

RECLAMATION

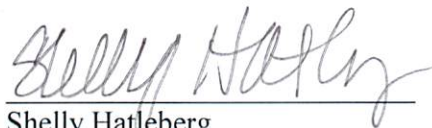
Managing Water in the West

Finding of No Significant Impact 18-34-MP

Level 4 Water One-year Purchase Agreement with Modesto Properties (2018)

**Refuge Water Supply Program
Bureau of Reclamation, Mid-Pacific Region
Sacramento, California**

Prepared by:

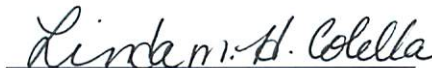


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Mission Statements

The Department of the Interior protects and manages the Nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated island communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

Introduction

This document addresses the Bureau of Reclamation (Reclamation) Refuge Water Supply Program's (RWSP) One-year Water Purchase Agreement of up to 6,000 acre-feet (AF) of groundwater from Modesto Properties for the East Bear Creek Unit of the San Luis National Wildlife Refuge Complex (Refuge) (Proposed Action). The Proposed Action would also make available up to 6,000 AF of Incremental Level 4 (IL4) water to South of Delta (SOD) Refuges.

The Proposed Action is being undertaken pursuant to, and would be in full compliance with, Section 3406(d)(2) of Title XXXIV of the Act of October 1992 (106 Stat. 4706) Central Valley Project Improvement Act (CVPIA), which authorizes new water supply contracts for fish and wildlife purposes.

This Finding of No Significant Impact (FONSI) is supported by Reclamation's Environmental Assessment (EA)/FONSI Number 16-22-MP, and is hereby attached and incorporated by reference.

Alternatives Including Proposed Action

No Action Alternative

The No Action Alternative would consist of Reclamation not entering into an agreement with Modesto Properties to fund the purchase of Level 4 (L4) water supplies to help meet Refuge demand. The delivery of groundwater to the Refuge from Modesto Properties for purposes defined in the EA/FONSI (October 2016) would not occur. Other SOD Refuges would also not receive up to 6,000 AF of Refuge IL4 water.

Proposed Action

The Proposed Action involves Reclamation entering into a one-year agreement with Modesto Properties to purchase up to 6,000 AF groundwater for L4 supplies for the Refuge. Groundwater would be discharged directly into Bear Creek and delivered to the Refuge to meet a component of its L4 water demand. Modesto Properties will oversee and coordinate the delivery of groundwater supplies to the Refuge. Operationally, once the Modesto Properties wetlands are at capacity, the groundwater wells would continue delivering water into Bear Creek via two existing structures. The water would then travel down Bear Creek less than one mile to the Refuge's pump station, prior to the confluence of the San Joaquin River where it would be lifted onto the Refuge. The rate of discharge to Bear Creek would be controlled at the two existing discharge structures that have historically been used to draw down the Modesto Properties wetlands and to allow flood waters to pass through the property. The Proposed Action would also make available up to 6,000 AF of IL4 water to SOD Refuges.

Modesto Properties will be responsible for all water quality monitoring associated with the development of these groundwater supplies and insure that all water quality monitoring criteria and standards identified in the Monitoring and Mitigation Plan (see Appendix 2 of the EA/FONSI) are met. The Refuge will provide Reclamation monthly volumetric totals of the water pumped at the Refuge pump station. The U.S. Fish and Wildlife Service (USFWS) plans to start taking delivery of L4 water at the Refuge in the fall of 2018.

Modesto Properties would be responsible for well operations and maintenance and for coordinating the delivery of groundwater into Bear Creek at times when the Refuge requests such water. Reclamation and USFWS staff would have access to the wells in order to independently test water quality and monitor flow. If water quality monitoring results do not meet the criteria set forth in the Monitoring and Mitigation Plan, Modesto Properties would notify Reclamation and the purchase would cease until water quality criteria can be met.

Findings

In accordance with NEPA, the Mid-Pacific Regional Office of Reclamation has found that approval of the Proposed Action is not a major federal action that will significantly affect the quality of the human environment. Consequently, an environmental impact statement is not required.

Following are the reasons why the impacts from the proposed action are not significant:

1. The Proposed Action will not significantly affect public health or safety (40 CFR 1508.27(b)(2)).
2. The Proposed Action will not significantly affect natural resources and unique geographical characteristics such as proximity to historic or cultural resources; parks, recreation, and refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (Executive Order (EO) 11990); floodplains (EO 11988); national monuments; migratory birds; and other ecologically significant or critical areas (40 CFR 1508.27(b)(3) and 43 CFR 46.215(b)).
3. There is no potential for effects of the Proposed Action to be considered highly controversial (40 CFR 1508.27(b)(4)).
4. The Proposed Action will not have possible effects on the human environment that are highly uncertain or involve unique or unknown risks (40 CFR 1508.27(b)(5)).
5. The Proposed Action will neither establish a precedent for future actions with significant effects nor represent a decision in principle about a future consideration (40 CFR 1508.27(b)(6)).

6. The Proposed Action will not have a cumulatively significant impacts (40 CFR 1508.27(b)(7)).
7. The Proposed Action will not significantly affect historic properties (40 CFR 1508.27(b)(8)).
8. The Proposed Action will not significantly affect listed or proposed threatened or endangered species, or its habitat that has been determined to be critical under the Endangered Species Act of 1973 (40 CFR 1508.27(b)(9)).
9. The Proposed Action will not threaten a violation of Federal, state, tribal or local law or requirements imposed for the protection of the environment (40 CFR 1508.27(b)(10)).
10. The Proposed Action will not affect any Indian Trust Assets (512 DM 2, Policy Memorandum dated December 15, 1993).
11. Implementing the Proposed Action will not disproportionately affect minorities or low-income populations and communities (EO 12898).
12. The Proposed Action will not limit access to, and ceremonial use of, Indian sacred sites on Federal lands by Indian religious practitioners or adversely affect the physical integrity of such sacred sites (EO 13007 and 512 DM 3).
13. The Proposed Action will not result in adverse impacts to water or land resources. The purchased water would be delivered to the Refuge via Bear Creek. Implementation of the Monitoring and Mitigation Plan (Appendix 2 of EA/FONSI) would ensure that conveyance of water under the Proposed Action would not adversely impact existing water supplies or water quality. The Proposed Action would not adversely impact water conveyance facilities or activities within the Refuge. Groundwater would be produced from five existing electrically powered wells and two existing wells power by diesel generators. The actual amount of groundwater pumped would be dependent on the productivity of the wells and other factors, such as water quality and groundwater drawdown. All groundwater produced by the wells would be discharged into Bear Creek and mixed with other waters in the creek (when present). All groundwater produced for the proposed action would be used for refuge management purposes within the Refuge. Pumping would only occur if monitoring data indicates that water quality is suitable for refuge use and water quality standards provided in the Monitoring and Mitigation Plan are being met.

Modesto Properties will monitor groundwater depths at the wells 24 hours prior to pumping, and then measure again at approximately midpoint of the pumping period and prior to shutting down the wells at the end of the pumping period. They will then take another measure of groundwater depth approximately 24 hours after the pumping period ends to evaluate the recovery of groundwater levels.

Modesto Properties will closely monitor water quality at the wells during the Proposed Action. The three major water quality constituents of concern are salinity (measured in TDS), boron and selenium. These parameters were monitored during the 2015-2016 pilot project and in 2017-2018 and no significant changes in water quality were detected. If any of the future water quality data collected over the life of the Proposed Action indicates that the use of a well(s) may adversely impact water quality, the mitigation measures, incorporated into the Proposed Action, as well as in the Monitoring and Mitigation Plan, (both provided in the October 2016 EA/FONSI), will be implemented. If monitoring indicates that threshold values are exceeded, mitigation measures will be implemented within 24 hours of identifying an exceedance.

Two of the seven wells pump from the aquifer above and below the Corcoran Clay (Wells 5 and 21), however, these two wells will be used mainly as secondary supply to maintain 10 cubic feet per second (cfs) during flood up of the Modesto Properties wetlands and to get water to the Refuge's pumping plant for purposes of the proposed action. If the other primary wells (Wells 18, 20 and 24) are able to achieve 10 cfs, then Wells 5 and 21 would not be utilized. Pumping groundwater from below the Corcoran Clay will only be temporary and may not occur at all.

Due to the limited amount of proposed groundwater pumping, the Proposed Action is not expected to have adverse impacts to groundwater resources or subsidence trends.

14. The Proposed Action will not have significant air quality impacts. There would be no construction or ground disturbance. The Proposed Action involves operating two existing diesel generators (80 horsepower and 139 horsepower) to pump groundwater intermittently when the other 5 electric powered well pumps are not able to maintain a 10 to 15 cfs flow rate into Bear Creek. These diesel engine-powered wells pumps would only be used as necessary and shut off when the electric well pumps can maintain the flows required to meet USFWS demands at the Refuge pump station. As backup wells, they would be operated for up to 3 months a year, between October and January, emitting far below federal conformity and local thresholds. Therefore, the Proposed Action is exempt from the General Conformity Regulations, and a Federal general conformity analysis report is not required. The Proposed Action would not conflict with or obstruct the California State Implementation Plan.

RECLAMATION

Managing Water in the West

Environmental Assessment

5-Year Refuge Level 2 Water Exchange with San Luis Water District

U.S. Department of the Interior
Bureau of Reclamation
Mid Pacific Region
Sacramento, CA

October 2016



Mission Statements

The mission of the Department of the Interior is to protect and manage the Nation's natural resources and cultural heritage; provide scientific and other information about those resources; and honor its trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated island communities.

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Figure 1 Overview Map

Table 1 Well and Monitoring Locations

Table 2 Modesto Properties Well Production and Water Quality

Appendix 1 Well, Monitoring and Discharge Location Map

Appendix 2 Monitoring and Mitigation Plan

List of Acronyms and Abbreviations

AF	Acre-feet
AFY	Acre-feet per year
B	Boron
CFR	Code of Federal Regulations
CVP	Central Valley Project
CVPIA	Central Valley Project Improvement Act
Delta	Sacramento-San Joaquin Delta
District	San Luis Water District
EA	Environmental Assessment
EBCU	East Bear Creek Unit of the San Luis National Wildlife Refuge
FONSI	Finding of No Significant Impact
IL4	Incremental Level 4 refuge water supply
ITA	Indian Trust Assets
L2	Level 2 refuge water supply
L4	Level 4 refuge water supply
mg/L	Milligrams per liter
NEPA	National Environmental Policy Act
NWR	National Wildlife Refuge
Reclamation	Bureau of Reclamation
Report	Reclamation's <i>Report on Refuge Water Supply Investigations</i> (1989)
Se	Selenium
Secretary	Secretary of the U.S. Department of Interior
SHPO	State Historic Preservation Officer
SIP	State Implementation Plan
SJRRP	San Joaquin River Restoration Program
SOD	South of Delta
TDS	Total Dissolved Solids
ug/L	Micrograms per liter
USFWS	U.S. Fish and Wildlife Service

1 Introduction

This Environmental Assessment (EA) has been prepared by the Bureau of Reclamation (Reclamation) to evaluate and disclose any potential environmental impacts associated with Reclamation's 5-year exchange of up to 6,000 acre-feet per year (AFY) of groundwater for up to 3,000 AFY of Level 2 (L2) water with the San Luis Water District (District). This water exchange is authorized under the Central Valley Project Improvement Act (CVPIA), specifically Sections 3406(d)(2) and 3406(b)(3).

A Report on Refuge Water Supply Investigations (Report) describes water needs and delivery requirements for 19 CVPIA designated National Wildlife Refuges (NWR), State Wildlife Management Areas, and the Grassland Resource Conservation District, collectively referred to as "Refuges" (Reclamation 1989). In this Report, the Refuges' average annual historical water supplies were termed Level 2 (L2), and the water supplies needed for optimum habitat management were termed Level 4 (L4). CVPIA (Section 3406[d][1]) requires the Secretary of the Interior (Secretary) to deliver full L2 water to the Refuges in California's Central Valley. Furthermore, CVPIA (Section 3406[d][2]) directs the Secretary to provide supplemental water supplies to meet the Refuges' full L4 demands through the acquisition of water from willing providers. Such supplemental water is commonly referred to as "Incremental Level 4" (IL4). Additionally, CVPIA (Section 3406[d][1]) directs the Secretary to endeavor diversifying the Refuges' water supply sources.

An 8-month pilot exchange project of essentially the same scope was conducted from October 2015 through May 2016. This project titled: "Refuge Level 2 Water Exchange with San Luis Water District" was useful in gathering information about the feasibility of a longer-term exchange project. The key information and data collected during the 2015-2016 pilot project are presented in this EA and were utilized to help prepare this EA.

This EA focuses on the potential impacts of exchanging over the next five years up to 6,000 AFY of groundwater developed by the District (in cooperation with Modesto Properties) and delivered to the East Bear Creek Unit of the San Luis National Wildlife Refuge (EBCU) for up to 3,000 AFY of L2 water made available to the District and up to 3,000 AFY delivered to South of Delta (SOD) Refuges. The L2 water allocated for EBCU will be exchanged and up to 3,000 AFY of this water will be provided to the District and up to 3,000 AFY will be made available to SOD Refuges. The entire amount of pumped groundwater originates from and is delivered within the Merced Groundwater Subbasin. The exchange would provide a portion of the EBCU's L2 need and provide up to 3,000 AFY of IL4 water for other San Joaquin Valley Refuges. This proposed exchange (Proposed Action) would occur between October 2016 and February 28, 2021. The EBCU is located in the San Joaquin Valley, south of Bear Creek and east of the San Joaquin River, as shown in **Figure 1**.

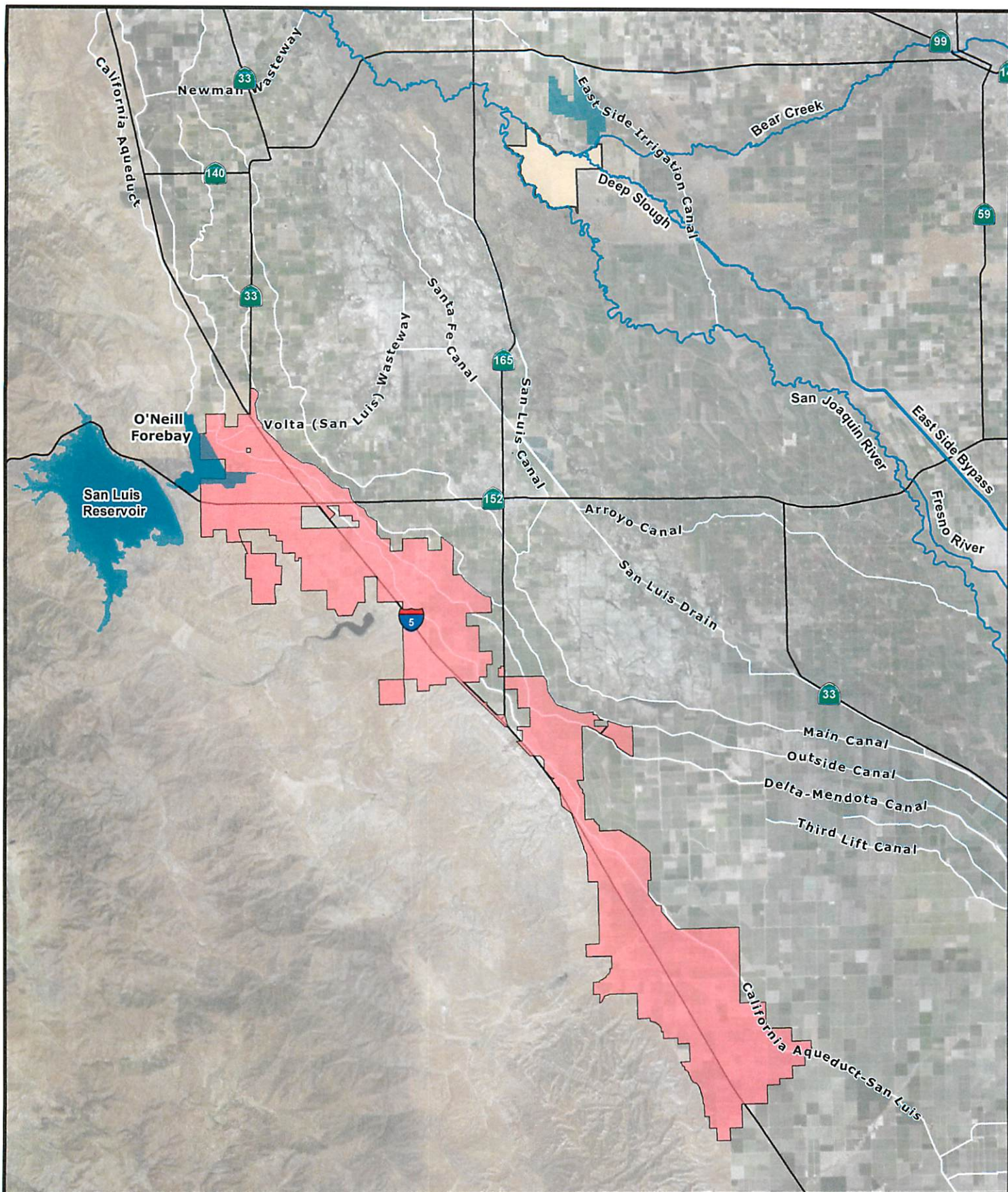


FIGURE 1
Overview Map
 5-Year Refuge Level 2 Exchange with San Luis Water District

- San Luis Water District
- Modesto Properties
- East Bear Creek Unit



1.1 Need for the Proposal

The Secretary, through Reclamation, is responsible for providing full L2 and IL4 water to the Refuges, including the EBCU. L2 water supplies are primarily provided from CVP supplies while IL4 supplies are acquired from willing providers. The Proposed Action is needed to provide L2 water supplies to EBCU wetlands in support of migratory waterfowl habitat, which may otherwise remain dry. The Proposed Action is an efficient way to get water to the EBCU due to lack of existing conveyance to provide CVP project supply to EBCU.

1.2 Resources Analyzed in Detail

This EA analyzes the affected environment of the Proposed Action and No Action Alternative in order to determine the potential impacts and cumulative effects to the following environmental resources:

- Surface Water Resources
- Groundwater Resources
- Biological Resources
- Air Quality

Impacts to the following resources were considered and found to be minor or absent. Brief explanations for their elimination from further considerations are provided below:

- Indian Sacred Sites: The Proposed Action will neither affect nor prohibit access to and ceremonial use of Indian sacred sites.
- Indian Trust Assets: There are no Indian reservations, Rancherias, or allotments in the Project area. The Proposed Action does not have the potential to affect Indian Trust Assets.
- Environmental Justice: The Proposed Action would not have disproportionately negative impacts on low-income or minority individuals or populations.
- Cultural Resources: The Proposed Action involves the acquisition of water from existing facilities with no ground disturbance, modifications to facilities, or other potential impacts to cultural resources. Pursuant to the regulations at 36 CFR Part 800.3(a)(1), the Proposed Action has no potential to cause effects on historic properties and will result in no impacts to cultural resources. As such, Reclamation has no further obligations under Section 106 of the National Historic Preservation Act.

2 Proposed Action & Alternatives

2.1 No Action Alternative

The No Action Alternative would consist of Reclamation not approving the exchange of L2 water supplies with the District during the period ending February 28, 2021. The proposed up to 6,000 AFY of groundwater to be pumped as part of the Proposed Action would not be delivered to the EBCU. This could leave the refuge completely dry unless alternative sources of water can be acquired and conveyed to EBCU. The District would not receive L2 water supplies (equivalent to 50% of the up to 6,000 AFY delivered to the EBCU) delivered by Reclamation to help meet the District's water needs and other SOD refuges would not receive up to 3,000 AFY of IL4. The No Action alternative would reduce the overall refuge supplies (L2 and IL4) by up to 9,000 AFY.

2.2 Proposed Action

Following the pilot project implemented from November 2015 - May 2016, the District proposes to continue funding over a 5-year period the costs associated with pumping groundwater supplies from existing private wells located within the Modesto Properties (up to 6,000 AFY) in exchange for L2 water supply (up to 3,000 AFY). The pumped groundwater would be discharged directly into Bear Creek and delivered to the EBCU to meet a component of its L2 water demand. The District in cooperation with Modesto Properties will oversee and coordinate the delivery of groundwater supplies to the EBCU. Operationally, once the Modesto Properties wetlands are at capacity, the groundwater wells would continue delivering water into Bear Creek via two existing structures, as shown on **Appendix 1**. The water would then travel down Bear Creek less than one mile to the EBCU's pump station, prior to the confluence of the San Joaquin River where it would be lifted onto the EBCU. The rate of discharge to Bear Creek would be controlled at the two existing discharge structures that have historically been used to draw down the Modesto Properties wetlands and to allow flood waters to pass through the property.

Once the EBCU schedules delivery of its L2 water supply each fall, it is proposed that the District fund the cost to develop and deliver up to 6,000 AFY of groundwater in exchange for up to 3,000 AF of L2 water. For every 2 AF of groundwater made available to the EBCU, the District will receive 1 AF of L2 water. The L2 exchange water will be made available to the District each month following the delivery of groundwater to the EBCU. This 2:1 exchange will provide water for EBCU and result in a refuge water supply benefit of up to 9,000 AFY, or up to a total of 45,000 AF during the term of the agreement, of L2/IL4 water at no cost to Reclamation and up to 3,000 AFY, or up to 15,000 AF total during the term of the agreement, of new water supply for the District. The EBCU will pump 5% less water than provided by the District to account for conveyance losses.

The District will enter into an agreement with Reclamation for the exchange of water. The District, in cooperation with Modesto Properties, will be responsible for all water quality monitoring associated with the development of these groundwater supplies and insure that all water quality monitoring criteria and standards identified in the Monitoring and Mitigation Plan (**Appendix 2**) are met. The EBCU will provide the District and Reclamation monthly volumetric totals of the water pumped at the EBCU pump station.

The U. S. Fish and Wildlife Service (USFWS) plans to start taking delivery of L2 water at the EBCU in the fall of 2016 and plans to receive scheduled water deliveries through the fall of February 28, 2021. When the exchange agreement with Reclamation is executed and deliveries of groundwater to the EBCU begins, the exchange can be initiated. It is anticipated the wells will be operated for exchange purposes through the fall of 2021.

The District would be responsible for well operations and maintenance and for coordinating the delivery of groundwater into Bear Creek at times when the EBCU requests such water. Reclamation and USFWS staff would have access to the wells in order to independently test water quality and monitor flow. If water quality monitoring results do not meet the criteria set forth in the Monitoring and Mitigation Plan, the District would notify Reclamation and the exchange would cease until water quality criteria can be met.

Well Locations and Details

The location of the Modesto Properties wells and the upstream and downstream monitoring locations are shown below in **Table 1** and in **Appendix 1**. Five of the seven wells are electric powered. Wells NG and 4 are powered by diesel engines. These two wells would be used only on an as needed basis over the 5 year project to help offset down time of the other 5 wells.

Table 1 Well and Monitoring Locations

Well No.	GPS Coordinates
NG	37°16'10.44"N 120°46'11.32"W
4	37°16'32.69"N 120°45'27.37"W
5P	37°16'54.17"N 120°46'43.53"W
18	37°17'42.90"N 120°46'33.83"W
20	37°16'05.69"N 120°45'37.76"W
21	37°15'59.68"N 120°45'21.59"W
24	37°16'57.24"N 120°46'36.36"W
Conveyance Monitoring Locations	
Upstream Monitoring	37°15'45.81"N 120°45'39.25"W
Discharge No. 1	37°15'46.51"N 120°45'41.70"W
Discharge No. 2	37°15'33.00"N 120°45'52.96"W
Downstream Monitoring	37°15'32.16"N 120°45'50.72"W

2.4 Monitoring

Project monitoring would include metering of the flows discharged from each of the wells. Flows would be metered at each wellhead and at the discharge points into Bear Creek.

To minimize any potential for surface water quality degradation associated with the utilization of groundwater in Bear Creek to supplement L2 water supply, water quality monitoring would consist of both surface and groundwater quality monitoring. Monitoring will include sampling in Bear Creek upstream of the discharge locations to determine the base flow constituent concentrations, downstream of the discharge locations in Bear Creek, and at each wellhead. If threshold surface water quality objectives are exceeded at any time, corrective actions would be implemented within 24 hours, such as reducing or ceasing well pumping operations until water quality objectives can be met.

In an effort to minimize any potential significant impact on groundwater aquifers associated with the development of groundwater as part of this Proposed Action, groundwater levels will be measured prior to beginning pumping operations for the Proposed Action using an electronic water level meter referenced to GPS coordinates and elevation at each wellhead. Subsequently, well drawdown related to the operation of each well will be measured in the middle of the proposed pumping period, and at the end of the pumping period prior to well shutdown. Groundwater recovery will be measured

approximately 24 hours after pump shutoff. Groundwater level data will be recorded and provided to Reclamation for review. If the mid-pumping period groundwater level data indicates a substantial decline in groundwater levels in the vicinity of the proposed wells, and if any such decline is not directly attributable to a cause other than the operation of the proposed wells during the Proposed Action pumping period, the District will modify or terminate pumping for project purposes to avoid any adverse groundwater impacts. The District will take all measures necessary to avoid third party well impacts.

The Proposed Action wells are 170 to 440 feet deep and pump groundwater predominantly from above the Corcoran Clay. Significant land subsidence has not been documented within the Modesto Properties area. More detailed monitoring information is located in the Project Monitoring and Mitigation Plan (**Appendix 2**).

3 Affected Environment & Environmental Consequences

The District is located on the west side of Merced and Fresno counties and the EBCU is located in western Merced County (Figure 1). The wells are all located in Merced County, within the boundaries of Modesto Properties. The counties are bounded by the Sierra Nevada Mountains to the east and the Pacific coastal range to the west. The project region is characterized by flat valley lowland wetlands and agricultural lands, with a climate that is cool and moist in the winter and hot and dry in the summer.

The EBCU includes a section of Bear Creek and contains natural grasslands, vernal pools, riparian floodplain habitat, irrigated pasture and small-grain production lands. The EBCU is managed primarily for migratory waterfowl, shorebirds, marsh and water birds and their associated habitat types, as well as for listed species.

Modesto Properties consists of about 1,860 acres that are primarily managed as seasonal wetlands. A portion of the southern property line of Modesto Properties is contiguous to the EBCU with the majority of the property lying on the north side of Bear Creek. Modesto Properties utilizes groundwater to manage their seasonal wetlands and the landowners have indicated and the pilot exchange project confirmed that the Modesto Properties well field has the capacity to provide water to the EBCU in addition to meeting the seasonal needs of their property.

3.1 Surface Water Resources

3.1.1 Affected Environment

The EBCU is located east of the San Joaquin River, in Merced County. It includes a section of Bear Creek and contains native uplands, seasonal wetlands, vernal pools, and riparian floodplain habitat. It provides critically important habitat for both resident species and the migratory waterfowl that utilize the Pacific Flyway, and requires substantial water supplies.

Historically, the water supplies delivered to the EBCU have been obtained by diverting water from Bear Creek via its riparian water rights or acquired annually by Reclamation's Refuge Water Supply Program from willing sellers. The average annual supply acquired for the EBCU has been substantially less than the L4 volume required for optimal management. As a result, the EBCU remains underdeveloped for support of migratory birds.

The proposed “Refuge Level 2 Exchange Agreement for Tertiary Treated Water Project” (Gallo Project) is a year-long pilot project that will be discharging tertiary treated waste water into Bear Creek for delivery to EBCU. The Gallo Project is scheduled to operate for one year during the same time period that the Proposed Action proposes to operate in 2016 and into 2017. The water from the Gallo Project will be discharged into Bear Creek upstream of the two Modesto Properties Bear Creek discharge locations. The EBCU pump station is located on Bear Creek approximately 0.2 miles downstream of the confluence of the Eastside Bypass with Bear Creek.

Additionally, the San Joaquin River Restoration Program (SJRRP) restoration flows are scheduled to begin in 2016. Restoration flows would flow down the Eastside Bypass, enter Bear Creek, and pass by the EBCU pump station before heading to the San Joaquin River. Therefore, during the first year and potentially all future years of the Proposed Action, the water in Bear Creek at the EBCU pump station would be a blend of the waters from these other various projects, from SJRRP flows, and from other sources of water that may be present in Bear Creek. Reclamation cannot account for other sources of water of varying volumes and quality that enter Bear Creek.

3.1.2 Environmental Consequences

No Action

Under the No Action Alternative, Reclamation would not approve the exchange of L2 surface water for groundwater. Groundwater would not be delivered via Bear Creek to the EBCU to help meet 2016-2021 refuge water needs. The EBCU would potentially only receive water from the Gallo Project in 2016 and part of 2017. If this is the case, after 2017 the EBCU could be left short of water supplies needed to meet habitat demands. Also, the District would not receive up to 3,000 AF of water for agricultural use, which is needed to help offset reduced allocations of CVP water.

Proposed Action

The Proposed Action would result in no substantial change or impact to CVP operations, or to Delta pumping by the CVP. The acquired water would be delivered to the EBCU via Bear Creek. Implementation of the Monitoring and Mitigation Plan (**Appendix 2**) would ensure that conveyance of water under this Proposed Action would not adversely impact existing water supplies or water quality. The Proposed Action would not adversely impact water conveyance facilities or activities within the EBCU. Instead, the additional deliveries through the Proposed Action would have the beneficial effect of helping meet L2 refuge needs during a period when there are physical constraints on providing the L2 supplies, as well as providing a supplemental water supply for agricultural use in the District.

Cumulative Impacts

No significant adverse impacts to surface water resources would result from implementation of the Proposed Action, therefore, the Proposed Action would not contribute to cumulative impacts to the resource.

3.2 Groundwater Resources, Geologic Resources, & Water Quality

3.2.1 Affected Environment

The groundwater wells are located in the Merced Subbasin of the San Joaquin Valley Groundwater Basin. There are three groundwater bodies in the area: an unconfined water body, a confined water body, and the water body in consolidated rocks. The unconfined water body occurs in the unconsolidated deposits above and east of the Corcoran Clay, which underlies the western half of the subbasin at depths ranging between about 50 and 200 feet (DWR 1981), except in the western and southern parts of the area where clay lenses occur and semi-confined conditions exist. The confined water body occurs in the unconsolidated deposits below the Corcoran Clay and extends downward to the base of fresh water. The water body in consolidated rocks occurs under both unconfined and confined conditions. The estimated average specific yield of this subbasin is 9.0 percent (based on DWR, San Joaquin District internal data and that of Davis 1959).

Groundwater flow is primarily to the southwest, following the regional dip of basement rock and sedimentary units. DWR (2000) data show two groundwater depressions south and southeast of the city of Merced during 1999 (DWR Bulletin 118).

Changes in groundwater levels are based on annual water level measurements by DWR and cooperators. Water level changes were evaluated by quarter township and computed through a custom DWR computer program using geostatistics (kriging). On average, the subbasin water level has declined nearly 30 feet from 1970 through 2000. The period from 1970 through 1978 showed steep declines totaling about 15 feet. The ten-year period from 1978 to 1988 saw stabilization and a rebound of about 10 feet. 1988 through 1995 again showed steep declines, bottoming out in 1996 with water levels rising from 1996 to 2000. Water level declines have been more severe in the eastern portion of the subbasin (DWR Bulletin 118).

The groundwater in this subbasin is characterized by calcium-magnesium bicarbonate at the basin interior, sodium bicarbonate to the west, and calcium-sodium bicarbonate to the south. Small areas of sodium chloride and calcium-sodium chloride waters exist at the southwest corner of the basin (Page 1973). TDS values range from 100 to 3,600 mg/L, with a typical range of 200 to 400 mg/L. The Department of Health Services, which monitors Title 22 water quality standards, reports TDS values in 46 wells ranging from 150 to 424 mg/L, with an average value of 231 mg/L. For 10 wells, EC values range from 260 to 410 $\mu\text{mhos/cm}$, with an average value of 291 $\mu\text{mhos/cm}$ (DWR Bulletin 118).

Land subsidence due to groundwater withdrawal is triggered by decreases in pore pressure in a confined aquifer system containing clay layers (typically montmorillonite or kaolinite clay). The decrease in pore pressure increases the effective stress on the aquifer skeleton. If this effective stress exceeds the maximum stress to which the aquifer skeleton has been subjected in the past, the clay layers can undergo permanent compaction (USGS 2009).

Elastic subsidence occurs in response to seasonal changes in pore pressure within the aquifer system. Elastic subsidence is a characteristic of any confined aquifer system and does not result in permanent compaction (USGS 2009).

Groundwater quality in the project area is typically characterized by total dissolved solids (TDS), selenium (Se), and boron. The water quality of the receiving waterway is also a relevant factor. Under the Proposed Action's Monitoring and Mitigation Plan (**Appendix 2**), groundwater entering Bear Creek shall not increase TDS by more than 200 milligrams per Liter (mg/L) upstream to downstream of the groundwater discharge points in Bear Creek, Se concentrations shall not exceed 2 ug/L downstream of the discharge points in Bear Creek and boron shall not exceed 4.0 mg/L downstream of the discharge points in Bear Creek.

3.2.2 Environmental Consequences

No Action

Under the No Action Alternative, Reclamation would not approve the exchange of L2 surface water for groundwater provided to EBCU. Groundwater would not be delivered via Bear Creek to the EBCU to help meet 2016-2021 refuge water needs. Also, the District would not receive up to 15,000 AF of water for agricultural use, which is needed to help offset the reduced allocations of CVP water anticipated over the next 5-years. SOD Refuges would not receive up to 15,000 AF of IL4 water.

Proposed Action

Groundwater would be produced from 5 existing electrically powered wells and 2 existing wells powered by diesel generators. Groundwater would be pumped in an amount up to 6,000 AFY beginning in fall 2016 through the Fall of 2021. When compared to Modesto Properties' 2014 (the year prior to the pilot project) groundwater pumping, and taking into consideration the approximately 632 AF of water conserved from proposed wetland idling, Modesto Properties would pump an additional amount of up to 3,000 AFY. The actual amount of groundwater pumped would be dependent on the productivity of the wells and other factors, such as water quality and groundwater drawdown. All groundwater produced by the production wells would be discharged into Bear Creek and mixed with other waters in the creek (when present). All groundwater produced for this project would be used for refuge management purposes within the EBCU. Pumping would only occur if monitoring data indicates that water quality is suitable for refuge use and water quality standards provided in the Monitoring and Mitigation Plan are being met.

The District, in cooperation with Modesto Properties, will monitor groundwater depths at the wells. They will measure groundwater depths 24 hours prior to pumping, and then measure again at approximately the midpoint of the pumping period and prior to shutting down the wells at the end of the pumping period. They will then take another measure of groundwater depth approximately 24 hours after the pumping period ends to evaluate the recovery of groundwater levels.

The District and Modesto Properties will closely monitor water quality at the wells during the Proposed Action. The three major water quality constituents of concern are salinity (measured in TDS), boron, and selenium. These parameters were monitored during the 2015-2016 pilot project and no significant changes in water quality were detected. If any of the future water quality data collected over the next 5 years indicates that the use of a well(s) may adversely impact water quality, the mitigation measures described below, incorporated into the Proposed Action, as well as the Monitoring and Mitigation Plan, will be implemented. If groundwater is found to contain constituent concentrations above the Central Valley Regional Water Quality Control Board's (CVRWQCB) surface water thresholds, the well(s) production rate will be reduced or curtailed for purposes of the Proposed Action until flow conditions improve and water quality objectives can be achieved. The mitigation measures below will ensure that the groundwater supply developed during this Proposed Action will not significantly adversely impact surface water quality. If the monitoring indicates that threshold values are exceeded, mitigation measures will be implemented within 24 hours of identifying an exceedance.

Two of the seven wells pump from the aquifer above and below the Corcoran Clay (Wells 5 and 21), however, these two wells will be used mainly as secondary supply to maintain 10 cfs during flood up of the Modesto Properties wetlands and to get water to the EBCU's pumping plant for purposes of the Proposed Action. If the other primary wells (Wells 18, 20 and 24) are able to achieve 10 cfs, then Wells 5 and 21 would not be utilized. Pumping groundwater from below the Corcoran Clay will only be temporary and may not occur at all.

Water Quality Mitigation Measures

The District, in cooperation with Modesto Properties, will modify or cease operations under this Proposed Action until flow conditions improve if any of the following downstream water quality thresholds are exceeded:

- Maximum of 2.0 µg/L for selenium downstream of discharge points in Bear Creek
- Maximum increase of 200 mg/L TDS upstream to downstream of discharge points in Bear Creek
- Maximum of 4.0 mg/L for boron downstream of discharge points in Bear Creek

In the event that the water from any of the wells increase TDS levels in Bear Creek downstream from the discharge points by more than 200 mg/L, the well(s) production rate will be reduced or operation curtailed for Proposed Action purposes until flow conditions improve and downstream water quality objectives can be achieved.

In the event that the water from any of the wells cause an exceedance of the Se or boron thresholds listed above in Bear Creek downstream from the discharge points, the well(s) production rate will be reduced or operation curtailed for Proposed Action purposes until flow conditions improve and downstream water quality objectives can be achieved.

Monitoring of downstream locations will determine the combined flow and chemistry of the blended water. The sites shall be adequate distance from the discharge locations to assure proper blending for grab sample collection. All water quality data will be kept at the District's office. As soon as practical (generally within 7 days of the District's receipt of information from the water quality testing laboratory), the District will ensure that Reclamation receives electronic copies of the complete data reports submitted by the laboratory. The District in cooperation with Modesto Properties will also provide a monthly water quality summary report, including volumetric data on wellhead production, within 60 days of sample collection.

Although the Modesto Properties has reported there is no known subsidence on or under Modesto Properties, the project location is within an area that has shown increased rates of subsidence in recent years. As such, Reclamation will be monitoring locations close to this project's location as part of a biannual subsidence monitoring program. Reclamation checked the December 2015 subsidence data collected by the San Joaquin River Restoration Program. No additional subsidence changes were observed in the Modesto Properties area (USBR, 2016). Monitoring over the period of the Proposed Action would assess whether any subsidence that may occur on or in the areas surrounding the Modesto Properties can be attributed to the Proposed Action or outside influences.

Due to the limited amount of proposed groundwater pumping, the Proposed Action is not expected to have adverse impacts to groundwater resources or subsidence trends.

Cumulative Effects

When added to past, present, and future foreseeable action, the Proposed Action could contribute to a minor increase in groundwater production (approximately 6,000 AFY) in the general vicinity during the project pumping period. A total of up to 30,000 AF of groundwater pumping would occur at the Modesto Properties' wells during the Proposed Action period. Private wells in and near the project area would continue to utilize groundwater during the proposed action, however, impacts on local groundwater use would be low since pumping is expected to occur during the non-irrigation season. Pumping is not expected to significantly affect the lower aquifer system below the Corcoran Clay, and it is not anticipated that pumping during the Proposed Action would substantially impact the upper aquifer system.

Water quality analyses were conducted on samples taken from the project wells during the 2015-2016 pilot project. A summary of the analysis reports is shown in **Table 2**. Under the Proposed Action, impacts to water quality would be insignificant and scheduled monitoring would occur along with any follow-on actions under the Project Monitoring and Mitigation Plan. Therefore, the Proposed Action would not significantly contribute to cumulative impacts to water quality.

Table 2 Modesto Properties Well Production and Water Quality¹

Well No	Well Production			Se (µg/L)	B (mg/L)	EC (µmhos/cm)	Estimated Blended EC ² (µmhos/cm)	TDS (mg/L)	Estimated Blended TDS ² (mg/L)
	gpm	cfs	AF/ 30 days						
5P	900	2.01	119	ND	0.12	1,250		768	
18	2,300	5.12	305	<0.4	0.12	1,200		902	
20	1,788 ¹	3.98	237	ND	0.11	799		519	
21	1,700	3.79	225	<0.4	0.097	868		609	
24	750	1.67	99	<0.4	0.08	837		587	
4	630	1.4		<0.4	0.058	627			
NG	530	1.2		<0.4	0.066	691			
Total	8,598	19.17	986				889		677

¹ Sample Date: 8/23/2015 and 8/30/2016² Flow-weighted average

Although the Modesto Properties has reported there is no known subsidence on or under Modesto Properties, the Modesto Properties are within an area that has shown increased rates of subsidence in recent years. In addition, environmental commitments, including a monitoring plan for groundwater levels, water quality, and subsidence have been incorporated into the Proposed Action to minimize potential impacts. As such, the Proposed Action would not contribute cumulatively to adverse impacts to groundwater levels or subsidence trends.

3.3 Biological Resources

3.3.1 Affected Environment

The exchange for groundwater supplies under the Proposed Action would result in the EBCU temporarily receiving more water than the average supply utilized from intermittent Bear Creek flows that would likely occur under the No Action Alternative, thus providing benefits to the EBCU and the species that rely on it, particularly in dry years. The Proposed Action would not involve the conversion of any agricultural land. There would be no change in land use patterns of cultivated or fallowed fields that do have some value to listed species or to birds protected by the Migratory Bird Treaty Act (MBTA). Groundwater that would be moved into the Bear Creek would use existing facilities and would be limited by its quality. Maintaining high water quality as a condition of the project assures there would be no direct or indirect impacts to listed species or their critical habitat.

The EBCU, as part of the San Luis NWR Complex, is a major wintering ground and migratory stopover point for large concentrations of waterfowl, shorebirds and other water birds. Large flocks of northern shoveler, mallard, gadwall, wigeon, green-winged teal, cinnamon teal, northern pintail, ring-billed duck, canvasback, ruddy duck, and snow, Ross' and white-fronted geese utilize seasonal and permanent wetlands in the San Luis NWR, including the EBCU. Waterfowl generally remain until mid-April before beginning their journey north to breeding areas. Some mallard, gadwall, and cinnamon teal stay through the spring and summer and breed on the refuge. (USFWS website 2010)

Shorebirds, including sandpipers and plovers, can be found in the tens of thousands from autumn through spring. Large flocks of dunlin, long-billed dowitchers, least sandpipers and western sandpipers can be found feeding in shallow seasonal wetlands, whereas flocks of long-billed curlews are found using both wetlands and grasslands. Over 25 species of shorebirds have been documented at the San Luis NWR. (USFWS website 2010)

The EBCU supports a rich botanical community of native bunchgrasses, native and exotic annual grasses, forbs, and native shrubs. Trees, such as valley oak, cottonwood, and willow are found along riparian corridors. Coyotes, desert cottontail rabbits, ground squirrels, western meadowlarks, yellow-billed magpies, loggerhead shrikes, northern harriers, and white-tailed kites are found within these areas. (USFWS website 2010)

The following list of federally listed, proposed and candidate species potentially occurring in the EBCU area was obtained on September 13, 2016 by accessing the USFWS Database. The list also includes State listed, proposed and candidate species potentially occurring in the area obtained by accessing the California Department of Fish and Wildlife California Natural Diversity Database/Rarefind (CNDDB/Rarefind) on September 13, 2016.

The species list below is for the area near the project wells in the vicinity of Los Banos. This area is included in the San Luis Ranch and Los Banos 7 ½ minute U.S. Geological Survey quadrangles. Not all of the species listed below are within the project area, but were included on the list provided by USFWS for the area.

Invertebrates

Branchinecta conservatio

Conservancy fairy shrimp (FE)

Critical habitat, Conservancy fairy shrimp (X)

Branchinecta longiantenna

Critical habitat, longhorn fairy shrimp (X)

Longhorn fairy shrimp (FE)

Branchinecta lynchi

Critical habitat, vernal pool fairy shrimp (X)

Vernal pool fairy shrimp (FT)

Desmocerus californicus dimorphus

Valley elderberry longhorn beetle (FT)

Lepidurus packardii

Critical Habitat, vernal pool tadpole shrimp (X)

Vernal pool tadpole shrimp (FE)

Fish

Hypomesus transpacificus

Delta smelt (FT) (ST)

Oncorhynchus mykiss

Central Valley steelhead (FT) (NMFS)

Amphibians

Ambystoma californiense

California tiger salamander, central population (FT)

Rana aurora draytonii

California red-legged frog (FT)

Reptiles

Gambelia (=Crotaphytus) *sila*

Blunt-nosed leopard lizard (FE) (SE)

Thamnophis gigas

Giant garter snake (FT) (ST)

Mammals

Dipodomys nitratoides exillis

Fresno kangaroo rat (FE)

Vulpes macrotis mutica

San Joaquin kit fox (FE) (ST)

Plants

Chamaesyce hooveri

Critical habitat, Hoover's spurge (X)

Hoover's spurge (FT)

FE: Listed as Endangered under the ESA.

FT: Listed as Threatened under the ESA.

X: Critical Habitat designated for this species

SE: Listed as Endangered under the CESA

ST: Listed as Threatened under the CESA

Of all the wildlife and all the listed species identified in the area, due to proximity to the well pumping and the nature of the proposed action, only a few species were identified to be assessed further in this EA. Affected environment information is provided below for these few species.

Aleutian Canada Goose, Bald Eagle, and Peregrine Falcon

The Aleutian Canada goose, Bald Eagle, Peregrine Falcon, and Yellow-Billed Cuckoo are occasional visitors to the EBCU. The Proposed Action would provide additional loafing, foraging, and roosting sites within the EBCU for Aleutian Canada Geese, Bald Eagles, and Peregrine Falcons.

Swainson's Hawk

Swainson's hawk is the most migratory of all North American buteos. It breeds and summers in the arid and semiarid regions of western North America and winters on the pampas of Argentina. The breeding population in California has declined by an estimated 90 percent. In 1979, the breeding population in California was estimated at 375 pairs. Trees commonly used for nesting in this area are cottonwoods, willows, and valley oaks. The principal foods in the Central Valley are meadow mice and small birds. Use of the area by Swainson's hawk coincides with the time of year when most of the seasonal wetlands have been allowed to dry for their annual growing season. Likewise, this species migrates south prior to the seasonal wetlands being flooded for wintering wildlife populations arriving in the fall. Nest sites do occur along the San Joaquin River, which is not located in the Proposed Action area. Grassland foraging areas and potential nest trees would not be disturbed.

San Joaquin Kit Fox

The San Joaquin kit fox, a State-listed threatened and Federally-listed endangered species, is a small nocturnal canid which now occurs in scattered populations from Contra Costa County south to Kern County. Historically, this species occupied extensive areas of semiarid lands in the San Joaquin Valley. Flat topography in valley bottoms with valley sink scrub, valley saltbush scrub, interior coast range saltbush scrub, nonnative grassland and alkali playa plain communities (described in Holland, 1986) are the typical habitat, but substantial populations have always inhabited the surrounding low foothills where slopes do not exceed 40 degrees (O'Farrell 1983). Agricultural, industrial, and urban developments have caused rapidly increasing rates of habitat loss.

The San Joaquin kit fox is an obligate year-round burrow dweller which feeds largely upon lagomorphs and kangaroo rats (but would utilize whatever prey is locally abundant). Numerous dens are excavated and inhabited in the course of a year and individuals may cover great distances while foraging and/or dispersing.

The San Joaquin kit fox is considered here because of the potential foraging habitat (irrigated pasture and seasonally flooded grassland and alkali sink scrub). No known active or potential kit fox dens have been observed within the project area.

3.3.2 Environmental Consequences

No Action

Conditions would remain the same as existing conditions if no action were taken. There would be no new impacts to wildlife, including threatened and endangered species, their critical habitat, or general habitat types.

Proposed Action

The acquisition of water supplies under the Proposed Action would result in the EBCU temporarily receiving more water than they would have received under the No Action Alternative. The additional water supplies would be delivered as needed starting fall 2016 through February 2021. The water would allow for improved management of the wetland habitat areas to benefit migratory and breeding waterfowl and other water birds within the EBCU. The water would be used for:

- fall flooding of seasonal marshes to allow for increased wildlife use;
- maintenance of additional acreage of late summer water and maintenance of permanent ponds for breeding wildlife;
- an increase in the amount and quality of watergrass, an important waterfowl food item;
- an increase in the “flow through” of water levels to decrease the potential for disease outbreaks;

- maintenance of water depths to provide optimal foraging conditions for water birds; and
- control of undesirable vegetation.

These management changes would improve water quality and habitat value for migrating water birds, which could also improve diversity. Until long-term water supplies become available and are acquired by Reclamation, this water is considered temporary and the benefits short-term. Therefore, the Proposed Action would result in beneficial impacts on vegetation and wildlife resources.

Cumulative Impacts

Implementation of the Proposed Action would not result in adverse effects to biological resources, and therefore could not contribute to cumulative impacts.

3.4 Air Quality Resources

3.4.1 Affected Environment

The Proposed Action occurs within the San Joaquin Valley Air Basin (SJVAB), the second largest air basin in the State. Air basins share a common “air shed”, the boundaries of which are defined by surrounding topography. Although mixing between adjacent air basins inevitably occurs, air quality conditions are relatively uniform within a given air basin. The San Joaquin Valley experiences episodes of poor atmospheric mixing caused by inversion layers formed when temperature increases with elevation above ground, or when a mass of warm, dry air settles over a mass of cooler air near the ground.

The U.S. Environmental Protection Agency (EPA) and California Air Resources Board developed Federal and State health-based air quality standards, known as National and California ambient air quality standards (NAAQS and CAAQS), for criteria air pollutants. Criteria air pollutants consist of carbon monoxide, ozone (volatile organic compounds [VOC] or reactive organic gas [ROG] are ozone precursors), sulfur dioxide, nitrogen dioxide, inhalable particulate matter between 2.5 and 10 microns in diameter (PM₁₀), particulate matter less than 2.5 microns in diameter (PM_{2.5}), and lead. The CAAQS also set standards for sulfates, hydrogen sulfide and visibility. The SJVAB lies within the management area of the San Joaquin Valley Air Pollution Control District (SJVAPCD), which is responsible for developing a local plan with control measures to meet or maintain the NAAQS/CAAQS. Section 110(a) of the Clean Air Act (42 U.S.C. 7401(a)) requires states to develop plans, known as State Implementation Plans (SIPs), that describe how they will attain NAAQS. Section 176(c) of the Clean Air Act (42 U.S.C. 7506(c)) requires that any entity of the federal government that engages in, supports, or in any way provided financial support for, licenses or permits, or approves any activity to demonstrate that the action conforms to the applicable SIP before the

action is otherwise approved. The EPA promulgated the General Conformity Rule to ensure that such federal actions are consistent with a SIP's purpose of eliminating or reducing the severity and number of violations of the NAAQS for criteria air pollutants and achieving expeditious attainment of those standards. If an action does not conform to the SIP, the Federal agency must submit a conformity determination to the EPA, State and local air pollution control agencies, and to the public. Federal actions that are exempt from the General Conformity Regulations include, but are not limited to, actions with associated emissions clearly at or below specified *de minimis* levels and activities covered under transportation conformity (USEPA 2016). The general conformity regulations apply to a proposed Federal action in a non-attainment or maintenance area if the total of direct and indirect emissions of the relevant criteria pollutants and precursor pollutant caused by a proposed action equal or exceed certain emissions thresholds, thus requiring the Federal agency to make a conformity determination.

Despite years of improvements, the SJVAB does not meet some NAAQS and CAAQS. The SJVAB is in nonattainment with the NAAQS for VOC and NO_x as ozone precursors and PM_{2.5}, and nonattainment with the CAAQS for PM₁₀. **Table 2** below presents the local thresholds, Federal general conformity *de minimis* emissions thresholds, and attainment status of the SJVAB.

Table 2 - SJVAB Attainment Status, Federal *De Minimis* Thresholds for General Conformity Determination, and SJVAPCD Thresholds

Pollutant	Attainment Status ^a	<i>De Minimis</i> Threshold (tons/year)	SJVAPCD Recommended Threshold of Significant Impact (tons/year) ^d
VOC (as ozone precursor)	Nonattainment – Extreme	10 ^b	10
NO _x (as ozone precursor)	Nonattainment – Extreme	10 ^b	10
PM ₁₀	Nonattainment - (CAAQS)	15 ^c	15
PM _{2.5}	Nonattainment	100 ^b	15
^a Source: http://www.arb.ca.gov/desig/adm/adm.htm ^b 40 CFR 93.153 ^c SJVAPCD Threshold: http://www.valleyair.org/transportation/ceqaanalysislevels.htm ^d http://www.valleyair.org/transportation/ceqaanalysislevels.htm#thresholds			

The Proposed Action would only result in emissions generated by intermittent groundwater pumping activities and no construction activities are proposed.

3.4.2 Environmental Consequences

There would not be construction or ground disturbance. The Proposed Action involves operating two existing diesel generators (80 horsepower & 139 horsepower) to pump groundwater intermittently when the other 5 electricity-powered well pumps are not able to maintain a 10 to 15 cfs flow rate into Bear Creek. These diesel engine-powered well pumps would only be used as necessary and shut off when the electric well pumps can maintain the flows required to meet USFWS demands at the EBCU pump station. As backup wells, they would be operated for up to three months a year, between October and January, emitting up to: 0.01792 tpy of ROG, 1.5354 tpy of NOx, 0.0852 tpy of PM10, 0.0852 tpy of PM2.5, and 203.5559 metric tpy of CO2 equivalents. Emissions from operating the generators for up to three months a year for five years would be far below the federal conformity and local thresholds. Therefore, the Proposed Action is exempt from the General Conformity Regulations, and a Federal general conformity analysis report is not required. The Proposed Action would not conflict or obstruct with the California SIP.

4 Consultation and Coordination

Reclamation intends to sign a Finding of No Significant Impact for this Project, and will make the EA available for fourteen days beginning in September 2016. Any comments received will be addressed in the FONSI. Additional analysis will be prepared if substantive comments identify impacts that were not previously analyzed or considered.

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