCOE	Check date of authorization of CVP - NOT 1993!		
10	156	8-180	right col, 4 th para, 1 st sent	O'Leary, USCOE	Suggest you say "...70 <u>major</u> islands or tracts" because on the next page you mention 76 islands, and I've never seen a consistent number of islands in all the years I've worked on the Delta. Also see comment #12, below.		
11	157	8-181	left col, 1 st para, last sen	O'Leary, USCOE	Rewrite: ... due to mass instability (commonly caused by a combination of subsidence and excess hydrostatic pressure), and 40%...		

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A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
12	158	8-181	right col, last para	O'Leary, USCOE	Here you cite 1,111 miles of levees while on the previous page you cite 1,100. I've seen both numbers used in practice (1,100 is from DWR's popular Delta Atlas, and 1,111 is from a more detailed inventory conducted by DWR), but you might want to be consistent. Here also is the 76 islands and tracts quote (comment 10, above).		
13	159	8-183	left col, last para	O'Leary, USCOE	I'm wondering what "erosion associated with deformation of soft soils(peat or highly organic)" is. Is it any different from "erosion?"		
14	160	8-183	right col, 1 st para, last sen	O'Leary, USCOE	Suggested rewrite: Subsidence of <u>some</u> Delta islands has been measured...		
15	161	8-183	right col, 2 nd para	O'Leary, USCOE	We normally don't refer to "five standards." Suggested rewrite: Levee design standards are defined by levee dimensions, proof of structural stability, the level of protection from a stated flood event, <u>and the urbanization of the land the levees protect.</u>		
16	162	8-185	left col, 1 st full para, last sen	O'Leary, USCOE	Typo? ...and an <u>additional</u> \$60 million...		
17	163	8-185	left col, 2 nd full para. Last sen	O'Leary, USCOE	Typo: <u>\$</u> 410 to \$4,000		

A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
18	164	8-185	left col, 3 rd full para, 2 nd sen	O'Leary, USCOE	Suggested rewrite: When exposed to air, the peat oxidizes into a fine dust, which is easily eroded by wind and water, resulting in land subsidence. Cultivation accelerates the oxidation of peat soils.		
19	165	8-185	left col, 3 rd full para, last sen	O'Leary, USCOE	Here you cite a number of levee failures for the years 1950 to 1986, while at the top of the next column you cite costs for failures from 1980 to 1986. Also, on page 8-192 you cite another number for levee failures from 1967 to 1992. It's ok to have these different citations if they illustrate different points. If they do, I think you may have used the wrong ones in the wrong places. The bottom line point should be that levees used to fail from overtopping, but now they tend to fail from instability.		
20	166	8-185	left col, last para, 1 st sen	O'Leary, USCOE	I don't know the term "floodgate," as it is used here. Maybe a typo?		
21	167	8-185	right col, 1 st full para	O'Leary, USCOE	Typos: need to capitalize " <u>D</u> elta" twice in this paragraph. Maybe do a global search on the document. But I suppose there will be times when you want to keep "delta" lower case.		
22	168	8-185	right col, last para, 2 nd and 3 rd sen	O'Leary, USCOE	Suggest you combine these two sentences: ...Bay Area, however, this flooding...		
24	169	8-186	left col, last sen	O'Leary, USCOE	Typo: check year, it says that by 1984, many levees had been completed. Maybe it's 1884?		

A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
25	170	8-186	right col, 2 nd para, last sen	O'Leary, USCOE	Typo: Hydraulic mining essentially stopped much earlier than 1983. Again, maybe it's 1883?		
23	171	8-186	8.5.1.3, first para	O'Leary, USCOE	Typo: capitalize Coast <u>R</u> anges and Sacramento <u>R</u> iver		
26	172	8-187	left col, 1 st para, 6 th line	O'Leary, USCOE	Typo: overLAND, not overHAND!		
27	173	8-188	left col, 3 rd para, 6 th line	O'Leary, USCOE	Typo: ca n should be can.		
28	174	8-189	left col, 1 st para, 2 nd line	O'Leary, USCOE	Typo: I believe "featured" should be "features."		
29	175	8-189	left col, 1 st para, 5 th line	O'Leary, USCOE	Typo: "income" should be "in some."		
30	176	8-189	left col, 1 st para, last line	O'Leary, USCOE	Typo: "condition" should be "conditions."		
31	177	8-191	right col, 1 st para, 4 th line	O'Leary, USCOE	I think "could" should be changed to " <u>w</u> ould."		
32	178	8-191	right col, 2 nd para, 6 th line	O'Leary, USCOE	The term "protect" is usually used in reference to islands, not channels. For clarity, you might want to change the word "protect" to "delineate" or some other term.		

A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
33	179	8-191	right col, 3 rd para, 4 th line	O'Leary, USCOE	Is it the urbanization RATE that continues to grow, or just urbanization?		
34	180	8-191	right col, 3 rd para, lat sen	O'Leary, USCOE	Rewrite:levees be restored to the geometry and level of protection specified prior to...		
35	181	8-192	left col, 1st para	O'Leary, USCOE	Suggested rewrite: Interior island subsidence due to peat oxidation increases the effective height....		
36	182	8-192	left col, 1st para, line 7	O'Leary, USCOE	Suggested rewrite: In addition, long-term settlement of levees due to ongoing consolidation or migration of foundation soils, especially peat, will reduce the levees' crest elevation.		
37	183	8-192	left col, 1st para, last sen	O'Leary, USCOE	Rewrite: Internal erosion, or piping, is frequently exacerbated by animal.....		
38	184	8-192	left col, 2nd para, last sen	O'Leary, USCOE	This paragraph states that levee failures are half and half overtopping and stability and that the trend is expected to continue. Depending on the failure period you choose, you might come up with 50/50 overtopping and stability failures. But this trend IS NOT expected to continue. What is expected to continue is the frequency of STABILITY failures if maintenance and repair funding allocations remain inadequate.		

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A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
39	185	8-192	right col, last para	O'Leary, USCOE	This paragraph initially states that upstream levee reconstruction could reduce flood stages in the Delta, and then at the end of the paragraph, it states that flood stages would increase in the Delta if the timing of construction isn't right. You might want to check with conveyance folks, but I would think that regardless of the timing, fixing levees upstream would probably increase flood stages in certain reaches of the Delta.		
40	186	8-193	left col, 1st para, last sen	O'Leary, USCOE	Typo? Delete last sentence.		
41	187	8-193	left col, 3rd para	O'Leary, USCOE	Typo: San Andreas Fault.		
42	188	8-193	left col, 3rd para	O'Leary, USCOE	This discussion of the faults in the area of the Delta should include the Coast Range Sierra Nevada Boundary Zone, a fault which may or may not be active, but which is generally agreed to exist. Its location directly through the Delta makes it notable.		
43	189	8-193	left col, 4th para, last sen	O'Leary, USCOE	Is the last sentence true, that the annual cost of flood prevention is expected to remain constant? (Flag for DWR)		
44	190	8-196	left col, 4th para, line 10	O'Leary, USCOE	Rewrite: For example, increased open water in certain parts of the Delta might decrease the pressure of a given flood event on the levee system.		

A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
45	191	8-196	left col, 5th para, line 1	O'Leary, USCOE	Rewrite: The Levee System Integrity Program proposes to fund levee improvements to PL 84-99 criteria, which calls for improved levee geometry and a level of protection to the 100-year flood.		
46	192	8-196	left col, 5th para, line 7	O'Leary, USCOE	This states that improved levees would result in higher maintenance costs. I don't think this is true. If there is no expert to back this up, I would delete the last two sentences of this para.		
47	193	8-196	left col, last para	O'Leary, USCOE	The Levee Program is not proposing levee-associated recreation. DELETE "...and levee associated recreation" and move the "and"		
48	194	8-196	right col, 4th para. last sen	O'Leary, USCOE	This paragraph states that the installation of flow control barriers might provide a "slight improvement in flood control effectiveness." I personally don't see how this could be true. I hope we have an expert who made this determination.		
49	195	8-198	left col, 2nd para, last sen	O'Leary, USCOE	Add "in the north Delta." at the end of the last sentence of the paragraph.		
50	196	8-199	left col, 3rd full para, line 5	O'Leary, USCOE	Typo, should be: "...setback levees on New Hope Tract and Tyler, Staten, and Bouldin Islands. These changes will improve through-Delta water flows, but may impact"		

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A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
51	197	8-200	left col, 3rd para	O'Leary, USCOE	This paragraph doesn't make sense to me, because it talks about the isolated facility not having a significant effect on 100-year flood flows, but then it talks about reducing a 100-year flow to a 20-year event. And then it says that a 20-year event would cause considerable flooding. I don't know about this last statement, but this paragraph needs to be rewritten to illustrate the desired impact.		
52	198	8-200	left col, last para, line 11	O'Leary, USCOE	Add the word "local" after the words "reduce the" and before "flood risk."		
53	199	8-200	right col, 1st para	O'Leary, USCOE	Typo: missing a word at the end of the sentence.		
54	200	8-200	right col, 2nd full para, line 8	O'Leary, USCOE	Add the word "slumps," after the words "rodent holes,"		
55	201	8-200	right col, last para, line 6	O'Leary, USCOE	Rewrite: Increased cracking and fissures result in reduced structural stability. Cracks, fissures, and root voids from decomposing vegetation also give water an easy path to the levee interior, increasing seepage, and potentially resulting in erosion of the interior levee material (piping) and levee instability.		

A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
56	202	8-202	left col, first para, line 3	O'Leary, USCOE	Rewrite the last part of this paragraph: "...significantly and adversely increase seepage on adjacent islands, reduce the stability of levees on adjacent islands, and lead to substantial flooding due to seepage-induced failure. The amount of seepage depends on soil permeability, seepage paths through the levee and its foundation, and the water stage."		
57	203	8-202	left col, 2nd para	O'Leary, USCOE	Rewrite: Island flooding results in significant increases in wind-fetch and wave erosion on "landside" levee slopes. Waterside slopes could also experience significant erosion from increased wind-fetch and waves if the existing levees are not left intact as a barrier.		
58	204	8-202	left col, 5th para, line 1	O'Leary, USCOE	Maybe flood "stages" would be a better term than flood "sizes?"		
59	205	8-202	right col, 2nd para, last sen	O'Leary, USCOE	SUBSTITUTE: "subsidence" for "settlement." Incorrect use of term.		
60	206	8-203	left col, 2nd full para, line2	O'Leary, USCOE	DELETE the word "some"		
61	207	8-203	left col, 2nd full para, line 6	O'Leary, USCOE	DELETE the sentence beginning "since 1982." Yes, levees have degraded, but they have also been improved. We don't have a good handle on the amount of borrow material needed, so just leave it at the DWR estimate for now.		

A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
62	208	8-203	left col, 2nd set of bullets, 2nd bullet	O'Leary, USCOE	DELETE: "Supplement foundation material to" the term "foundation" usually refers to the part beneath the levee, and you cannot supplement it.		
63	209	8-203	left col, last full para, line 2	O'Leary, USCOE	I believe the words "the Delta" should be replaced with the words "Delta channels"		
64	210	8-203	right col, 1st para	O'Leary, USCOE	DELETE last two sentences, starting with the word "With." These two sentences are false. Suggested rewrite: When levees meet PL 84-99 criteria, they may qualify for post-flood federal funding assistance.		
65	211	8-203	right col, last para, line 6	O'Leary, USCOE	after "system integrity by" insert the following: "improving emergency response and therefore"		
66	212	8-204	left col, 3 rd para, line 2	O'Leary, USCOE	Suggestion: Substitute "resources" for the word "importance"		
67	213	8-204	left col, 3 rd para, line 9	O'Leary, USCOE	Substitute the words "The use of a priority system" for the words "These projects"		
68	214	8-204	left col, 3 rd para, last two sent'ces	O'Leary, USCOE	DELETE these last two sentences, starting with "Levee relocation..." They are not true.		
69	215	8-206	left col, last para, line 4	O'Leary, USCOE	Suggestion: substitute the word "facilitate" for the word "support"		

A #	C #	Page Number	Line, Figure, or Table No.	Commentor	Comment	T	P
47	216	8-227	table 8.7-1	Steve Yaeger, CALFED	Why are there no impacts for Alt 1a and 1b under the 1 st 5 "totals" categories?		
69	217	8-229	Water Use Efficiency	Greg Young, CALFED	add sentence to end of paragraph "Increased water recycling in urban areas would result in greater energy input for added treatment and distribution."		
71	218	8-242	Water Use Efficiency Program	Greg Young, CALFED	4 th bullet modify 2 nd sentence "On the other hand, some water recycling ... if they increase <i>treatment and distribution</i> requirements." Also, delete last sentence "Some of the recycling projects ..."		
11	219	6-44,45	Water Use Efficiency	Greg Young, CALFED	delete 1 st two paragraphs.		
70	220	8-241-3	Program Elements	Greg Young, CALFED	All of this stuff should be under an "All Alternatives" heading to be consistent with format in other sections.		
25	221	6-112-113	All Alternatives	Greg Young, CALFED	need to have separate subheadings for each common element to be consistent with format in other portions of the document. These include subheadings for "Water Use Efficiency" and "Water transfers"		