## **APPENDIX F ENVIRONMENTAL CHECKLIST**

The Central Valley Regional Water Quality Control Board (Central Valley Water Board or Board), as a Lead Agency under the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.), is responsible for evaluating the potential environmental impacts that may occur due to changes made to the Water Quality Control Plan for the Sacramento River and San Joaquin River Basins (Basin Plan). However, the Secretary of Resources has determined that the Board's Basin Planning Program is considered a certified regulatory program, which means that the Board is exempt from the requirement to prepare an environmental impact report for basin planning activities. (Pub. Res. Code, § 21080.5; Cal. Code Regs., tit. 14, § 15251(g).)

The Staff Report and this Checklist satisfy the requirements of State Water Board's Regulations for Implementation of CEOA, Exempt Regulatory Programs, which are found at California Code of Regulations, title 23, section 3775 et seq.

### **PROJECT INFORMATION**

1.	Project Title:	Development of a Basin Plan Amendment for Salt and Boron in the Lower San Joaquin River (LSJR)
		LSJR Reach 83 Electrical Conductivity (EC) Water Quality Objective (WQO) and EC Performance Goal for Seasonal and Water Year Considerations
2.	Lead Agency Name and Address:	Central Valley Regional Water Quality Control Board 11020 Sun Center Drive, #200, Rancho Cordova, CA 95670
3.	Contact Person and Phone Number:	James Brownell, Engineering Geologist (916) 464-4675 Anne Littlejohn, Senior Environmental Scientist, (916) 464-4840 Jeanne Chilcott, Environmental Program Manager, (916) 464-4788
4.	Project Location:	The project is located within the LSJR watershed, in the Central Valley within portions of San Joaquin, Stanislaus, Merced, Madera, and Fresno Counties. Reach 83 of the LSJR is where proposed salinity WQOs would apply and is defined as that segment of the San Joaquin River from the mouth of the Merced River to Vernalis.
5.	Project Sponsor's Name and Address:	LSJR Committee through coordination with the Central Valley Salinity Alternatives for Long-term Sustainability (CV-SALTS) Initiative
6.	General Plan Designation:	N/A (multiple jurisdictions)
7.	Zoning:	N/A (multiple jurisdictions)
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8. Description of Project:

The proposed action (Preferred Alternative) is to adopt an EC WQOs and an EC Performance Goal for seasonal and water year considerations in Reach 83<sup>1</sup> of the LSJR, as shown in Table F-1. The proposed EC WQO and EC Performance Goal are protective of the existing <u>beneficial uses</u>, including agricultural irrigation supply water (AGR) beneficial use and the potential municipal and domestic supply (MUN) beneficial use, designated in Reach 83. The WQO and Performance Goal consider agriculture's seasonal demands for water diverted from Reach 83, while at the same time accounting for the fact that ambient water quality conditions are greatly influenced by the hydrologic conditions, including the presence of return flows, in the San Joaquin River Basin.

The Preferred Alternative sets an EC WQO in the LSJR of 1,550  $\mu$ S/cm. Compliance with the WQO in Reach 83 shall be evaluated as a 30-day running average at Crows Landing and Maze Road. The WQO would apply as indicated in Table F-1, except during an "extended dry period. An Extended Dry Period is defined using the State Water Resources Control Board's (SWRCB's) San Joaquin Valley "60-20-20" Water Year Hydrologic Classification<sup>2</sup> included in Revised Water Right Decision 1641 to assign a numeric indicator to a water-year type as follows (SWRCB 2000):

- Wet -- 5
- Above Normal -- 4
- Below Normal -- 3
- Dry 2
- Critically Dry -- 1

The indicator values will be used to determine when an Extended Dry Period is in effect:

- An Extended Dry Period shall begin when the sum of the current year's 60-20-20 indicator value and the previous two year's 60-20-20 indicator values total six (6) or less.
- An Extended Dry Period shall be deemed to exist for one water year (12 months) following a period with an indicator value total of six (6) or less.

During an Extended Dry Period (defined above), the following shall be taken into consideration to ensure that beneficial uses are protected in Reach 83 of the LSJR (as measured at Crows Landing):

- Protection of the potential MUN beneficial use: The EC WQO shall be the Short-Term specific conductance secondary MCL level contained in the Water Quality Control Plan (Basin Plan) for the Sacramento River Basin and the San Joaquin River Basin. (Currently incorporated from Table 64449- B of 22 CCR § 64449 at the level of 2,200 µS/cm as the average of the previous four (4) consecutive quarterly samples).
- Protection of the AGR beneficial use: The EC WQO shall be 2,470 μS/cm as a 30-day running average (derived from the Hoffman model results for 75% crop yield for almonds, 5<sup>th</sup> percentile rainfall, and 15% leaching fraction).

<sup>&</sup>lt;sup>1</sup> Reach 83 is defined as that segment of the San Joaquin River from the mouth of the Merced River to Vernalis.

<sup>&</sup>lt;sup>2</sup> The method for determining the San Joaquin Valley Water Year Hydrologic Classification (e.g., critical, dry, below normal, above normal, wet) is defined in the SWRCB Revised Water Right Decision 1641, March 2000, Figure 2, page 189. This method uses the best available estimate of the 60-20-20 San Joaquin Valley water year hydrologic classification at the 75% exceedance level using the best available data published in the California Department of Water Resources' ongoing Bulletin 120 series.

	Irrigation Se	Non-irrigation Season			
water Year Type	March – June	July - September	October - February		
Wet	<b>1,350 (PG)</b> & 1,550	1,550 (WQO)			
Above Normal	<b>1,350 (PG)</b> & 1,550	1,550 (WQO)			
Below Normal	1,350 (PG) & 1,550 (WQO)	1,550	) (WQO)		
Dry	<b>1,350 (PG</b> ) & 1,550 (WQO)	) (WQO)			
Critical	1,550 (WQO)				

Table F-1: LSJR Reach 83 EC Water Quality Objective and Performance Goal for Seasonal and
Water Year Considerations (uS/cm) during Non-Extended Dry Periods

The Preferred Alternative sets an EC Performance Goal of 1,350  $\mu$ S/cm during the irrigation season for specific water year types (Table F-1). Attainment of the EC Performance Goal in Reach 83 shall be evaluated as a 30-day running average at Crows Landing and Maze Road. The 1,350  $\mu$ S/cm EC value is proposed as a Performance Goal because:

- The Watershed Analysis Risk Management Framework (WARMF) modeling of the Planned Bundle (Planned Alternative) indicates that, after full implementation of the key actions underway within the LSJR Basin, the ambient water quality within Reach 83 of the LSJR will not exceed an EC value of 1,350 µS/cm at Crows Landing or at Maze Road. However, due to model uncertainty, the WQO was set at 1,550 µS/cm which is the value that is reasonably protective of the AGR (irrigation supply water) beneficial use based on Hoffman modeling results agreed to by stakeholders representing the local agricultural industry (95% crop yield for almonds, 5<sup>th</sup> percentile rainfall, 15% leaching fraction).
- Agricultural supply water at 1,350 µS/cm or lower would provide a higher level of protection during the irrigation season based on Hoffman modeling results.
- Water quality at 1,350 µS/cm or better would also help to maintain the soil salinity balance by flushing the salt accumulated below the root zone during Extended Dry Periods.

The EC Performance Goal and the Extended Dry Period exception included in the Preferred Alternative accounts for the seasonal and annual hydrologic conditions that affect both the quantity and quality of the water in the LSJR diverted for AGR and MUN beneficial uses-. The Performance Goal will be used to measure progress toward achievement of better water quality during the irrigation season of non-Extended Dry Periods when EC levels lower than the EC WQO would be beneficial to agriculture and are considered achievable. The Extended Dry Period exception exists to allow discharges to the LSJR to occur under hydrologic conditions when it is anticipated that agriculture will value water availability over water quality (water with EC concentrations greater than the- propose WQO of 1,550  $\mu$ S/cm.)). A detailed discussion of the project alternatives considered, including the Preferred Alternative, is provided in Development of a Basin Plan Amendment for Salt and Boron in the Lower San Joaquin River (LSJR): Task 4 – Implementation Planning for Proposed Salinity Objectives (LWA 2015a).

Based on Watershed Analysis Risk Management Framework (WARMF) modeling results, the proposed 1,550  $\mu$ S/cm EC WQO associated with the Preferred Alternative is expected to reliably be met in the San Joaquin River at Crows Landing with implementation of planned actions to manage/reduce salts that were modeled for the Preferred Alternative. The planned actions included in the Preferred Alternative, are described in Table F-2. These planned actions, included as part of the Preferred Alternative, are described in detail in the Task 4 Report (LWA 2015a). All of the actions included in Table F-2, with the exception of 2c and 3a, are already scheduled to occur in the project area during the next 5 – 10 years, independent of the establishment of the proposed 1,550  $\mu$ S/cm EC WQO. The planned action expected to provide the most significant salinity load reductions to Reach 83 of the LSJR based on WARMF modeling is 10b--the completion of the Grassland Bypass Project (GBP). The GBP was initiated

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in 1995 and is scheduled to be completed at the end of 2019.

# Table F-2: Planned Actions in Reach 83 of the Lower San Joaquin River that Will Assist in Meeting the Preferred Alternative's Proposed Electrical Conductivity Water Quality Objective.

Planned Action	Status
1. Controlled Timing of Salinity Discharges	See actions 12a and 12b
2c. Reduce Point Sources of Salinity (Implementation of POTW salinity management plan)	Pending
3a. Reduce Nonpoint Sources of Salinity (Reduction in nitrogen fertilizer application)	Pending
8b. Water Conservation – Optimize Existing Irrigation Efficiency	Pending
9a. Installation of New High Efficiency Irrigation and Delivery Systems	Pending
10b. Sequential Reuse and Volume Reduction – Salt Accumulation Area (Grassland Bypass Project)	CEQA completed Entrix (2009). Final Environmental Impact Statement and Environmental Impact Report for Grassland Bypass Project, 2010-2019. Prepared for U.S. Bureau of Reclamation and San Luis & Delta- Mendota Water Authority. August.
12a. Drainage Water Recirculation – Tailwater Recovery	<ul> <li>CEQA in progress</li> <li>(1) Patterson Irrigation District: Two Drains Project <ul> <li>U.S. Bureau of Reclamation and Patterson Irrigation District</li> <li>(2014). Draft Environmental Assessment/Initial Study and</li> <li>Negative Declaration for Patterson Irrigation District Two Drains</li> <li>Project. May.</li> <li>(2) Grassland Water District: North Grasslands Water</li> <li>Conservation and Water Quality Control Project – CEQA</li> <li>document under review (2015).</li> </ul> </li> </ul>
12b. Drainage Water Recirculation – Tilewater Recovery	Pending

Two wastewater treatment facilities for the Cities of Modesto and Turlock, currently operate discharges into Reach 83 in compliance with National Pollutant Discharge Elimination System (NPDES) permits. Future salinity-related effluent limitations for these facilities will need to consider the proposed EC WQO of 1,550  $\mu$ S/cm, if adopted, and will need to account for the continued effects of water conservation, water supply constraints, and Extended Dry Periods. The proposed EC WQO or Performance Goal for Reach 83 is not expected to result in the need to construct supplementary facilities or additions to the existing wastewater treatment facilities in the Cities of Modesto and Turlock. Considerations regarding the implementation of proposed EC WQOs in NPDES permits governing discharges to Reach 83 are included in Chapter 6 of the Basin Plan Amendment Staff Report and in Appendix D of the Task 4 Report (LWA 2015a).

#### **Existing Conditions**

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The most recent major hydrologic change to the LSJR was the adoption of the Selenium Control Program in 1996 which includes implementation of the GBP. The GBP systematically reduces selenium, salt and boron loading to the LSJR from a 90,000-acre agricultural area. The GBP began operation in 1996 and is scheduled to achieve zero discharge discharge by 2019. In addition, the Control Program for Salt and Boron Discharges to the LSJR was adopted by the Central Valley Water Board in 2004 to meet salinity WQOs at Vernalis. As part of the Program, a Real-Time Salinity Management Program (RTMP) was approved by the Central Valley Water Board in 2014,

For baseline conditions, 30-day running average EC water quality at Crows Landing (location with poorest water quality in Reach 83) was evaluated from the beginning of the GBP through 2013. The information was evaluated against irrigation season and Water-Year type as classified in State Water Resources Control Board's San Joaquin Valley "60-20-20" Water Year Hydrologic (wet to critically dry). A summary of the proposed WQOs and Performance Goals is depicted in Table F-1.

#### **Proposed Program of Implementation**

In addition to the actions already being implemented within the San Joaquin River Basin (Basin), the following are key actions that would assist in meeting the proposed EC WQO:

Full Implementation of the Grassland Bypass Project - Initiated in 1996, the GBP has prevented subsurface drainage discharges with elevated levels of selenium, salt and boron from entering channels supplying wetland habitat by consolidating and then discharging the drainage via a portion of the San Luis Drain to Mud Slough and then to the LSJR. In addition, the Grassland Bypass Project has progressively reduced the loads of these constituents entering the San Luis Drain by approximately 80 percent, 63 percent, and 63 percent, respectively, since the project was implemented. Phase I of the GBP was operated under waste discharge requirements (WDRs) issued in 1998 and Phase II was covered by a 2001 WDR update. New WDRs were adopted by the Central Valley Water Board in July 2015 for Phase III of the project, which is located in the Grassland watershed sub-basin of the San Joaquin River Basin. It is projected, based on WARMF modeling results, that the Preferred Alternative EC WQO of 1,550 µS/cm should be consistently achieved after full implementation of the GBP. The GBP is currently scheduled to be completed by December 31, 2019. As such, the effective date of the proposed action should be established to coincide with the completion of the GBP.

The following activities are currently being implemented under the control program to meet salinity WQOs at Vernalis and support the monitoring components necessary to evaluate future trends in water quality within Reach 83 (including key monitoring stations at Crows Landing and Maze Blvd.):

- Implementation of Components of the Real Time Management Program (RTMP) The RTMP is an umbrella program to optimize/maximize the export of salt from groundwater, perched zones, and agricultural drain water from the LSJR Basin while ensuring that salinity WQOs are met at Vernalis. The Central Valley Water Board has approved the RTMP in the Basin Plan as an alternative salt management strategy in lieu of monthly salt load allocations enforced by the Central Valley Water Board. RTMP facilitates the control and timing of wetland, agricultural drainage, and/or other discharges to the LSJR to coincide with periods when the river has capacity to assimilate additional salts up to a WQO.
- Water Quality Monitoring Routine EC and boron monitoring would be conducted in the LSJR at Crows Landing and Maze Road Bridge to assess compliance with the proposed EC WQO and EC Performance Goal and the existing boron WQOs for Reach 83 to determine the effectiveness of the implementation program. A long-term monitoring and reporting program, carried out under either one or more existing ambient water quality monitoring programs or established as a separate entity, will be developed to determine compliance with the EC WQO and Performance Goal in Reach 83, as well as evaluate the effectiveness of the implementation program. The long-term

monitoring and reporting program are described in detail in the Task 6 Memorandum written in support of the proposed project (LWA 2015b).

#### **Direct and Indirect Physical Environmental Effects**

Implementation of the key actions already scheduled within the Basin, are anticipated to meet the EC WQO that would be promulgated by the proposed action. The proposed action also includes establishment of an EC Performance Goal in Reach 83 and routine EC and boron monitoring in the LSJR at Crows Landing and Maze Road Bridge. The EC and boron monitoring would not result in adverse physical effects to the environment. The proposed action would not result in any direct or indirect environmental effects that have not already been evaluated in other CEQA documents for salinity objectives at Vernalis (State Water Resouces Control Board, 2006); Control Program for Salt and Boron Discharges to the LSJR (Central Valley Water Board, 2004); and Grassland Bypass Project (Central Valley Water Board, 2010).

The proposed alternative includes a re-opener option in 10-years to evaluate success at meeting both WQOs and Performance Goals as well as implementation of planned activities. The evaluation process will allow consideration of potential future hydrologic modifications that may change the assimilative capacity of the LSJR (San Joaquin River Restoration Project (USBR, 2012) and South Delta Flow Objectives (draft for review, State Board, 2016).

#### **Comments Received**

The Central Valley Water Board hosted a public scoping meeting for the proposed action on March 30, 2009. Public comments were received until April 15, 2009. A list of the commenters and their respective organizations is presented in Table F-3. The Central Valley Water Board took into consideration all comments received when selecting the proposed action.

	Table F-3   List of Commenters						
Letter No.	Commenter	Date	Agency/Organization	Topic/Concern			
1	Daniel B. Cozad	3/16/2009	Central Valley Salinity Coalition (CV SALTS)	Coordination amongst CV SALTS and Central Valley Water Board to establish SJR standards			
2	Dustin Cooper	4/14/2009	San Joaquin River Exchange Contractors Water Authority	Consistency of the SED under CEQA			
3	Kenneth Petruzzelli	4/14/2009	San Joaquin River Group	Evaluate beneficial uses; CALSIM II modeling; Real Time Management program			
4	Karna E. Harrigfeld	4/15/2009	Stockton East Water District	Timeline; identifying salt sources; reduced flows because of TMDL			
5	Dante John Nomellini, Jr.	4/15/2009	Central Delta Water Agency/South Delta Water Agency	Establishing salinity and boron objectives above Vernalis			
6	Deeanne M. Gillick	4/15/2009	County of San Joaquin/San Joaquin County Flood Control and Water Conservation District	Timeline; reduced flows; protection of beneficial uses; New Melones flow			
7	Michelle Light	4/15/2009	U.S. Bureau of Reclamation	Suggested models and methods of analysis			

- 9. Surrounding Land Uses and Setting: (Briefly describe the project's surroundings)
- Other public agencies whose approval is required: (e.g., permits, financing approval, or participation agreement)

Reach 83 of the LSJR is the applicable segment where proposed salinity levels will apply. Reach 83 flows northwest through the San Joaquin Valley, from the San Joaquin River's confluence with the Merced River to Vernalis. The land surrounding Reach 83 consists primarily of farmland.

State Water Resources Control Board, Office of Administrative Law and United States Environmental Protection Agency must approve the Basin Plan Amendment before it becomes regulation. In addition, a Basin Plan Amendment is not final until the State Water Board files, with the Secretary of the Natural Resources Agency, a Notice of Decision and either the California Department of Fish and Wildlife's written "No Effect" Determination or a copy of its Environmental Filing Fee Cash Receipt.

## ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

Aesthetics	Agriculture and Forest Resources	Air Quality
Biological Resources	Cultural Resources	Geology / Soils
Greenhouse Gas Emissions	Hazards & Hazardous Materials	Hydrology / Water Quality
Land Use / Planning	Mineral Resources	Noise
Population / Housing	Public Services	Recreation
Transportation / Traffic	Utilities / Service Systems	Mandatory Findings of Significance
None With Mitigation		

## EVALUATION OF THE ENVIRONMENTAL IMPACTS IN THE CHECKLIST

- 1) The Board must complete an environmental checklist before the adoption of plans or policies for the Basin/208 Planning program as certified by the Secretary for Natural Resources. The checklist becomes a part of the Substitute Environmental Documentation (SED).
- 2) For each environmental category in the checklist, the Board must determine whether the project will cause any adverse impact. If there are potential impacts that are not included in the sample checklist, those impacts should be added to the checklist.
- 3) If the Board determines that a particular adverse impact may occur as a result of the project, then the checklist boxes must indicate whether the impact is "Potentially Significant," "Less than Significant with Mitigation Incorporated," or "Less than Significant."
  - a) "Potentially Significant Impact" applies if there is substantial evidence that an impact may be significant. If there are one or more "Potentially Significant Impact" entries on the checklist, the SED must include an examination of feasible alternatives and mitigation measures for each such impact, similar to the requirements for preparing an environmental impact report.
  - b) "Less than Significant with Mitigation Incorporated" applies if the Board or another agency incorporates mitigation measures into the SED that will reduce an impact that is "Potentially Significant" to a "Less than Significant Impact." If the Board does not require the specific mitigation measures itself, then the Board must be certain that the other agency will in fact incorporate those measures.
  - c) "Less than Significant" applies if the impact will not be significant, and mitigation is therefore not required.
  - d) If there will be no impact, check the box under "No Impact."
- 4) The Board must provide a brief explanation for each determination in the checklist. The explanation may be included in the written report described in section 3777(a)(1) or in the checklist itself. The explanation of each issue should identify: (a) the significance criteria or threshold, if any, used to evaluate each question; and (b) the specific mitigation measure(s) identified, if any, to reduce the impact to less than significant. The Board may determine the significance of the impact by considering factual evidence, agency standards, or thresholds. If the "No Impact" box is checked, the Board should briefly provide the basis for that answer. If there are types of impacts that are not listed in the checklist, those impacts should be added to the checklist.
- 5) The Board must include mandatory findings of significance if required by CEQA Guidelines section 15065.
- 6) The Board should provide references used to identify potential impacts, including a list of information sources and individuals contacted.

I.	AE	STHETICS. Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	a)	Have a substantial adverse effect on a scenic vista?				$\boxtimes$
	b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				
	C)	Substantially degrade the existing visual character or quality of the site and its surroundings?				$\boxtimes$
	d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				$\boxtimes$

**Discussion**: The project area stretches from Vernalis to the Merced River through San Joaquin and Stanislaus counties near the cities of Ripon, Modesto, Turlock, Patterson, and Newman. The project site borders lands designated for agricultural activities by both counties. Interstate 5 (I-5) runs though the southwest of Stanislaus County and branches off into Interstate 580 (I-580) which extends along the southwest of San Joaquin County. Caltrans designates these segments as State Scenic Highway (Caltrans 2011a; 2011b).

The proposed action involves establishing a new EC WQO that primarily would be met through the completion of the Grassland Bypass Project. The proposed action also includes establishment of an EC Performance Goal in Reach 83 and routine EC and boron monitoring in the LSJR at Crows Landing and Maze Road Bridge. The action's primary objective is to protect the AGR (irrigation supply water) and potential MUN (municipal and domestic supply) beneficial uses in Reach 83 of the LSJR. Implementation would not require any physical disturbance or ground moving activities, or any other physical effect that may affect aesthetic resources. The proposed project is not anticipated to change flow patterns from those that would occur without the project. Project operation would not include any new sources of light or nighttime glare nor would implementation affect the integrity of any State Scenic Highway. The project would result in no impact to aesthetics in the project area.

			Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Π.	AG deternance are prej as a agri imp sigr refe Dep the and Ass met the	<b>RICULTURE AND FOREST RESOURCES.</b> In emining whether impacts to agricultural resources significant environmental effects, lead agencies y refer to the California Agricultural Land Evaluation a Site Assessment Model (1997, as updated) pared by the California Department of Conservation an optional model to use in assessing impacts on iculture and farmland. In determining whether bacts to forest resources, including timberland, are inficant environmental effects, lead agencies may er to information compiled by the California bartment of Forestry and Fire Protection regarding state's inventory of forest land, including the Forest I Range Assessment Project and the Forest Legacy essment project; and forest carbon measurement thodology provided in Forest Protocols adopted by California Air Resources Board. Would the Project:				
	a)	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non- agricultural use?				
	b)	Conflict with existing zoning for agricultural use or a Williamson Act contract?				$\boxtimes$
	C)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				
	d)	Result in the loss of forest land or conversion of forest land to non-forest use?				$\boxtimes$
	e)	Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?				

**Discussion**: The project area contains several urban areas, such as the cities of Modesto, Turlock, Merced, and Los Banos, as well as other rural communities that are generally situated near regional roadways. These cities and communities are surrounded by agricultural lands, including lands designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Department of Conservation [DOC] 2015). There are no forest lands within the project area. The key actions utilized to meet the new EC WQO would not involve land use changes, ground disturbing activities, or other physical impacts. Because the proposed action would not result in the loss of agricultural lands, including those designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance or land zoned for agricultural use or lands within a Williamson Act contract, there would be no impact.

Because the project area does not contain forest lands, the proposed action would have no impact on forest

				Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
III.	AI sig air dis det	RQ nifica qual trict term	<b>UALITY.</b> Where available, the ance criteria established by the applicable ity management or air pollution control may be relied on to make the following inations. Would the project:				
	a)	Coi app	nflict with or obstruct implementation of the blicable air quality plan?				$\boxtimes$
	b)	Viol sut vio	ate any air quality standard or contribute ostantially to an existing or projected air quality lation?				$\boxtimes$
	C)	Res of a reg fed (ind qua pre	ult in a cumulatively considerable net increase any criteria pollutant for which the project ion is non-attainment under an applicable eral or state ambient air quality standard cluding releasing emissions which exceed antitative thresholds for ozone ecursors)?				
		d)	Expose sensitive receptors to substantial pollutant concentrations?				$\boxtimes$
		e)	Create objectionable odors affecting a substant number of people?	ial 🗌			$\boxtimes$

Discussion: The project area is located in San Joaquin and Stanislaus counties. Both counties are within the area regulated for air quality standards attainment by the San Joaquin Valley Air Pollution Control District (SJVAPCD). SJVAPCD is considered an attainment area for the federal 8-hour Carbon Monoxide (CO) standard and an extreme ozone nonattainment area for the federal 8-hour ozone standard.

Implementation and operation of the proposed action would not involve activities that would produce air pollutants. Local air quality plans established by SJVAPCD would not be affected nor would any sensitive receptors in the project area experience an increase in concentrations of air pollutants.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
V.	BI	OLOGICAL RESOURCES. Would the project:				
	a)	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special- status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?				
	b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?				$\boxtimes$
	c)	Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
	d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				
	e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				$\boxtimes$
	f)	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				

#### Discussion:

The establishment of the proposed salinity objectives in the LSJR would not result in any potentiallysignificant impacts to biological resources because the implementation program associated with the proposed salinity objectives is expected to result in an improvement to the existing water quality conditions within the LSJR. The proposed EC WQO for Reach 83 was developed to be protective of all beneficial uses in the LSJR, including the AGR (irrigation supply water) and MUN (municipal and domestic supply) beneficial uses. A review of the designated beneficial uses in Reach 83 determined that the AGR and MUN uses were more sensitive to salinity than either the aquatic life beneficial uses (Kennedy/Jenks Consultants, 2010) or stock watering (Kennedy/Jenks, Consultants, 2013).

Though the proposed salinity objectives for the LSJR are higher than those recognized by the Bay-Delta Plan to be protective of striped bass spawning within the South Delta, in the area of Prisoners Point (440 uS/cm EC from April through May), water quality within the LSJR is significantly different from the South Delta areas where the Bay-Delta Plan established the 440 uS/cm water quality objectives. The Prisoner Point area which is downstream of Reach 83, was specifically delimited for protection of striped bass spawning due to low salinity flows from the Sacramento River that enter the area through the Delta Cross Channel.

Reach 83 has not presented optimal habitat for striped bass spawing since the hydrologic modifications described in Section 2 of the Staff Report were constructed decades ago. In addition, regulatory measures have contributed to the establishment of an environmental baseline that limits the ability of striped bass to spawn in the LSJR: the Bay-Delta Plan itself recognized that when it set a salinity WQO of 1,000 uS/cm upstream of Prisoners Point in the LSJR at Vernalis, such an action would establish a salinity barrier that would likely prevent striped bass from spawning upstream and into the project area (State Water Resources Control Board, 1991). These sub-optimal conditions for striped bass spawing in the LSJR are considered part of the environmental baseline for evaluating potentially-significant impacts associated with the adoption of the proposed Basin Plan Amendment.

The new salinity objectives were developed in consideration of State and federal regulations, including the State's Sources of Drinking Water Policy, the Basin Plan, State and federal water regulations, and other State and federal requirements relevant to drinking water, stock drinking water, agricultural irrigation uses, and aquatic life protection. The completion of the Grassland Bypass Project would provide the greatest management of salinity loads to achieve the new EC WQO. Implementation of the proposed action would not result in the physical alteration of a natural environment such that there would be any adverse effects on federally- or State-listed species. The proposed action would not conflict with any Habitat Conservation Plans, Natural Community Conservation Programs, or local policies designed to protect biological resources. The project would not result in a depletion of biodiversity in aquatic and riparian habitats near the project area.

Through the establishment of a new EC WQO, the proposed action aims to protect the AGR (irrigation supply water) and MUN (municipal and domestic supply) beneficial uses in Reach 83 of the LSJR. Review of designated beneficial uses in Reach 83 determined that AGR and MUN uses to be more sensitive to salinity than aquatic life (Kennedy/Jenks Consultants, 2010) and stock watering (Kennedy/Jenks, Consultants, 2013). Therefore, the WQOs proposed would not impact these beneficial uses. The new salinity objective was developed in consideration of State and federal regulations, including the State's Sources of Drinking Water Policy, the Basin Plan, State and federal water regulations, and other State and federal requirements relevant to drinking water, stock drinking water, agricultural irrigation uses, and aquatic life protection. The completion of the Grassland Bypass Project would provide the greatest management of salinity loads to achieve the new EC WQO. Implementation of the proposed action would not result in the physical alteration of a natural environment or have adverse effects on federally or State listed species. The proposed action would not conflict with any Habitat Conservation Plans, Natural Community Conservation Programs, or local policies designed to protect biological resources. The project would not result in a depletion of biodiversity in aquatic and riparian habitats near the project area.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
V.	CU	ILTURAL RESOURCES. Would the project:				
	a)	Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?				
	b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?				
	C)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				
	d)	Disturb any human remains, including those interred outside of formal cemeteries?				X

Discussion: The proposed action would not involve physical alterations of existing structures or any ground disturbance. Adverse change or the destruction of significant cultural resources would not result from the monitoring of water quality within Reach 83.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VI.	GE	OLOGY AND SOILS. Would the project:				
	a)	Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
		<ul> <li>Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to California Geological Survey Special Publication 42.)</li> </ul>				
		ii) Strong seismic ground shaking?				$\boxtimes$
		iii) Seismic-related ground failure, including liquefaction?				$\boxtimes$
		iv) Landslides?				
	b)	Result in substantial soil erosion or the loss of topsoil?				$\boxtimes$
	C)	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading,				$\square$
		subsidence, liquefaction, or collapse?				
	d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994, as updated), creating substantial risks to life or property?				$\boxtimes$
	e)	Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				$\boxtimes$

Discussion: The 2002 Alquist-Priolo Earthquake Fault Zoning Map shows that the project area is not located within any Earthquake Fault Zones; Landslide and Liquefaction Zones; or Fault Zones, Landslide and Liquefaction Zones (DOC 2002). Implementation of the proposed action would not include development of new structures and would not expose people or structures to areas of strong seismic shaking, landslide, or liquefaction. The use or implementation of septic tanks or additional waste water disposal systems is not a component of the proposed action.

VII.	GREENHOUSE GAS EMISSIONS. Would the	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
projec	xt:				
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				$\boxtimes$
b)	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				$\boxtimes$

Discussion: The proposed action involves establishing a new EC WQO that primarily would be met through the completion of the Grassland Bypass Project. The proposed EC WQO or Performance Goal for Reach 83 is not expected to result in the need to construct supplementary facilities such as desalting facilities or additions to the existing wastewater treatment facilities in the Cities of Modesto and Turlock. Project activities would not include the use of GHG generating equipment or machinery. There would be no release of GHG-related pollutants as a result of project implementation.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII.	HA the	ZARDS AND HAZARDOUS MATERIALS. Would				
	a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				$\boxtimes$
	b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and/or accident conditions involving the release of hazardous materials into the environment?				
	C)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				$\boxtimes$
	d)	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				
	e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?				
	f)	For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				$\boxtimes$
	g)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				$\boxtimes$
	h)	Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are				

Discussion: Implementation of the proposed action would not create a significant hazard or involve the handling of hazardous materials.

intermixed with wildlands?

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. H	DROLOGY AND WATER QUALITY. Would the oject:				
a)	Violate any water quality standards or waste discharge requirements?				$\boxtimes$
b)	Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted)?				
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial on- or offsite erosion or siltation?				
d)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in on- or offsite flooding?				
e)	Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				$\square$
f)	Otherwise substantially degrade water quality?				$\boxtimes$
g)	Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				$\boxtimes$
h)	Place within a 100-year flood hazard area structures that would impede or redirect flood flows?				$\boxtimes$
i)	Expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam?				$\boxtimes$
j)	Result in inundation by seiche, tsunami, or mudflow?				$\boxtimes$

Discussion: The proposed EC WQOs for Reach 83 were developed to be protective of all beneficial uses in the LSJR, including the AGR (irrigation supply water) and MUN (municipal and domestic supply) beneficial uses. Through the establishment of a new EC WQO, the proposed action aims to protect the AGR (irrigation supply water) and MUN (municipal and domestic supply) beneficial uses in Reach 83 of the LSJR. The new salinity objective was developed in consideration of State and federal regulations, including the State's Sources of Drinking Water Policy, the Basin Plan, State and federal water regulations, and other State and federal requirements relevant to drinking water, stock drinking water, agricultural irrigation uses, and aquatic life protection.

Upon adoption and implementation of the proposed EC WQOs, changes to NPDES permits may be necessary. Water quality-based effluent limitations will be required in NPDES permits for dischargers that have reasonable potential to cause or contribute to an instream excursion of the EC WQOs in the LSJR based on the monthly average receiving water EC at the first diversion point downstream of their outfall providing AGR irrigation supply or MUN beneficial use.

The completion of the Grassland Bypass Project would provide the greatest management of salinity loads to achieve the new EC WQO. Implementation of the project would set an EC objective to ensure protection of the beneficial uses designated for Reach 83 of the LSJR. Review of water quality conditions since initiation of the GBP indicates that salinity sporadically exceeded currently proposed objectives. Modeling of scheduled implementation activities indicate that the water quality may improve to levels below the propose EC WQOs, thus resulting in an overall improvement of water quality.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Х.	LA	ND USE AND PLANNING. Would the project:				
	a)	Physically divide an established community?				$\boxtimes$
	b)	Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to, a general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				
	C)	Conflict with any applicable habitat conservation plan or natural community conservation plan?				$\boxtimes$

Discussion: The proposed action involves implementing a new EC WQO that primarily would be met through completion of the Grassland Bypass Project, a project that was previously approved. The proposed action would not result in any land use changes and would not result in development of any structures or physical facilities and would therefore not physically divide an established community. The proposed action would also not conflict with any Habitat Conservation Plans or Natural Community Conservation Plans and would comply with local, State, and federal land use policies.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XI.	MI a)	NERAL RESOURCES. Would the project: Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				$\boxtimes$
	b)	Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?				$\boxtimes$

Discussion: Project implementation and operation would not include changes in existing or planned land use, disturbance of soil, or development of structures or facilities that could impact or reduce the availability of mineral resources.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XII.	NC	DISE. Would the project result in:				
	a)	Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or in other applicable local, state, or federal standards?				
	b)	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?				$\boxtimes$
	C)	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				$\boxtimes$
	d)	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?				$\boxtimes$
	e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				
	f)	For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				$\boxtimes$

Discussion: The proposed action would not generate substantial noise and would comply with relevant and applicable local, State, and federal standards. Project activities include monitoring and testing of water quality conditions, and would not involve the use of noise-generating equipment.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII.	PC	PULATION AND HOUSING. Would the project:				
	a)	Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
	b)	Displace substantial numbers of existing homes, necessitating the construction of replacement housing elsewhere?				
	C)	Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				

Discussion: The main objective of the proposed action is to protect the AGR (irrigation supply water) beneficial use in Reach 83. The project area currently serves primarily as agricultural land. Implementation of the proposed action would not result in addition or removal of any homes and therefore would not result in an increase in population or in the displacement of people or homes.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV.	PU	BLIC SERVICES. Would the project:				
	a)	Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
		Fire protection?				$\boxtimes$
		Police protection?				$\boxtimes$
		Schools?				$\boxtimes$
		Parks?				$\boxtimes$
		Other public facilities?				$\boxtimes$

Discussion: The proposed EC WQO or Performance Goal for Reach 83 is not expected to result in the need to construct supplementary facilities or additions to the existing wastewater treatment facilities in the Cities of Modesto and Turlock. Considerations regarding the implementation of proposed EC WQOs in NPDES permits governing discharges to Reach 83 are included in Chapter 6 of the Basin Plan Amendment Staff Report and in Appendix D of the Task 4 Report (LWA 2015a). Implementation of the proposed action would not require any physical alterations that would conflict with or reduce access to public services. Monitoring of salinity levels in Reach 83 would not result in the obstruction of service-designated routes or roadways.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XV.	RE	CREATION. Would the project:				
	a)	Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				$\boxtimes$
	b)	Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?				$\boxtimes$

Discussion: The proposed action's main objective is to protect the AGR (irrigation supply water) beneficial use in Reach 83 of the LSJR by establishing a new EC WQO. The new WQO primarily would be achieved through the completion of the Grassland Bypass Project. The proposed action also includes the establishment of an EC Performance Goal in Reach 83 and routine EC and boron monitoring in the LSJR at Crows Landing and Maze Road Bridge. Implementation of the proposed action would not increase population and would not increase use of existing recreational facilities or demand for new recreational facilities. There would be no impact

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI.	TR	ANSPORTATION/TRAFFIC. Would the project:				
	a)	Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?				
	b)	Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?				
	C)	Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safetyrisks?				$\boxtimes$
	d)	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				$\boxtimes$
	e)	Result in inadequate emergency access?				$\ge$
	f)	Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?				

Discussion: The proposed action would not produce an increase in traffic levels or require the construction of new roadways. Project activities would have no effect on air traffic.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII.	UT pro	ILITIES AND SERVICE SYSTEMS. Would the ject:				
	a)	Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?				$\boxtimes$
	b)	Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
	c)	Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
	d)	Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?				
	e)	Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand, in addition to the provider's existing commitments?				
	f)	Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?				$\boxtimes$
	g)	Comply with federal, state, and local statutes and regulations related to solid waste?				$\boxtimes$

Discussion: The proposed action involves the establishment of a new EC WQO that primarily would be met through the completion of the Grassland Bypass Project, a project that has previously undergone CEQA review and been approved. Additionally, the proposed action includes the establishment of an EC Performance Goal in Reach 83, as well as routine EC and boron monitoring in the LSJR at Crows Landing and Maze Road Bridge.

If adopted in a Basin Plan Amendment, the proposed WQO for Reach 83 would be used in the derivation of future effluent limitations contained in NPDES permits for the publically owned treatment works (POTW) operated by the Cities of Modesto and Turlock. The Central Valley Water Board, the entity responsible for developing effluent limitations and issuing NPDES permits, is required to adopt effluent limitations that protect the AGR (irrigation water supply) and MUN (municipal and domestic supply) beneficial uses in the LSJR, that do not impact the attainment of the existing Vernalis EC objectives, and that comply with State and federal antidegradation policies. While future EC effluent limitations for the Cities of Modesto and Turlock cannot be developed at this time (i.e., prior to the expiration of each city's current NPDES permit),

future NPDES permitting determinations will need to account for the continued effects of water conservation, water supply constraints, and Extended Dry Periods. Water quality-based effluent limitations will be required in NPDES permits for dischargers that have reasonable potential to cause or contribute to an instream excursion of the EC WQOs in the LSJR. The proposed implementation program clarifies that reasonable potential calculations will be based on the monthly average receiving water EC at the first diversion point downstream of their outfall providing AGR irrigation supply or MUN beneficial use. If a point source discharge is found to have a reasonable potential to cause or contribute to an instream excursion of the EC WQOs, water quality-based effluent limits shall be based either on EC concentrations or TDS loading to account for appropriate protection during dry weather versus wet weather flows. The proposed EC WQOs for Reach 83 are not expected to result in the need to construct supplementary facilities or additions to the existing wastewater treatment facilities in the Cities of Modesto and Turlock. Project implementation would not involve new storm water facilities or the discharge of solid waste or landfill servicing. There would be no impact.

			Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVIII.	MA	ANDATORY FINDINGS OF SIGNIFICANCE.				
	a)	Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self- sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of an endangered, rare, or threatened species, or eliminate important examples of the major periods of California history or prehistory?				
	b)	Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)				
	C)	Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?				$\boxtimes$

Discussion: As previously discussed, the proposed action's main objective is to protect the AGR (irrigation supply water) beneficial use in Reach 83 of the LSJR by establishing a new EC WQO. Review of water quality conditions since initiation of the GBP indicates that salinity sporadically exceeded currently proposed objectives. Modeling of scheduled implementation activities indicate that the water quality may improve to levels below performance goals. The proposed project sets objectives below historic levels and sets goals to significantly improve water quality. The abovementioned activities do not require the physical alteration of existing structures or habitats and would not result in the loss of an endangered, threatened, or listed species, or any historically significant resources. The proposed project recognizes the need to protect short-term MUN during extended dry periods—even though there are no diversions existing or planned. There would be no cumulatively considerable adverse effects on the environment or human beings. Implementation of the proposed action would improve water quality of the project site for the benefit of biological and human use.

Authority: Public Resources Code Sections 21083, 21083.5. Reference:

Government Code Sections 65088.4.

Public Resources Code Sections 21080, 21083.5, 21095; *Eureka Citizens for Responsible Govt. v. City of Eureka* (2007) 147 Cal.App.4th 357; *Protect the Historic AmadorWaterwaysv.AmadorWaterAgency*(2004) 116 Cal.App.4th at 1109; *San Franciscans Upholding the Downtown Planv. City and County of San Francisco*(2002) 102 Cal.App.4th 656.

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LSJR Salinity BPA