

LTO Action 5

Exhibit 3, Determination of National Environmental Policy Act Adequacy Supporting Documentation

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Contents

 Determinati 	on of National Environmental Policy Act Adequacy Supporting	
Documentat	tion	1-1
	upply	
1.1.1	Trinity River, Sacramento River, Clear Creek, and American River	1-3
1.1.2	Stanislaus River and San Joaquin River	1-4
1.1.3	Bay-Delta	1-5
1.1.4	CVP and SWP Service Areas	1-6
1.1.4.1	Central Coast Region	1-6
1.1.4.2	Tulare Lake Region	1-6
1.1.4.3	South Lahontan Region	1-7
1.1.4.4	South Coast Region	1-7
1.2 Groundy	water	1-8
	on	
1.4 Indian T	rust Resources	1-14
1.5 Water Q	uality	1-15
Contract De	n 5 - Trinity River, Sacramento River, Clear Creek, and American Riverliveries (TAF)n 5 – Stanislaus River and San Joaquin River Contract Deliveries	1-4
	in 3 – Stanislaus River and San Joaquin River Contract Deliveries	
,	n 5 - Bay-Delta Contract Deliveries (TAF)	
	n 5 - Central Coast Region Contract Deliveries (TAF)	
	n 5 - Tulare Lake ^a Region Contract Deliveries (TAF)	
	n 5 - South Lahontan Region Contract Deliveries (TAF)	
	n 5 - South Coast Region Contract Deliveries (TAF)	
	vation-Storage Relationship	
	evation-Storage Relationship	
	verage Electrical Conductivity (in micromhos per centimeter) at Delta	
•	Locations for the Full Simulation Period under Action 5, and	
	From the No Action Alternative	1-15
	verage Electrical Conductivity (in millimhos per centimeter) at Suisur	
	ssment Locations for the Full Simulation Period under Action 5, and	
	From the No Action Alternative	1-17
	verage Dissolved Organic Carbon (in milligrams per liter) at Delta	
	Locations for the Full Simulation Period under Action 5, and	
Difference f	From the No Action Alternative	1-18

Figures

Figure 1. March - February CVP Delivery Total Averages	1-1
Figure 2. March - February CVP Delivery Total Critically Dry Years	1-2
Figure 3. March - February CVP Delivery PSC N Dry and Critically Dry Years	1-2
Figure 4. March - February SWP SOD Ag + MI Dry and Critically Dry Years	1-3
Figure 5. CalSim simulated average Groundwater pumping for Sacramento and San	
Joaquin Basins	1-8
Figure 6. CalSim simulated average Groundwater pumping for Sacramento and San	
Joaquin Basins in Critically Dry Years	1-9
Figure 7. CalSim simulated average Groundwater pumping for Sacramento Basin	
Figure 8. CalSim simulated average Groundwater pumping for Sacramento Basin for Dry	
and Critically Dry years	1-10
Figure 9. Oct - Sept Average Shasta Reservoir Elevation	
Figure 10. Sacramento River Long-Term Average Flow Downstream of Keswick	
Reservoir	1-12
Figure 11. Sacramento Flow Below Keswick	1-12
Figure 12. Oct - Sept Average Trinity Reservoir Elevation	1-13
Figure 13. Trinity River Long-Term Average Flow Downstream of Lewiston Reservoir	1-14
Figure 14. Trinity Reservoir Releases during dry period	1-14
Figure 15. Trinity Reservoir Releases during wet period	1-15

Determination of National Environmental Policy Act Adequacy Supporting Documentation

The resources described below include additional details of the Action 5 NEPA analysis. These resources were identified for further description based on modeling results and their connection with observable changes associated with Action 5, primarily those on the Sacramento River and the Delta.

1.1 Water Supply

March-February CVP Delivery Total Averages

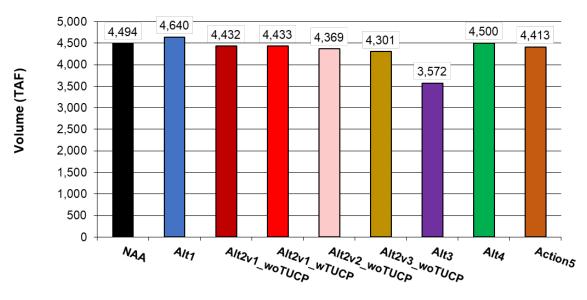


Figure 1. March - February CVP Delivery Total Averages

March-February CVP Delivery Total Critically Dry Years (40-30-30) Totals

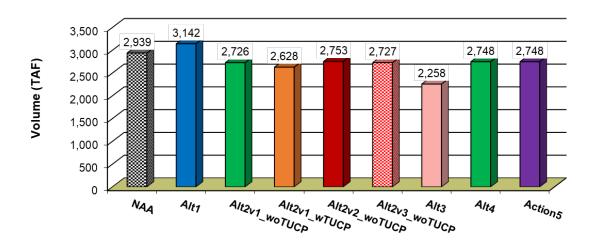
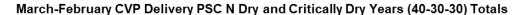


Figure 2. March - February CVP Delivery Total Critically Dry Years



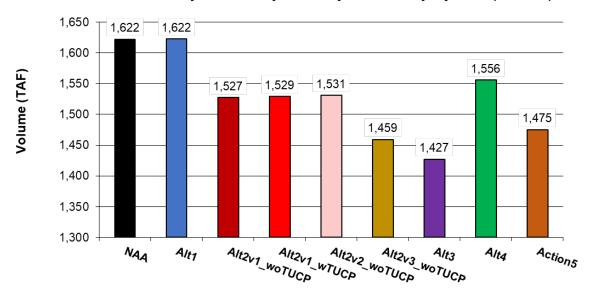


Figure 3. March - February CVP Delivery PSC N Dry and Critically Dry Years

March-February SWP SOD AG + MI Dry and Critically Dry Years (40-30-30) Totals

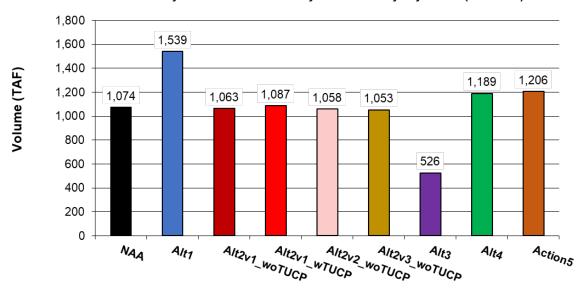


Figure 4. March - February SWP SOD Ag + MI Dry and Critically Dry Years

1.1.1 Trinity River, Sacramento River, Clear Creek, and American River

The table numbering system in this Water supply section corresponds to the numbering system in the 2024 LTO Final EIS.

CVP and SWP deliveries to contractors and water made available for diversion in the Trinity, Sacramento, Clear Creek, and American river watersheds under Action 5 are detailed in Table H-51a. CVP Refuge Level 2 would see reductions of less than 5% in their total deliveries in both average water years as well as dry and critical water years relative to the No Action Alternative. As discussed in Section H.2.2 Changes in CVP and SWP Deliveries, CalSim 3 model output includes minor fluctuations of up to 5% due to model assumptions; approaches and changes 5% or less are considered "similar" to conditions under the No Action Alternative. In addition, minor deviations in CVP Refuge Level 2 deliveries are the result of modeling but do not reflect an intention by Reclamation to deviate from requirements in the Central Valley Project Improvement Act. CVP Settlement Contractor water under average and dry and critical years would see a decrease of 6% and 9%, respectively, relative to the No Action Alternative. CVP M&I water will see increases in both average and dry and critical years, 9% and 8% respectively. CVP Ag water will see slight increases of less than 5% in both average and dry and critical years. SWP M&I water will see the highest increases, with 16% increase for an average year and a 21% increase for dry and critical years.

Table 1-51a Action 5 - Trinity River, Sacramento River, Clear Creek, and American River Contract Deliveries (TAF)

Item	Action 5	No Action Alternative	Difference from No Action Alternative			
Annual Average						
CVP Settlement Contractors	1,724	1,830	-106			
CVP Refuge Level 2	183	183	0			
CVP M&I	112	102	10			
CVP Ag	315	311	4			
SWP M&I	47	40	7			
Dry and Critical Water Years						
CVP Settlement Contractors	1,627	1,779	-152			
CVP Refuge Level 2	175	176	-1			
CVP M&I	91	84	7			
CVP Ag	198	194	4			
SWP M&I	36	30	6			

^a Sacramento River DWR Hydrologic Region

Ag = Agricultural

CVP = Central Valley Project

M&I = Municipal and Industrial

SWP = State Water Project

1.1.2 Stanislaus River and San Joaquin River

CVP and SWP deliveries to contractors in Stanislaus River and San Joaquin River watersheds under Action 5 are detailed below in <u>Table H-51b</u>. As is indicated in <u>Table H-51b</u>, Relative to the No Action Alternative, Action 5 would see no changes in deliveries, expect for CVP Exchange Contractors. CVP Exchange Contractors would see increases of less than 5% in the total deliveries in both average water years as well as dry and critical water years.

Table 1-51b. Action 5 – Stanislaus River and San Joaquin River Contract Deliveries (TAF)

Item	Action 5	No Action Alternative	Difference from No Action Alternative
Annual Average	Action 5	Aiternative	Attenutive
CVP Exchange Contractors	807	806	1
CVP Refuge Level 2	256	256	0
CVP M&I	13	13	0
CVP Ag	478	477	1
SWP Ag	3	3	0
Dry and Critical Water Years			
CVP Exchange Contractors	753	750	3
CVP Refuge Level 2	236	236	0
CVP M&I	10	10	0
CVP Ag	210	210	0
SWP Ag	2	2	0

a San Joaquin River DWR Hydrologic Region

Ag = Agricultural M&I = Municipal and Industrial CVP = Central Valley Project SWP = State Water Project

1.1.3 Bay-Delta

CVP and SWP contract deliveries in the Bay-Delta under Action 5 are detailed below in <u>Table H-5</u>1c. As is indicated in <u>Table H-5</u>1c, Action 5 would increase water supply deliveries for all contract types relative to the No Action Alternative. The largest increase on a percentage basis would be for CVP agricultural water users in dry and critical water years with those increases averaging approximately 11%.

Table 1-51c. Action 5 - Bay-Delta Contract Deliveries (TAF)

Item	Action 5	No Action Alternative	Difference from No Action Alternative			
Annual Average	7.00.01.0		7.3.13.17.11.13.11.13			
CVP M&I	271	265	5			
CVP Ag	45	43	2			
SWP M&I	192	180	13			
Dry and Critical Water Years	Dry and Critical Water Years					
CVP M&I	262	254	7			
CVP Ag	19	17	2			
SWP M&I	122	111	11			

^a San Francisco DWR Hydrologic Region

Ag = Agricultural
M&I = Municipal and Industrial

CVP = Central Valley Project SWP = State Water Project

1.1.4 CVP and SWP Service Areas

This section details changes in contract deliveries under Action 5 to CVP and SWP Service Areas in the central coast, Tulare Lake, South Lahontan, and south coast regions. In addition to the modeled estimates of changes to water supply, water transfers could increase water supplies in drier year types (but they are not included in the CalSim 3 modeling results). Water transfers are the same under all the alternatives, as described in Chapter 3, Section 3.1.4.5, *Water Transfers*.

1.1.4.1 Central Coast Region

SWP contract deliveries in the central coast region under Action 5 are detailed below in <u>Table H-51d</u>. As is indicated in <u>Table H-51d</u>, SWP M&I deliveries would increase on average approximately 11% under Action 5 relative to the No Action Alternative.

Table 1-51d. Action 5 - Central Coast Region Contract Deliveries (TAF)

Item	Action 5	No Action Alternative	Difference from No Action Alternative		
Annual Average					
SWP M&I	40	36	4		
Dry and Critical Water Years					
SWP M&I	24	20	4		

^a Central Coast DWR Hydrologic Region

M&I = Municipal and Industrial

SWP = State Water Project

1.1.4.2 Tulare Lake Region

CVP and SWP contract deliveries in Tulare Lake region under Action 5 and the No Action Alternative are detailed below in <u>Table H-51e</u>. As is indicated in <u>Table H-51e</u>, there would be an increase or no measurable change to water supply deliveries for all contract types under Action 5 relative to the No Action Alternative. The largest increase on a percentage basis would be for SWP agricultural water users in dry and critical water years with those increases averaging approximately 14%.

Table 1-51e. Action 5 - Tulare Lake^a Region Contract Deliveries (TAF)

Item	Action 5	No Action Alternative	Difference from No Action Alternative			
Annual Average						
CVP Refuge Level 2	14	14	0			
CVP Ag	607	583	24			
SWP M&I	77	71	6			
SWP Ag	618	555	63			
Dry and Critical Water Years	Dry and Critical Water Years					
CVP Refuge Level 2	13	12	1			
CVP Ag	250	237	13			
SWP M&I	40	35	5			
SWP Ag	311	272	39			

^a Does not include Friant-Kern Canal or Madera Canal water users

Ag = Agricultural

CVP = Central Valley Project

M&I = Municipal and Industrial

SWP = State Water Project

1.1.4.3 South Lahontan Region

SWP contract deliveries in south Lahontan region under Action 5 and the No Action Alternative are detailed below in <u>Table H-51f</u>. As is indicated in <u>Table H-51f</u>, SWP M&I deliveries would increase on average approximately 13%.

Table 1-51f. Action 5 - South Lahontan Region Contract Deliveries (TAF)

		No Action	Difference from No Action		
Item	Action 5	Alternative	Alternative		
Annual Average	ınual Average				
SWP M&I	257	228	29		
Dry and Critical Water Years					
SWP M&I	163	131	31		

^a South Lahontan DWR Hydrologic Region

M&I = Municipal and Industrial

SWP = State Water Project

1.1.4.4 South Coast Region

SWP contract deliveries in south coast region under Action 5 are detailed below in <u>Table H-51g</u>. As is indicated in <u>Table H-51g</u>, Action 5 would increase water supply deliveries for both contract types. The largest increase on a percentage basis would be for SWP M&I water users in dry and critical water years with those increases averaging approximately 22%.

^b Tulare Lake DWR Hydrologic Region

Table 1-51g. Action 5 - South Coast Region Contract Deliveries (TAF)

Item	Action 5	No Action Alternative	Difference from No Action Alternative		
Annual Average					
SWP M&I	1,269	1,151	118		
SWP Ag	7	7	1		
Dry and Critical Water Years					
SWP M&I	673	586	87		
SWP Ag	3	3	1		

^a South Coast DWR Hydrologic Region

Ag = Agricultural

M&I = Municipal and Industrial

SWP = State Water Project

1.2 Groundwater

March-February Total Sac&SJR Basin Groundwater Pumping Averages

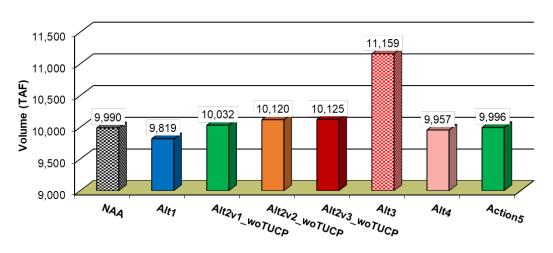


Figure 5. CalSim simulated average Groundwater pumping for Sacramento and San Joaquin Basins

March-February Total Sac&SJR Basin Groundwater Pumping Critically Dry Years (40-30-30) Averages

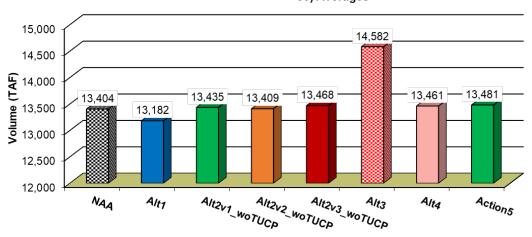
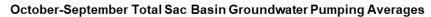


Figure 6. CalSim simulated average Groundwater pumping for Sacramento and San Joaquin Basins in Critically Dry Years



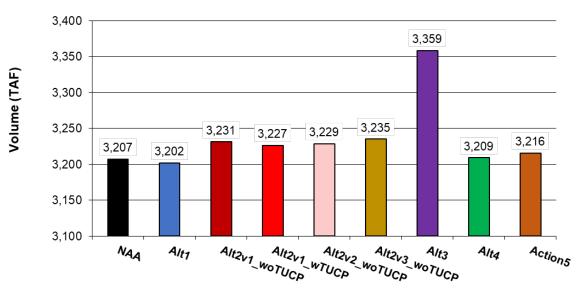


Figure 7. CalSim simulated average Groundwater pumping for Sacramento Basin

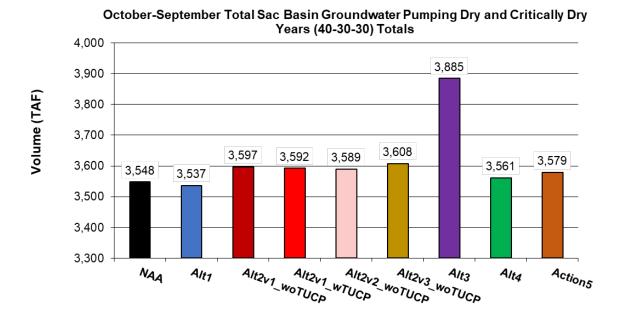


Figure 8. CalSim simulated average Groundwater pumping for Sacramento Basin for Dry and Critically Dry years

1.3 Recreation

Long-term average elevation is established by taking the Elevation-Storage Relationship pairs corresponding to storage volumes above and below the Long-term Average Volume and interpolating the elevation.

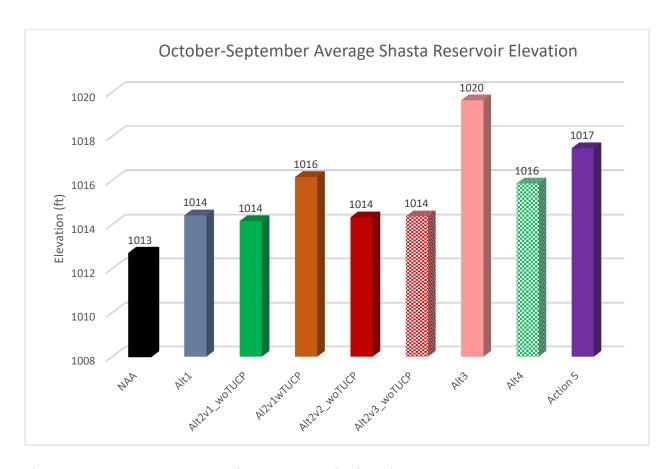


Figure 9. Oct - Sept Average Shasta Reservoir Elevation

Table 1. Shasta Elevation-Storage Relationship

Elevation (ft)	Storage (TAF)	Alternative	Long-term Average Volume (TAF)	Interpolated Long-term average elevation (ft)
1012	3097.82	NAA	3114	1013
1013	3121.03	Alt1	3154	1014
1014	3144.37	Alt2v1_woTUCP	3148	1014
1015	3167.82	Al2v1wTUCP	3195	1016
1016	3191.40	Alt2v2_woTUCP	3152	1014
1017	3215.10	Alt2v3_woTUCP	3153	1014
1018	3238.92	Alt3	3278	1020
1019	3262.86	Alt4	3188	1016
1020	3286.93	Action 5	3226	1017

October-September Sacramento River Flow below Keswick Dam Averages

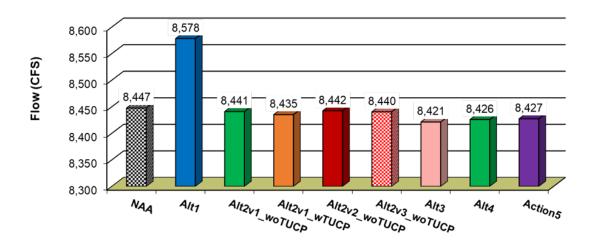


Figure 10. Sacramento River Long-Term Average Flow Downstream of Keswick Reservoir

October-September Sacramento River Flow below Keswick Dam (C_KSWCK/CHANNEL) Averages							
Flow Difference from from (CFS) from NAA Alt2v1_wo Alt2v2_wo Time Period Climate CalSim						CalSim version	
NAA	8,447.46		6.6	5.1	1921-2021	2022 Media	CalSim 3
Alt1	8,578.20	130.7	137.4	135.9	1921-2021	2022 Media	CalSim 3
Alt2v1_woTUCP	8,440.84	-6.6		-1.5	1921-2021	2022 Media	CalSim 3
Alt2v1_wTUCP	8,435.05	-12.4	-5.8	-7.3	1921-2021	2022 Media	CalSim 3
Alt2v2_woTUCP	8,442.34	-5.1	1.5		1921-2021	2022 Media	CalSim 3
Alt2v3_woTUCP	8,440.3	0.0	-0.6	-2.1	1921-2021	2022 Media	CalSim 3
Alt3	8,421.2		-19.6	-21.1	1921-2021	2022 Media	CalSim 3
Alt4	8,425.8	-21.7	-15.0	-16.5	1921-2021	2022 Media	CalSim 3
Action5	8,427.3	-20.1			1921-2021	2022 Media	CalSim 3

Figure 11. Sacramento Flow Below Keswick

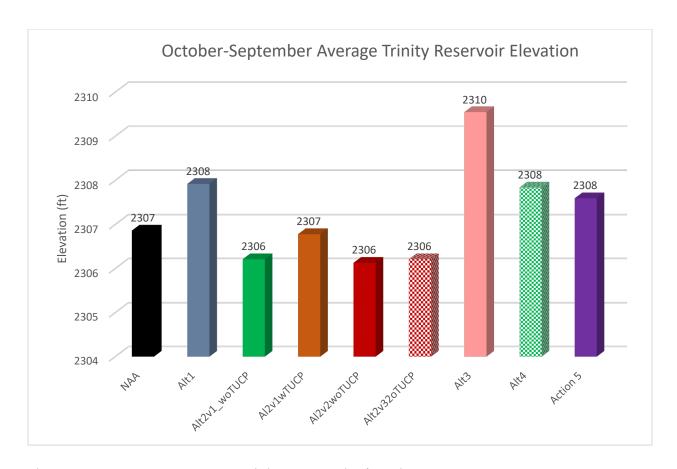


Figure 12. Oct - Sept Average Trinity Reservoir Elevation

Table 2. Trinity Elevation-Storage Relationship

Elevation (ft)	Storage (TAF)	Alternative	Long-term Average Volume (TAF)	Interpolated Long-term average elevation (ft)
2285	1292.41	NAA	1545	2307
2290	1347.25	Alt1	1558	2308
2295	1403.88	Alt2v1_woTUCP	1537	2306
2300	1462.18	Al2v1wTUCP	1544	2307
2305	1522.11	Al2v2woTUCP	1536	2306
2310	1583.59	Alt2v32oTUCP	1537	2306
2315	1646.67	Alt3	1578	2310
2320	1711.42	Alt4	1557	2308
2325	1777.74	Action 5	1554	2308

	•	October-Se Flow be C_LWSTN/C Average	Iow Lewis Channel)	ston				
	Flow Difference from from Alt2v1_wo Alt2v2_wo TUCP TUCP							
NAA	1,055.83		4.2	6.6	1921-2021	2022 Media	CalSim 3	
Alt1	1,065.05	9.2	13.4	15.8	1921-2021	2022 Media	CalSim 3	
Alt2v1_woTUCP	1,051.66	-4.2		2.4	1921-2021	2022 Media	CalSim 3	
Alt2v1_wTUCP	1,052.44	-3.4	0.8	3.2	1921-2021	2022 Media	CalSim 3	
Alt2v2_woTUCP	1,049.21	-6.6	-2.4		1921-2021	2022 Media	CalSim 3	
Alt2v3_woTUCP	1,051.0	0.0	-0.7	1.8	1921-2021	2022 Media	CalSim 3	
Alt3	1,065.7		14.0	16.5	1921-2021	2022 Media	CalSim 3	
Alt4	1,062.8	7.0	11.2	13.6	1921-2021	2022 Media	CalSim 3	
Action5	1,057.8	2.0			1921-2021	2022 Media	CalSim 3	

Figure 13. Trinity River Long-Term Average Flow Downstream of Lewiston Reservoir

1.4 Indian Trust Resources

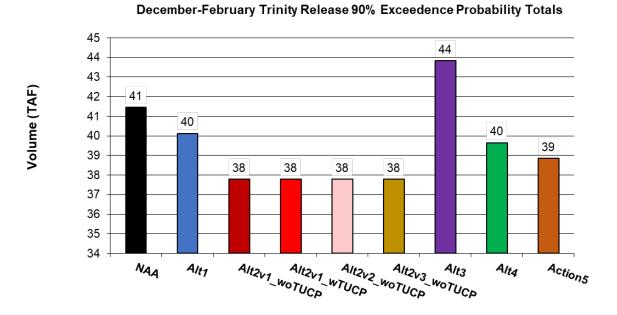


Figure 14. Trinity Reservoir Releases during dry period

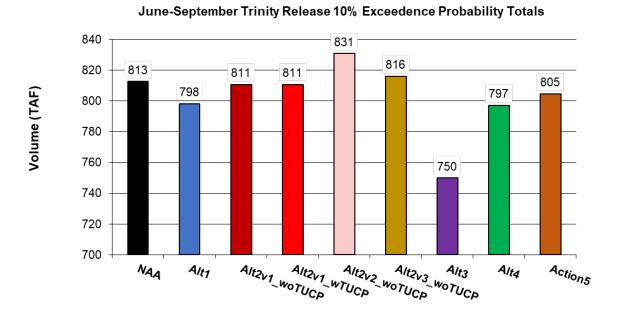


Figure 15. Trinity Reservoir Releases during wet period

1.5 Water Quality

Table 3. Monthly Average Electrical Conductivity (in micromhos per centimeter) at Delta Assessment Locations for the Full Simulation Period under Action 5, and Difference from the No Action Alternative

Location/Parameter	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
South Fork Mokelumne River at Terminous												
Full Simulation Period Average	188	194	208	211	217	211	199	190	188	185	186	183
Difference from NAA	0	-1	0	0	0	0	-2	-2	0	0	0	0
San Joaquin River at Jersey Point												
Full Simulation Period Average	1671	1675	1170	614	343	254	263	315	401	676	1094	1629
Difference from NAA	579	360	30	-18	-7	-7	-13	-27	-24	3	134	473
San Joaquin River at Prisoners	Point	t										
Full Simulation Period Average	401	429	468	352	294	273	285	250	233	247	293	371
Difference from NAA	75	64	15	-6	-5	3	4	-8	-4	-1	16	66
San Joaquin River at San Andreas Landing												
Full Simulation Period Average	455	475	473	320	241	220	226	226	222	246	305	396
Difference from NAA	90	71	14	-6	-3	0	-1	-8	-4	-2	16	72

Location/Parameter	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
San Joaquin River at Vernalis												
Full Simulation Period Average	624	712	682	626	566	586	448	399	490	571	578	583
Difference from NAA	0	0	0	2	-7	-4	0	1	-2	-3	-5	-3
San Joaquin River at Brandt Bridge												
Full Simulation Period Average	621	707	686	631	569	586	457	404	489	568	580	585
Difference from NAA	-1	0	1	1	-7	-3	0	1	-1	-2	-4	-3
Old River Near Middle River												
Full Simulation Period Average	623	709	683	629	568	586	454	402	490	570	579	584
Difference from NAA	-1	-1	-4	-4	-12	-7	-2	-2	-3	-5	-7	-5
Old River at Tracy Bridge												
Full Simulation Period Average	622	704	700	657	601	606	476	417	482	529	536	557
Difference from NAA	0	0	-1	1	-8	-4	0	1	0	6	15	9
Sacramento River at Emmator	1											
Full Simulation Period Average	2385	1985	942	535	269	238	315	429	724	899	1454	2141
Difference from NAA	614	248	3	-3	-10	-13	-43	-63	-26	-22	41	401
Sacramento River at Rio Vista												
Full Simulation Period Average	352	324	245	210	190	188	192	197	224	235	274	322
Difference from NAA	50	18	1	0	0	0	-3	-6	-3	-4	1	30
Sacramento River at Threemile	e Slou	gh										
Full Simulation Period Average	1042	982	685	409	266	226	240	266	332	440	661	964
Difference from NAA	176	143	189	83	46	18	-14	-38	-83	-41	-31	123
Banks Pumping Plant												
Full Simulation Period Average	538	563	627	539	452	414	405	377	330	321	364	476
Difference from NAA	68	79	8	-25	-47	-59	-27	-4	-18	-17	-3	54
Jones Pumping Plant	_											
Full Simulation Period Average	569	608	653	572	507	504	455	387	367	382	414	506
Difference from NAA	67	75	22	-7	-9	11	10	-1	-3	3	12	57

Table 4. Monthly Average Electrical Conductivity (in millimhos per centimeter) at Suisun Marsh Assessment Locations for the Full Simulation Period under Action 5, and Difference from the No Action Alternative

Location/Parameter	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Sacramento River at Collinsville												
Full Simulation Period Average	9.0	8.0	4.1	2.1	0.9	0.7	1.0	1.7	3.1	4.2	6.2	8.4
Difference from NAA	2.3	1.1	0.0	-0.1	0.0	-0.1	-0.2	-0.2	-0.1	-0.1	0.2	1.7
Montezuma Slough at National Steel												
Full Simulation Period Average	9.0	7.8	4.4	2.4	1.0	0.9	1.4	2.3	4.1	5.4	7.4	8.9
Difference from NAA	1.6	0.3	-0.4	0.0	-0.1	-0.1	-0.1	-0.2	-0.1	0.0	0.1	1.4
Montezuma Slough Near Beld	on Laı	nding										
Full Simulation Period Average	9.6	8.2	5.2	3.0	1.4	1.5	2.2	3.3	5.7	7.0	9.0	9.8
Difference from NAA	0.8	-0.4	-0.8	-0.1	-0.1	-0.1	-0.2	-0.3	-0.1	0.2	0.3	0.6
Chadbourne Slough Near Sun	rise Du	ıck Clı	ub									
Full Simulation Period Average	11.1	10.0	7.5	4.9	3.2	3.0	3.6	4.5	6.8	8.7	10.4	11.3
Difference from NAA	1.0	0.0	-0.4	-0.2	-0.1	0.0	-0.2	-0.4	-0.1	0.4	0.8	0.8
Suisun Slough 300 Feet South	Suisun Slough 300 Feet South of Volanti Slough											
Full Simulation Period Average	10.3	9.2	6.8	4.3	2.7	2.3	2.8	3.7	5.7	7.5	9.1	10.3
Difference from NAA	0.8	-0.1	-0.6	-0.3	-0.1	-0.1	-0.1	-0.2	-0.1	0.2	0.5	0.7

Table 5. Monthly Average Dissolved Organic Carbon (in milligrams per liter) at Delta Assessment Locations for the Full Simulation Period under Action 5, and Difference from the No Action Alternative

Location/Parameter	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Barker Slough at North Bay Aqueduct												
Full Simulation Period Average	2.3	2.4	2.8	3.1	3.4	3.4	3.2	2.8	2.4	2.3	2.2	2.2
Difference from NAA	0.0	-0.1	-0.1	-0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	-0.1
Banks Pumping Plant												
Full Simulation Period Average	3.0	3.0	3.6	4.8	5.4	5.1	4.5	4.1	3.9	3.4	3.2	3.0
Difference from NAA	0.5	0.2	0.2	0.6	0.4	0.1	-0.2	0.1	0.6	0.6	0.5	0.3
Jones Pumping Plant	Jones Pumping Plant											
Full Simulation Period Average	3.1	3.1	3.6	4.8	5.4	5.0	4.4	4.0	3.8	3.5	3.3	3.1
Difference from NAA	-0.1	-0.1	-0.4	-0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.0	-0.1
San Joaquin River at Antioch												
Full Simulation Period Average	2.2	2.4	2.8	3.3	3.7	3.8	3.5	3.1	2.7	2.5	2.4	2.3
Difference from NAA	-0.1	-0.2	-0.2	-0.1	0.0	0.1	0.0	0.0	-0.1	0.1	0.1	-0.1
Contra Costa Water District Po	umpin	g Plai	nt #1	,	,	,	•		•	,	•	•
Full Simulation Period Average	2.5	2.7	3.2	4.0	5.2	5.2	4.7	4.0	3.4	2.9	2.8	2.6
Difference from NAA	0.0	-0.1	-0.2	-0.2	0.2	0.2	0.0	0.0	0.1	0.1	0.1	-0.1

A positive difference denotes an increase from the NAA, and a negative difference indicates a decrease from the NAA. NAA = No Action Alternative.