

Sunnyside Estates Maintenance District Water Meter Installation Project

San Joaquin County Public Works
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Technical Proposal and Evaluation Criteria

Executive Summary

Date: February 26, 2020

Applicant: San Joaquin County Public Works (County) - Stockton, San Joaquin County, California

The proposed project consists of installing 21 water meters on existing service connections in the Sunnyside Estates Maintenance District. Installation of water meters will encourage water conservation by district residents, aid the County with identifying system losses, and provide customers a more equitable cost allocation. Water metering is generally considered an effective water management tool, helping customers understand their water use and use the resource more efficiently. In other water districts managed by the County, an average 25% decrease in water use has been observed following installation of water meters.

The project is proposed to begin July 2020 and is estimated to be completed within 75 working days. The project is NOT located on a Federal facility.

Background Data

Sunnyside Estates Maintenance District (the District) is a dependent special district governed by San Joaquin County. The District was formed in 1967 to provide domestic water, storm drainage, and street lighting services to 21 residential properties, with an estimated population of 74 people. The District receives water from the City of Lodi through a 10-inch metered interconnect. The District's distribution system is operated and maintained by the County and was constructed in 1967. It consists of approximately 1,550 linear feet of asbestos-concrete main pipe with 21 one-inch copper service laterals. The water service laterals are currently unmetered and residents pay a flat rate charged annually on their property tax bill. The District's three-year average annual water usage is 6.05 million gallons.

Approximately half of the water provided by the City of Lodi is sourced from groundwater in the Eastern San Joaquin Subbasin, which is identified as being in a state of critical overdraft. Adopted policies and management plans focus on sustainability and reducing demand. The area is included in the [Eastern San Joaquin Subbasin Groundwater Sustainability Plan \(www.esjgroundwater.org\)](http://www.esjgroundwater.org), which was adopted by the County. This project would support the goals outlined in the plan by encouraging water conservation.

Project Location

The Sunnyside Estates Maintenance District Water Meter Project is in San Joaquin County, California, adjacent to the south-west corner of Lodi, California. The project center latitude and longitude are 38°06'08"N, 121°18'18"W. A site map is included in Appendix E.

Technical Project Description and Milestones

Sunnyside Estates Maintenance District currently has unmetered connections to the 21 residential properties within the District. Residents are unaware of the volume of water used, and higher users are subsidized by other district residents. Installation of water meters within the District will enable residents to understand and monitor their water use, which generally results in reduced water consumption. It will also ensure that higher users pay their share of costs.

Project milestones include:

- Project planning and final design (20 working days)
- Procurement (15 working days)
- Construction (20 working days)
- Project closeout/final reporting (20 working days)

Project Planning and Final Design – 20 working days

Tasks to be completed as part of planning and final design are:

- Finalize environmental compliance
- Finalize documents for procurement

As this project is modifying an existing piping system, a categorical exclusion will be requested.

In most locations, meters will be installed adjacent to the roadway and work will take place within the County right of way. Two of the meters will require work to occur on the residents' property, within the existing utility easement. No other permits are required for this project. Bid documents for this project will utilize existing County Improvement Standard drawings and specifications. Additional engineering work is minimal.

Procurement – 15 working days

The total project cost is less than the [Simplified Acquisition Threshold](#) and therefore the small purchase procedures will be used where price/rate quotations will be obtained from an adequate number of qualified sources.

Construction – 20 working days

The project will install 21 radio-read water meters on the existing one-inch service connections within the District. The work will include:

- Excavation to expose the service lateral
- Installation of a radio-read meter, ball angle meter stop, and meter box (per County Improvement Standards)
- Disinfection of piping
- Restoration of work area

Inspection services during construction will be performed by County staff. Project management tasks will include public outreach, submittal and schedule review, and contract oversight.

Project Closeout/Final Reporting – 20 working days

As this is a small project, with construction work expected to be completed within 20 working days, final closeout and reporting will take place after all meters are installed and inspected. Project closeout will include processing project payment, finalizing the notice of completion to accept the project, and final financial and performance reports to meet the grant requirements.

Evaluation Criteria

As suggested, this section contains the evaluation criteria copied from the announcement. The County's responses are in **blue**.

E.1.1. Evaluation Criterion A—Project Benefits (35 points)

- Describe the expected benefits and outcomes of implementing the proposed project.
 - What are the benefits to the applicant's water supply delivery system?

The proposed water meter installations will aid the County with identifying system losses resulting in a more efficient water delivery system.

- If other benefits are expected explain those as well.

The proposed water meter installations will also encourage water conservation by District residents and provide customers a more equitable cost allocation which can lead to securing future water supplies for the water provider. Water metering is generally considered an effective water management tool, helping customers understand their water use and use the resource more efficiently. In other water Districts managed by the County, an average 25% decrease in water use has been observed following installation of water meters.

Consider the following:

- Extent to which the proposed project improves overall water supply reliability / The expected geographic scope benefits from the proposed project (e.g., local, subbasin, basin)

The proposed project, and anticipated water conservation resulting from it, will help in reducing groundwater overdraft from the Eastern San Joaquin Subbasin and the Mokelumne River watershed. The Eastern San Joaquin subbasin is considered a critically overdrafted groundwater basin by the Department of Water Resources and efforts to reduce this overdraft aligns with the intent of the Sustainable Groundwater Management Act (SGMA).

- Extent to which the proposed project will increase collaboration and information sharing among water managers in the region

Tracking water usage and potential reduction in groundwater basin overdraft may be relayed to the Eastern San Joaquin Groundwater Authority providing information for its Groundwater Sustainability Plan. Meter usage data may also be shared with other agencies to track residential water usage to assist with planning and forecasting.

- Any anticipated positive impacts/benefits to local sectors and economies (e.g., agriculture, environment, recreation, tourism)

Reducing water use will improve recreational water quality and quantity for the Mokelumne River.

- Extent to which the project will complement work done in coordination with NRCS in the area (e.g., with a direct connection to the district's water supply). Describe any on-farm efficiency work that is currently being completed or is anticipated to be completed in the future using NRCS assistance through EQIP or other programs.

N/A

E.1.2. Evaluation Criterion B—Planning Efforts Supporting the Project (35 points)

Up to **35 points** may be awarded based on the extent to which the proposed on-the-ground project is supported by an applicant's existing water management plan, water conservation plan, System Optimization Review, or identified as part of another planning effort led by the applicant. This criterion prioritizes projects that are identified through local planning efforts and meet local needs.

Describe how your project is supported by an existing planning effort.

The proposed project aligns with the County Board of Supervisors-adopted [Eastern San Joaquin Subbasin Groundwater Sustainability Plan \(www.esjgroundwater.org\)](http://www.esjgroundwater.org), whose goals are to provide for reliable water supplies in order to sustain the social, environmental and economic viability of the community.

- Does the proposed project implement a goal or address a need or problem identified in the existing planning effort?

The proposed project will reduce further overdraft of the local groundwater basin through water conservation efforts and system monitoring.

- Explain how the proposed project has been determined as a priority in the existing planning effort as opposed to other potential projects/measures.

The reduction and prevention of groundwater basin overdraft and maintenance of the long-term sustainability of the Eastern San Joaquin Basin are the goals of the existing planning effort, to which the proposed project will contribute through reduction of water consumption. Details of the Eastern San Joaquin Subbasin Groundwater Sustainability plan are available at www.esjgroundwater.org.

E.1.3. Evaluation Criterion C—Project Implementation (10 points)

Up to **10 points** may be awarded based upon the extent to which the applicant is capable of proceeding with the proposed project upon entering into a financial assistance agreement. Applicants that describe a detailed plan (e.g., estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates) will receive the most points under this criterion.

- Describe the implementation plan for the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates.

The proposed project is to begin July 2020 with an estimated completion date of 75 working days. Details of project milestones and implementation can be found in the [Technical Project Description and Milestones](#) section of the grant application.

- Describe any permits that will be required, along with the process for obtaining such permits.

Permit requirements are minimal as most of the water meters will be installed adjacent to the roadway and work will take place within the County right of way. Two of the meters will require work to occur on the residents' property, within the existing utility easement. No other permits are required for this project.

- Identify and describe any engineering or design work performed specifically in support of the proposed project.

Water meter installation will conform to current County Improvement Standards, with minimal engineering or design work performed by County staff. Inspection services during construction will be performed by County staff.

- Describe any new policies or administrative actions required to implement the project.

N/A

- Describe how the environmental compliance estimate was developed. Have the compliance costs been discussed with the local Reclamation office?

N/A

E.1.4. Evaluation Criterion D— Nexus to Reclamation (10 points)

Up to **10 points** may be awarded based on the extent that the proposal demonstrates a nexus between the proposed project and a Reclamation project or activity. Describe the nexus between the proposed project and a Reclamation project or activity, including:

- Is the proposed project connected to a Reclamation project or activity? **No**
- Will the project benefit any tribe(s)? **No**

E.1.5. Evaluation Criterion E— Department of the Interior and Bureau of Reclamation Priorities (10 points)

Up to **10 points** may be awarded based on the extent that the proposal demonstrates that the project supports Department and Reclamation priorities. Please address those priorities that are applicable to your project. It is not necessary to address priorities that are not applicable to your project. A project will not necessarily receive more points simply because multiple priorities are addressed. Points will be allocated based on the degree to which the project supports one or more of the Priorities listed, and whether the connection to the priority(ies) is well supported in the proposal.

Department Priorities

1. Creating a conservation stewardship legacy second only to Teddy Roosevelt

- Utilize science to identify best practices to manage land and water resources and adapt to changes in the environment; **Water meters are critical technology that help conserve water, improve water management, and increase water use efficiency.**
- Examine land use planning processes and land use designations that govern public use and access; **N/A**
- Revise and streamline the environmental and regulatory review process while maintaining environmental standards. **N/A**
- Review DOI water storage, transportation, and distribution systems to identify opportunities to resolve conflicts and expand capacity; **N/A**
- Foster relationships with conservation organizations advocating for balanced stewardship and use of public lands; **N/A**
- Identify and implement initiatives to expand access to DOI lands for hunting and fishing; **N/A**
- Shift the balance towards providing greater public access to public lands over restrictions to access. **N/A**

2. Utilizing our natural resources

- Ensure American Energy is available to meet our security and economic needs; **N/A**

- b. Ensure access to mineral resources, especially the critical and rare earth minerals needed for scientific, technological, or military applications; **N/A**
- c. Refocus timber programs to embrace the entire ‘healthy forests’ lifecycle; **N/A**
- d. Manage competition for grazing resources. **N/A**

3. *Restoring trust with local communities*

- a. Be a better neighbor with those closest to our resources by improving dialogue and relationships with persons and entities bordering our lands; **N/A**
- b. Expand the lines of communication with Governors, state natural resource offices, Fish and Wildlife offices, water authorities, county commissioners, Tribes, and local communities. **N/A**

4. *Striking a regulatory balance*

- a. Reduce the administrative and regulatory burden imposed on U.S. industry and the public; **N/A**
- b. b. Ensure that Endangered Species Act decisions are based on strong science and thorough analysis. **N/A**

5. *Modernizing our infrastructure*

- a. Support the White House Public/Private Partnership Initiative to modernize U.S. infrastructure; **The project will support modernizing existing infrastructure. Installing meters will allow the District and the County to better monitor water consumption and identify potential leaks that may otherwise go undetected.**
- b. Remove impediments to infrastructure development and facilitate private sector efforts to construct infrastructure projects serving American needs; **N/A**
- c. Prioritize DOI infrastructure needs to highlight: **N/A**
 - i. Construction of infrastructure; **N/A**
 - ii. Cyclical maintenance; **N/A**
 - iii. Deferred maintenance. **N/A**

Reclamation Priorities

- 1. Increase Water Supplies, Storage, and Reliability under WIIN and other Authorities **N/A**
- 2. Streamline Regulatory Processes and Remove Unnecessary Burdens to Provide More Water and Power Supply Reliability; **N/A**
- 3. Leverage Science and Technology to Improve Water Supply Reliability to Communities **N/A**
- 4. Address Ongoing Drought **Yes, this project will reduce water consumption and reduce demand on available water supplies.**

5. Improve the Value of Hydropower to Reclamation Power Customers; N/A
6. Improve Water Supplies for Tribal and Rural Communities; N/A
7. Implementation of new Title Transfer authority pursuant to P.L. 116-9; N/A

Project Budget

Funding Plan and Letters of Commitment

Sunnyside Estates Maintenance District received settlement funds in 2002 resulting from litigation due to contamination in their drinking water. At that time, the District’s water was sourced from two wells. A portion of the settlement funds were used to connect Sunnyside to the City of Lodi water system and abandon the wells. As no further remediation is required, the remaining funds may be used for other District expenses. The funds are held in a Special District Settlement Fund, of which \$52,000 is available for use by Sunnyside for the non-federal share of project costs. No additional outside funding is required.

Budget Proposal

Table 1 - Total Project Cost Table

SOURCE	AMOUNT
Costs to be reimbursed with the requested Federal funding	\$51,999.29
Costs to be paid by the applicant	\$51,999.30
Value of third-party contributions	\$0
TOTAL PROJECT COST	\$103,998.59

Table 2 – Budget Proposal

Finalize Project Documents	\$/unit	Quantity	Quantity Type	Total Cost
Salaries and Wages				
Project Manager Dwayne Sabiniano – Engineering Assistant III	\$41.73	10	hours	\$417.30
Fringe Benefits				
Project Manager	\$26.19	10	hours	\$261.90
Environmental Compliance				
Consultant	\$170	15	hours	\$2,550
Bureau of Reclamation Costs (see breakdown in Appendix A)	\$8,241.05	1	lump sum	\$8,241.05

Procurement	\$/unit	Quantity	Quantity Type	Total Cost
Salaries and Wages				
Project Manager Dwayne Sabiniano – Engineering Assistant III	\$41.73	10	hours	\$417.30
Fringe Benefits				
Project Manager	\$26.19	10	hours	\$261.90
Construction				
Salaries and Wages				
Project Manager Dwayne Sabiniano – Engineering Assistant III	\$41.73	10	hours	\$417.30
Utility Maint Worker II	\$29.52	60	hours	\$1,771.20
Fringe Benefits				
Project Manager	\$26.19	10	hours	\$261.90
Utility Maint Worker II	\$22.24	60	hours	\$1,334.40
Contractual/Construction				
Meter installation	\$4,000	21	per meter	\$84,000
Project Closeout/ Final Reporting				
Salaries and Wages				
Project Manager Dwayne Sabiniano – Engineering Assistant III	\$41.73	10	hours	\$417.30
Fringe Benefits				
Project Manager	\$26.19	10	hours	\$261.90
TOTAL DIRECT COSTS				\$100,613.45
Indirect Costs				
Federal negotiated indirect cost rate (for total direct County labor and fringe charges)	58.14%	Direct labor costs \$5,822.40	percent	\$3,385.14
TOTAL ESTIMATED PROJECT COSTS				\$103,998.59

Budget Narrative

The budget for this project was prepared to include the following tasks as described in the technical project description:

- Finalize project documents – includes project manager time to finalize documents for bid.

- Environmental compliance – all environmental compliance at the County is performed by a consultant, who is under separate contract for these services.
- Procurement – project management time to include distribution of bid documents, reviewing received bids, and coordinating contract issuance.
- Construction – budget includes project management time and utility maintenance workers, who will perform inspection and water service shut-offs. Installation of the meters to be performed by selected contractor.
- Project closeout/final reporting - includes project manager time to prepare final payment, closeout documents, and final financial and performance reports.

Salaries and wages

The project manager and utility maintenance workers are employees of San Joaquin County. The listed hourly rates are the standard rates paid for these positions for all Federal and non-Federal activities and complies with the salary classification table published by the County.

Fringe

The fringe rates include all benefits paid to employees as outlined by the Memorandum of Understanding for that job classification and includes health/dental/vision/life insurance (fixed contributions based on insurance type selected by the employee), and retirement benefits (40.39%). It also includes payments made by the County on the employee's behalf for Social Security (6.20%), Medicare (1.45%), and unemployment insurance (0.05%).

Indirect Cost Rate

Information on the Indirect Cost Rate is contained in Appendix F.

Appendix A
Environmental and Cultural Resources Compliance

FY20 SWEF Grant
Cost Estimate for, CGB-153 Cultural and CGB-152 Environmental
(Costs for In-House Review Only)

San Joaquin County Public Works: Pre-application FY20 SWEF Grant Cultural Resources Cost Estimate Request

Cultural Resources:

Project Description: The proposed project consists of installing water meters on 21 existing service connections in the Sunnyside Estates Maintenance District. Installation of water meters in the district will encourage water conservation by district residents, aid the County with identifying system losses, and provide customers a more equitable cost allocation. The project is in an approximately 8.5-acre developed residential subdivision. Construction work would be limited to minor trenching in 21 locations within the public right-of-way or utility easements to access existing water service lines. In most locations, meters will be installed adjacent to the roadway and work will take place within the County right-of-way. Two of the meters will require work to occur on the residents' property, within the existing utility easement. County records indicate that the residential subdivision map was recorded on May 12, 1967. Domestic water service was installed in or after 1968.

The estimate provided below is a conservative estimate that assumes some level of cultural resources reporting may be necessary since minor excavations are anticipated.

Assumptions:

- 1) One Reclamation Archaeologist at GS-11-5, one Reclamation Archaeologist at GS-9-10, and one Architectural Historian GS-12-9.
- 2) Costs are non-reimbursable.
- 3) Reclamation is in a review and consultation role only (Reclamation will not complete cultural resources inventory or evaluation reporting).
- 4) If needed, a separate cultural resources inventory and evaluation report will be completed by the applicant's cultural resources contractor and submitted to Reclamation's cultural staff for review. **Please coordinate with Reclamation's cultural resources staff on the level of effort and qualifications of contractor's staff needed for this reporting prior to survey work being conducted, to determine the level of effort needed.** The reporting may result in survey of the project footprint [including any ground disturbance areas, staging, and access routes] by the applicant's cultural resources consultant. Any cultural resources found will need to be evaluated for the National Register of Historic Places.
- 5) Tribal consultation will be conducted by Reclamation cultural resources staff.
- 6) The vertical area of potential effect (APE) will need to be determined for any ground disturbing activities, so consultant may need to create and employ a buried sites identification plan, scoped to the proposed project activities.
- 7) Geoarchaeological sensitivity assessment for buried resources must be included within the reporting and be scoped to the proposed project activities.
- 8) Assumes the project will result in, at maximum, no adverse effect to historic properties, otherwise costs will go up. Additional cost estimate for resolution of adverse effect and execution of a Memorandum of Agreement can be provided, if needed.

FY20 SWEP Grant
Cost Estimate for, CGB-153 Cultural and CGB-152 Environmental
(Costs for In-House Review Only)

- 9) Assumes there are no prehistoric sites identified in the APE. If prehistoric sites are identified, additional consultation and coordination may be required. This could result in an increase in costs.
- 10) Reclamation cultural staff will review and provide content for National Environmental Policy Act (NEPA) documentation.

Position	Hours	Cost	Tasks
Archaeologist (11-5)	32	\$3,030.40	2 (phone) Meeting Provide Guidance for Applicant/Consultant GIS Mapping Report Review SHPO Consultation NEPA Section Preparation/Review Peer Review Tribal consultation
Archaeologist (9-10)	32	\$2,873.60	Tribal Consultation GIS Mapping SHPO Consultation Review Peer Review SHPO consultation
Architectural Historian (12-8)	2	247.05	Peer review any built environment aspects
Regional (13-5) Archaeologist	2	\$270.00	Review and Signature
			Total: \$6,421.05
Travel Costs		0	

Environmental:

Position	Hours	Cost	Tasks
Natural Resource Specialist	10	\$1100	Prepare CEC and prepare or review endangered species assessment
Natural Resource Specialist (Endangered Species)	0	\$0	Review endangered species assessment and consultation if needed
Natural Resource Specialist (Review)	4	\$440	Review CEC
Supervisory Natural Resource Specialist (Review and approval)	2	\$280	Final CEC review and branch approval
TOTAL		\$1820.00	
Travel Costs		0	

It is the project sponsor's responsibility for any field studies and subsequent study reports. The Environmental Compliance Branch only reviews and comments on the reports.

Section H. Other Information

H.1 Environmental and Cultural Resource Considerations

The following statements respond to the information required on pp. 43-44 of the WaterSMART Grant application. An Environmental Checklist using the Bureau's Department Manual example checklist follows.

1. Will the project impact the surrounding environment (e.g. soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts?
 - a. No. The water-meter installation project would not adversely affect the surrounding environment. The project setting is a developed, approximately 8.5-acre residential subdivision. Construction work would be limited to minor trenching in 21 locations within the public right-of-way or utility easements to access existing water service lines. All trenches would be backfilled with the excavated native soil, and street pavement would be patched with hot mix asphalt or equivalent.
 - b. The principal environmental impacts caused by project construction would be excessive noise from equipment used for excavation/trenching. However, noise would be intermittent, limited to daylight hours per the San Joaquin County Noise Ordinance, and would cease when construction is complete. No long-term impacts from noise would be anticipated.
 - c. See Environmental Checklist below.
2. Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?
 - a. No. A records search showed that there are no such species likely to occur in the project area, largely because there is no natural habitat present. See response to Environmental Checklist Question 10 below, and Attachment 2 (U.S. Fish and Wildlife Service IPaC database query results, accessed February 2020).
3. Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "Waters of the United States?" If so, please describe and estimate any impacts the proposed project may have.
 - a. No. There are no jurisdictional wetlands or other surface waters in the project area. See response to Environmental Checklist Question 4 below, and Attachment 1, p. 4.
4. When was the water delivery system constructed?
 - a. County records indicate that the residential subdivision map was recorded on May 12, 1967. Domestic water service was installed in or after 1968.
5. Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g. headgates, canals or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.
 - a. N/A – The proposed water meters would be installed on residential service water lines.

6. Are there any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resource specialist at your local Reclamation Office or the State Historic Preservation Office can assist in answering this question.
 - a. No. The project area is a fully-developed suburban residential subdivision containing no historic structures. County records indicate that the subdivision map was recorded on May 12, 1967. Although the residences were likely constructed between 1968-1970, and thus are older than 50 years, they appear to be conventional production housing with no historic value.
7. Are there any known archeological sites in the proposed project area?
 - a. No. The project area is a fully-developed suburban residential subdivision containing no known archaeological sites.
8. Will the proposed project have a disproportionately high and adverse effect on low-income or minority populations?
 - a. No. See response to Environmental Checklist Question 13 below.
9. Will the proposed project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?
 - a. No. See response to Environmental Checklist Questions 12 and 14 below.
10. Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?
 - a. No. The project is limited to excavation to access water service lines and installation of water meters. See response to Environmental Checklist Question 15 below.

U.S. Department of the Interior, Bureau of Reclamation

WaterSMART Grants: Small-Scale Water Efficiency Projects ENVIRONMENTAL CHECKLIST

Project: Installation of Radio-Read Water Meters

Date: March 4, 2020

Agency: San Joaquin County, Department of Public Works

Nature of Action: The proposed project consists of installing radio-read water meters on 21 existing one-inch service connections in the approximately 8.5-acre Sunnyside Estates Maintenance District, San Joaquin County (Lodi environs), California. In most locations, meters will be installed adjacent to the roadway and work will take place within the County right of way. Two of the meters will require work to occur on the residents' property, within the existing utility easement.

Work includes:

- Excavation to expose the service lateral
- Installation of a radio-read meter, ball angle meter stop, and meter box (per County improvement standards)
- Disinfection of piping
- Restoration of work area

Exclusion Category:

1. **43 CFR § 46.210(f):** Routine and continuing government business, including such things as supervision, administration, operations, maintenance, renovations, and replacement activities having limited context and intensity (e.g., limited size and magnitude or short-term effects).
2. **516 DM 14.5(D): Operation and Maintenance Activities**
(1) Maintenance, rehabilitation, and replacement of existing facilities which may involve a minor change in size, location, and/or operation.

Evaluation of Criteria for Categorical Exclusion

	YES	UNCER-TAIN	NO
1. This action or group of actions will have a significant effect on the quality of the human environment.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. This action or group of actions will involve unresolved conflicts concerning alternative uses of available resources.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. This action will have significant adverse effects on public health or safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Evaluation of Criteria for Categorical Exclusion

	YES	UNCER-TAIN	NO
4. This action will have an adverse effect on unique geological features such as wetlands, wild or scenic rivers, rivers placed on the nationwide river inventory, refuges, floodplains, or prime or unique farmlands.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. This action will have highly controversial effects.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. This action will have highly uncertain environmental effects or involve unique or unknown environmental risk.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. This action will establish a precedent for future actions.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. This action is related to other actions with individually insignificant but cumulative significant environmental effects.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. This action will adversely affect properties listed or eligible for listing in the National Register of Historical Places.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. This action will adversely affect a species listed or proposed to be listed as endangered or threatened.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. This action threatens to violate Federal, state, local, executive or Secretarial orders, or tribal law or requirements imposed for protection of the environment.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. This action will affect Indian Trust Assets.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. This action will have a disproportionately high and adverse human health or environmental effects on low income or minority populations.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. This action will limit access to ceremonial use of Indian sacred sites on Federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. This action will contribute to the introduction, continued existence, or spread of noxious weeds or nonnative invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NEPA ACTION:

- Categorical Exclusion**
- EA**
- EIS**

Environmental commitments, explanation, and/or remarks:

1. Installing water meters on existing service connections is not anticipated to cause significant environmental impacts, because the area is already developed with suburban-scale residential uses, and each residence is already served with a water line. There is no natural habitat in the area, which is surrounded by suburban and agricultural uses. See Attachment 1, p. 1, Aerial View.
2. This action would not contribute to conflicts over local water use in part because the residential development exists now (rather than being a proposed new development with new water demands), and presumably conflicts over competing water use in the area (agricultural vs. residential) have been resolved. Additionally, the water meter installation will enable residents to measure water consumption and will support water conservation measures.
3. Installing water meters on existing service connections is a common practice in public works facility maintenance, involves no hazardous materials, and will not affect water quality. No significant adverse effects on public health or safety are anticipated.
4. The project area is a suburban residential subdivision and does not contain resources such as unique geologic features, wetlands, rivers, refuges, floodplains or prime/unique farmlands. See Attachment 1, pp. 2-4 (flood map, important farmland map and wetlands map) and Attachment 2 (USFW IPac Species/Wetlands/Refuges inventory).
5. Installing water meters on existing water lines is a common practice in public works facility maintenance and is not anticipated to generate controversy over environmental issues.
6. Installing water meters on existing water lines will require minor trenching at various locations within an approximately 8.5-acre established subdivision to access the lines. Trenching is a common practice in public works facility maintenance. No highly-uncertain environmental effects are anticipated.
7. The County of San Joaquin will likely pursue installing water meters at other locations in the future. However, despite the “precedent” that the proposed action would create, i.e., establishment of water meters, the action is not of itself an environmentally-harmful activity or construction.
8. Installing water meters would not be expected to generate considerably cumulative effects even if the County proceeds with future projects to install water meters elsewhere. Rather, the cumulative effects of installing water meters would likely be reduction in potable water consumption, and water conservation.
9. The proposed project would not affect properties listed or proposed to be listed in the National Register of Historic Places. County records indicate that the subdivision map was recorded on May 12, 1967. Although the residences were likely constructed between 1968-1970, and thus are older than 50 years, they appear to be conventional production housing with no historic value.
10. The proposed project would not be expected to affect listed species, or species proposed to be listed because no natural habitat exists within the project area. Moreover, a records search of the U.S. Fish and Wildlife IPaC resource database did not show any recorded observations of listed species in the project area. See Attachment 2, IPaC Species List.
11. The proposed project would not be expected to violate any environmental laws, as it is limited to installing metering devices on existing water service lines, and would not involve hazardous substances or affect environmentally-sensitive resources, including wetlands.

12. No known Indian Trust Assets lie within the approximately 8.5-acre project area.
13. The proposed project would not have adverse human health or environmental effects on low-income or minority populations because it is limited to installation of metering devices on existing water service lines, and would not generate air pollutants or involve hazardous substances.
14. The proposed project will be conducted either on San Joaquin County right-of-way or within existing utility easements, not on Federal lands where Indian sacred sites are located.
15. The proposed project would not introduce non-native noxious weeds or other invasive species because it is limited to installing metering devices on existing water lines and involves no landscaping. Moreover, the project does not require large-scale earthwork, which disturbs soil that is typically populated with such species barring intervention to prevent seeds from germinating.

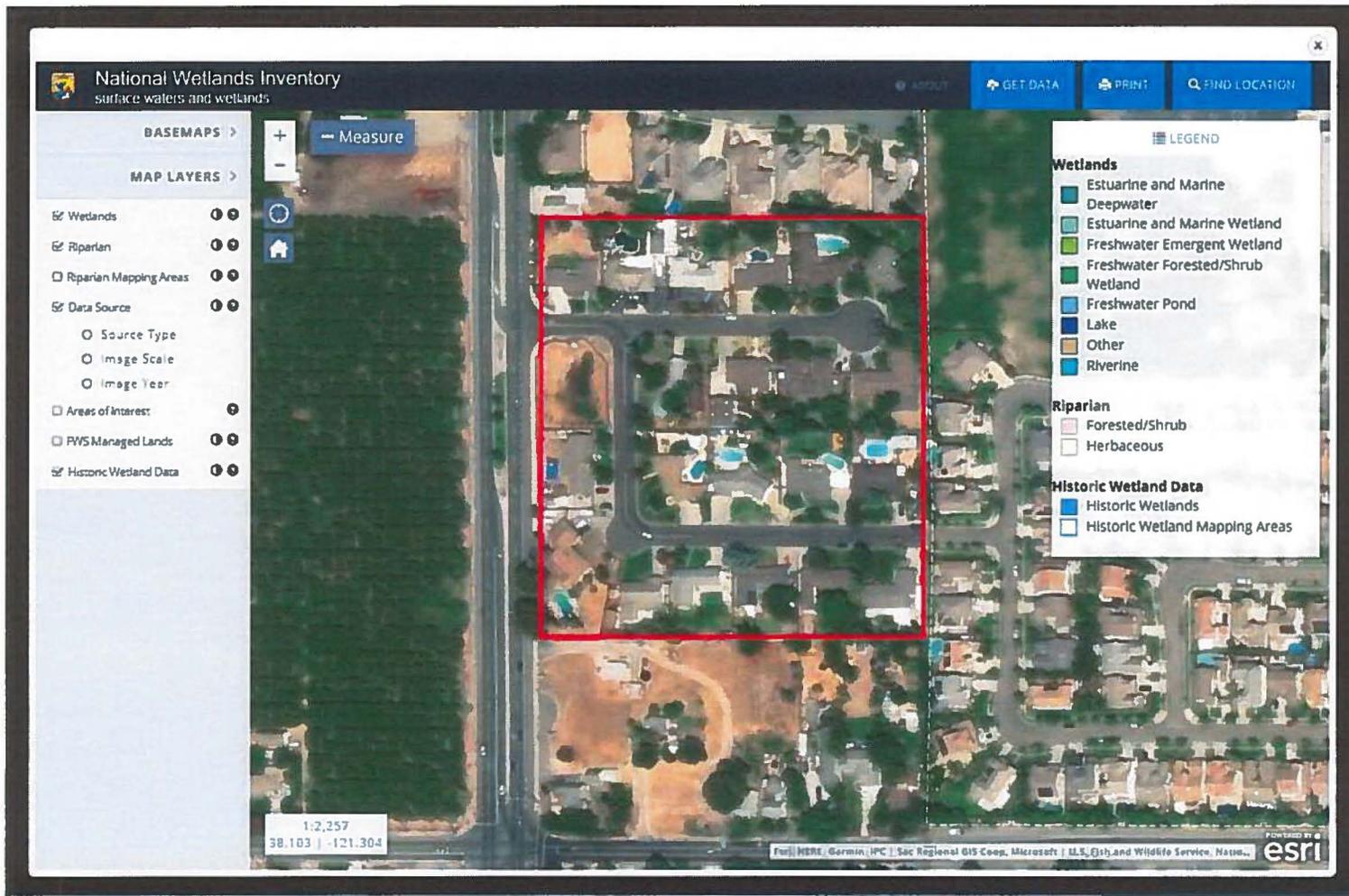
<i>Name</i> Christine Kudija, JD., AICP; Principal Planner, Willdan Engineering	<i>Date</i> 2/13/2020
Preparer's Name and Title	Date

Regional Archeologist concurrence with Item 9:
(tbd)

ITA Designee concurrence with Item 10:
(tbd)

Approved:

Regional Environmental Officer	Date
---------------------------------------	-------------



Attachment 1
 Sunnyside Estates Maintenance District
 National Wetlands Inventory – Wetlands Mapper
<https://www.fws.gov/wetlands/data/Mapper.html> (accessed 2/13/2020)

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

San Joaquin County, California



Local office

Sacramento Fish And Wildlife Office

☎ (916) 414-6600

📅 (916) 414-6713

Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME

STATUS

Riparian Brush Rabbit <i>Sylvilagus bachmani riparius</i>	Endangered
No critical habitat has been designated for this species.	
https://ecos.fws.gov/ecp/species/6189	

Reptiles

NAME	STATUS
Giant Garter Snake <i>Thamnophis gigas</i>	Threatened
No critical habitat has been designated for this species.	
https://ecos.fws.gov/ecp/species/4482	

Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i>	Threatened
There is final critical habitat for this species. Your location is outside the critical habitat.	
https://ecos.fws.gov/ecp/species/2891	
California Tiger Salamander <i>Ambystoma californiense</i>	Threatened
There is final critical habitat for this species. Your location is outside the critical habitat.	
https://ecos.fws.gov/ecp/species/2076	

Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i>	Threatened
There is final critical habitat for this species. Your location is outside the critical habitat.	
https://ecos.fws.gov/ecp/species/321	

Insects

NAME	STATUS
Valley Elderberry Longhorn Beetle <i>Desmocerus californicus dimorphus</i>	Threatened
There is final critical habitat for this species. Your location is outside the critical habitat.	
https://ecos.fws.gov/ecp/species/7850	

Crustaceans

NAME	STATUS
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Vernal Pool Fairy Shrimp *Branchinecta lynchi* Threatened
 There is final critical habitat for this species. Your location is outside the critical habitat.
<https://ecos.fws.gov/ecp/species/498>

Vernal Pool Tadpole Shrimp *Lepidurus packardii* Endangered
 There is final critical habitat for this species. Your location is outside the critical habitat.
<https://ecos.fws.gov/ecp/species/2246>

Flowering Plants

NAME	STATUS
Fleshy Owl's-clover <i>Castilleja campestris</i> ssp. <i>succulenta</i> There is final critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/8095	Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>

- Nationwide conservation measures for birds
<http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
Burrowing Owl <i>Athene cunicularia</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9737	Breeds Mar 15 to Aug 31
California Thrasher <i>Toxostoma redivivum</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jan 1 to Jul 31
Common Yellowthroat <i>Geothlypis trichas sinuosa</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/2084	Breeds May 20 to Jul 31

<p>Lawrence's Goldfinch <i>Carduelis lawrencei</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9464</p>	Breeds Mar 20 to Sep 20
<p>Lewis's Woodpecker <i>Melanerpes lewis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9408</p>	Breeds Apr 20 to Sep 30
<p>Long-billed Curlew <i>Numenius americanus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/5511</p>	Breeds elsewhere
<p>Marbled Godwit <i>Limosa fedoa</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9481</p>	Breeds elsewhere
<p>Nuttall's Woodpecker <i>Picoides nuttallii</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9410</p>	Breeds Apr 1 to Jul 20
<p>Oak Titmouse <i>Baeolophus inornatus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9656</p>	Breeds Mar 15 to Jul 15
<p>Short-billed Dowitcher <i>Limnodromus griseus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480</p>	Breeds elsewhere
<p>Song Sparrow <i>Melospiza melodia</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	Breeds Feb 20 to Sep 5
<p>Spotted Towhee <i>Pipilo maculatus clementae</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/4243</p>	Breeds Apr 15 to Jul 20

Tricolored Blackbird <i>Agelaius tricolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3910	Breeds Mar 15 to Aug 10
Whimbrel <i>Numenius phaeopus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9483	Breeds elsewhere
Wrentit <i>Chamaea fasciata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 10
Yellow-billed Magpie <i>Pica nuttalli</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9726	Breeds Apr 1 to Jul 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of

presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (☀)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

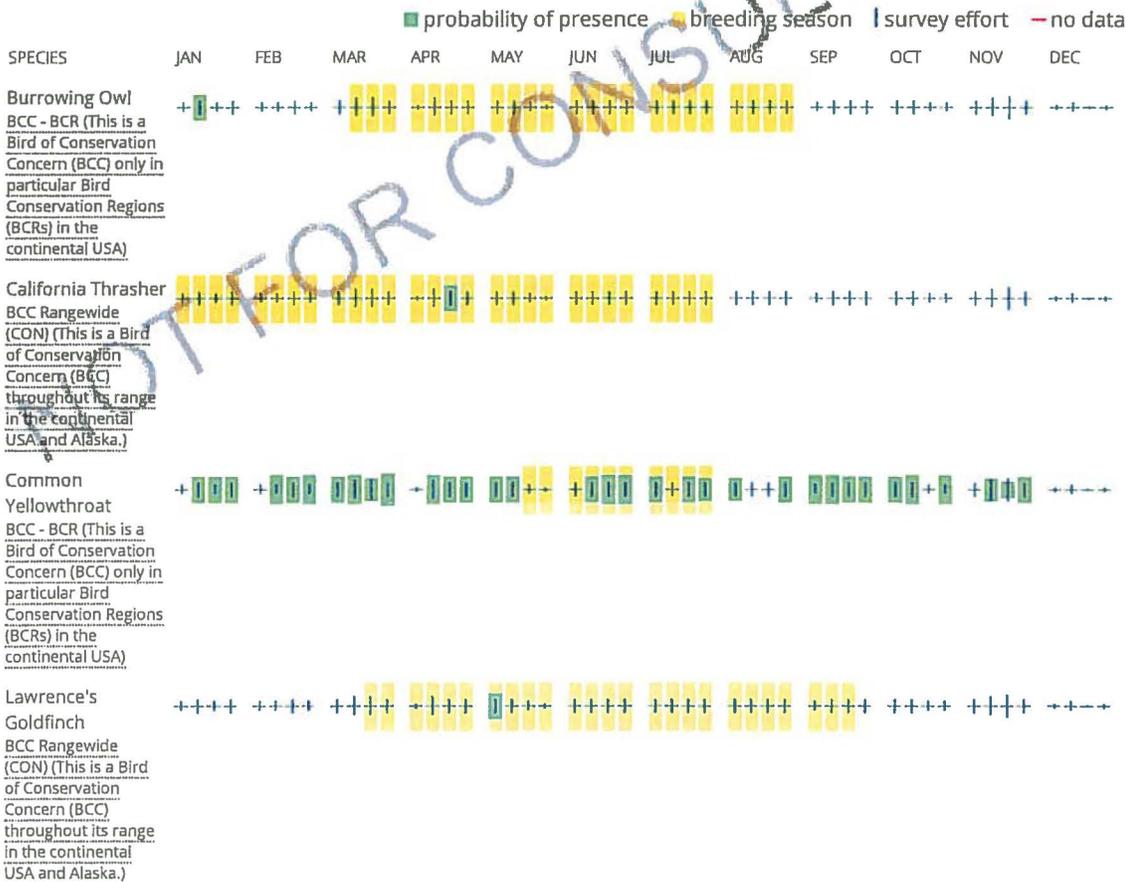
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

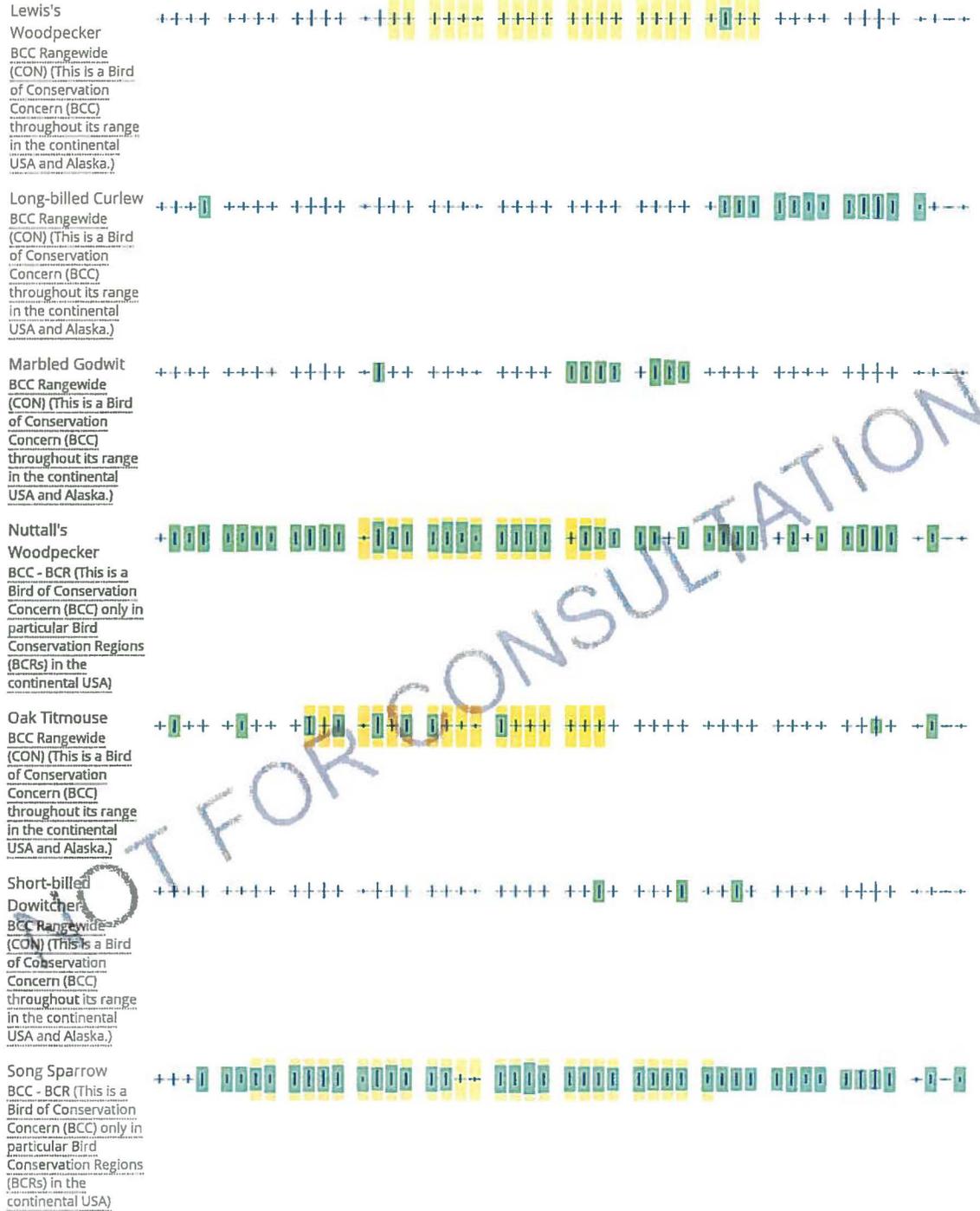
No Data (—)

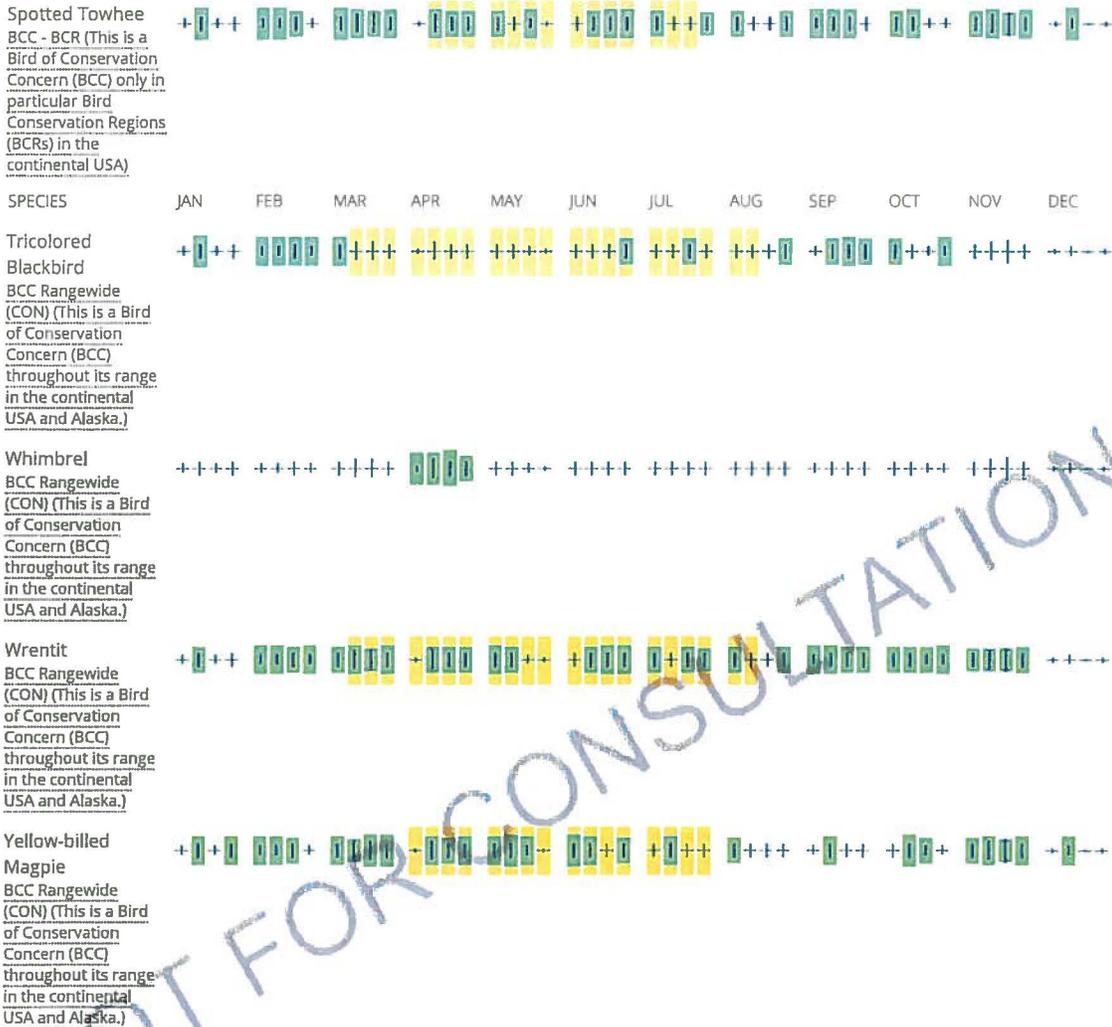
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.







Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project

intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Appendix B Required Permits or Approvals

No permits or approvals are required for this project. Work will take place on existing water lines within the limits of the current County right-of-way or utility easements.

Appendix C
Official Resolutions

Attached is the draft resolution that is scheduled to be presented for approval by the Board of Supervisors on March 24, 2020.

BEFORE THE BOARD OF SUPERVISORS OF THE COUNTY OF SAN JOAQUIN
STATE OF CALIFORNIA

R E S O L U T I O N

R-

RESOLUTION AUTHORIZING THE DIRECTOR OF PUBLIC WORKS TO COMMIT
TO THE FINANCIAL AND LEGAL OBLIGATIONS ASSOCIATED WITH
RECEIPT OF A WATERSMART GRANT

WHEREAS, the Board of Supervisors approved water conservation initiatives (R-09-275), which included a phased approach to water meter installations in special districts where funding is available; and,

WHEREAS, the Department applied for a Grant through the United States Department of the Interior, Bureau of Reclamation (USBR) for the installation of water meters to promote water conservation; and,

WHEREAS, USBR requires a Resolution from the San Joaquin County Board of Supervisors, authorizing an officer of San Joaquin County (County) to commit to the financial and legal obligations associated with receipt of the Grant; and,

WHEREAS, the County is required to provide matching funds at the rate of one dollar for every one dollar requested from USBR and/or in-kind contributions specified in the funding plan.

NOW, THEREFORE, BE IT RESOLVED that the San Joaquin County Board of Supervisors authorizes the Director of Public Works, or the Director's designee, to review, approve and execute Grant related documents, including the Grant agreement, amendments, and any other documentation associated with receipt of Grant funding, and commit to the associated legal and financial obligations; and,

BE IT FURTHER RESOLVED that the Board of Supervisors does hereby authorize matching funds at the rate of one dollar for every one dollar requested from USBR and that sufficient funding is available in the Special District Settlement Fund to provide the required match; and,

BE IT FURTHER RESOLVED that the County will work with USBR to meet established deadlines for entering into a Grant or cooperative agreement; and,

BE IT FURTHER RESOLVED that these authorizations shall remain in effect until such time as they are revoked by this Board of Supervisors.

PASSED AND ADOPTED _____, by the following vote of the Board of Supervisors, to wit:

AYES:

NOES:

ABSENT:

ABSTAIN:

ATTEST: RACHÉL DeBORD
Clerk of the Board of Supervisors
County of San Joaquin,
State of California

KATHERINE M. MILLER
Chair, Board of Supervisors
County of San Joaquin,
State of California

By _____
Deputy Clerk



Appendix D
Unique Entity Identifier and System for Award Management



ALERT: SAM.gov will be down for scheduled maintenance Saturday, 02/15/2020 from 8:00 AM to 3:00 PM

Entity Dashboard

SAN JOAQUIN, COUNTY OF
DUNS: 087226056 CAGE Code: 0PS07
Status: Active
Expiration Date: 07/14/2020
Purpose of Registration: All Awards

44 N SAN JOAQUIN ST STE 640
STOCKTON, CA, 95202-2709,
UNITED STATES

- ▶ [Entity Overview](#)
- ▶ [Entity Registration](#)
 - ▶ [Core Data](#)
 - ▶ [Assertions](#)
 - ▶ [Reps & Certs](#)
 - ▶ [POCs](#)
- ▶ [Exclusions](#)
 - ▶ [Active Exclusions](#)
 - ▶ [Inactive Exclusions](#)
 - ▶ [Excluded Family Members](#)

[RETURN TO SEARCH](#)

Entity Overview

Entity Registration Summary

Name: SAN JOAQUIN, COUNTY OF
Doing Business As: COUNTY ADMINISTRATOR
Business Type: US Local Government
Last Updated By: Jerome Wilverding
Registration Status: Active
Activation Date: 07/15/2019
Expiration Date: 07/14/2020

Exclusion Summary

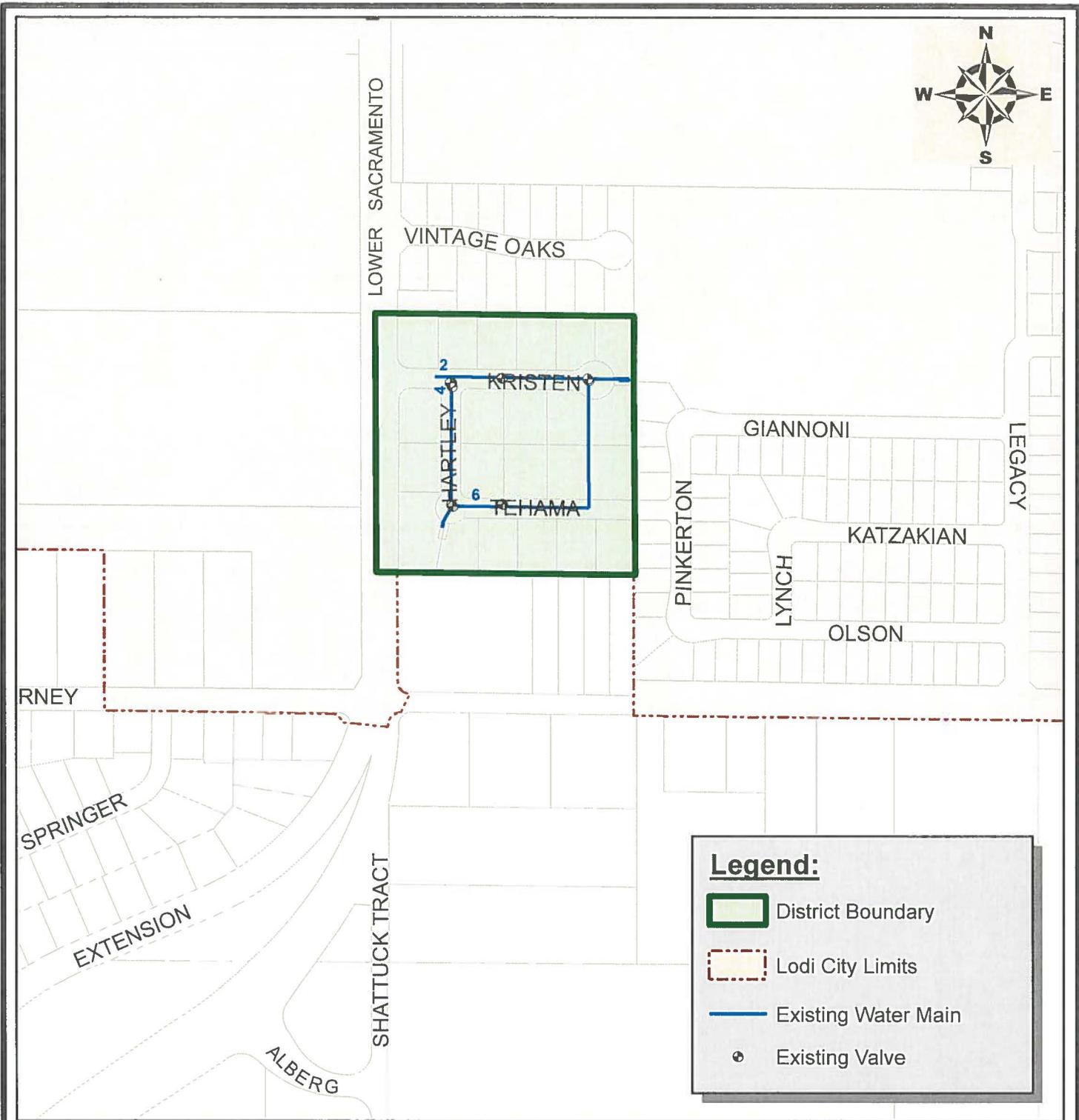
Active Exclusion Records? No



IBM-P-20200124-1615
WVWV3

- [Search Records](#)
- [Data Access](#)
- [Check Status](#)
- [About](#)
- [Help](#)
- [Disclaimers](#)
- [Accessibility](#)
- [Privacy Policy](#)
- [FAPHS.gov](#)
- [GSA.gov/IAE](#)
- [GSA.gov](#)
- [USA.gov](#)

Appendix E
Project Map



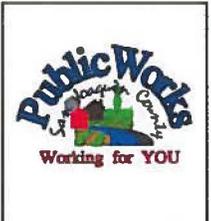
-- VICINITY MAP --

SUNNYSIDE ESTATES MAINTENANCE DISTRICT PROPOSED WATER METERS



Scale: None

SAN JOAQUIN COUNTY
 Department of Public Works, 1810 E. Hazelton Ave., Stockton, CA 95205
 The County of San Joaquin does not warrant the accuracy, completeness, or suitability for any particular purpose.
 The information on this map is not intended to replace engineering, financial or primary records research.



Appendix F
Indirect Cost Rate

DEPARTMENT OF TRANSPORTATION
INDEPENDENT OFFICE OF AUDITS AND INVESTIGATIONS
P.O. BOX 942874, MS-2
SACRAMENTO, CA 94274-0001
PHONE (916) 323-7111
FAX (916) 323-7123
TTY 711
www.dot.ca.gov



*Making Conservation
a California Way of Life.*

February 15, 2019

Ms. Kristi Rhea
Manager of Strategic Initiatives
San Joaquin County
Department of Public Works
1810 E. Hazelton Avenue
Stockton, CA 95201

Dear Ms. Rhea:

The Independent Office of Audits and Investigations (IOAI), California Department of Transportation (Caltrans), received the Indirect Cost Allocation Plan for fiscal year (FY) 2018/19, on January 22, 2019, for the San Joaquin County Department of Public Works Engineering (County) which certifies the County has complied with Title 2 Code of Federal Regulations Part 200. IOAI found that the ICAP submission is in compliance with the Caltrans streamlined submission requirements.

The County is authorized to use the ICAP rate of 58.14 percent of total direct salaries and fringe benefits for FY 2018/19 for DPW's billing and reimbursement purposes.

The accepted rate is based on the understanding that a carry forward provision applies and no adjustment will be made to previously approved rates.

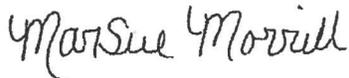
IOAI did not perform an audit of the ICAP submission under generally accepted government auditing standards. The ICAP may be subject to audit at a later time.

Acceptance of the indirect rate is based on the understanding that the County agrees to provide subsequent reimbursement if the rate proposal is later found to have included costs that are unallowable as specified by law, regulation, or the terms and conditions of state or federal awards.

Ms. Kristi Rhea
February 15, 2019
Page 2

Please retain a copy of this letter for your files. If you have any questions or concerns, please contact Rimple Bhatti, Auditor, at Rimplejeet.bhatti@dot.ca.gov, or Luisa Ruvalcaba, Audit Manager, at Luisa.Ruvalcaba@dot.ca.gov.

Sincerely,



MARSUE MORRILL, CPA
Chief
Planning and Modal Office

Enclosure

c: Dionna Pancoast, Accounting Manager, Department of Public Works, San Joaquin County
Rodney Whitfield, Director, Financial Services, Federal Highway Administration
Veneshia Smith, Financial Manager, Financial Services, Federal Highway Administration
Parminder Singh, DLAE, Local Assistance, District 10, Caltrans
Ken Baxter, Deputy District Director, Planning and Local Assistance and Environment, District 10, Caltrans
Angel Pyle, Assistant Division Chief, Division of Rail and Mass Transportation, Caltrans
Ezequiel Castro, Branch Chief, State Transit Programs and Intercity Rail, Division of Rail & Mass Transportation, Caltrans
James Ogbonna, Branch Chief, Rural Transit and Intercity Bus Branch, Division of Rail and Mass Transportation, Caltrans
Susie Beesley, Manager, Contract and Grant Compliance, Division of Rail and Mass Transportation, Caltrans
Erin Thompson, Office Chief, Office of Regional Planning, Division of Transportation Planning, Caltrans
Jacqueline Kahrs, Regional Coordination Branch Chief, Office of Regional Planning, Division of Transportation Planning, Caltrans
Paula Bersola, Audits Liaison, Office of Guidance and Oversight, Division of Local Assistance, Caltrans
Lisa Gore, Associate Accounting Analyst, Division of Accounting, Caltrans
Luisa Ruvalcaba, Audit Manager, Planning and Modal Office, Independent Office of Audits and Investigations, Caltrans
P1590-0996

Attachment D

ICAP/ICRP SUBMISSION CERTIFICATION

San Joaquin County Department of Public Works Indirect Cost Rate FY 2019

The indirect cost rate plan contained herein is for use on grants, contracts and other agreements with the Federal Government and the California Department of Transportation (Department), subject to the provisions in Section II. This rate was prepared by the San Joaquin County Department of Public Works and accepted by the Department.

SECTION I: Rates

<u>Rate Type*</u>	<u>Effective Period</u>	<u>Rate*</u>	<u>Applicable to</u>
Fixed w/ carryforward	7/1/18 to 6/30/19	58.14%	Public Works Engineering

* Base: Total Direct Salaries and Fringe Benefits

SECTION II: General Provisions

A. Limitations:

The rate(s) in this Agreement is subject to any statutory or administrative limitations and applies to a given grant, contract, or other agreement only to the extent that funds are available. Acceptance of the rate(s) is subject to the following conditions: (1) Only costs incurred by the LGA were included in its indirect cost pool as finally accepted; such costs are legal obligations of the LGA and are allowable under the governing cost principles; (2) The same costs that have been treated as indirect costs are not claimed as direct costs; (3) Similar types of costs have been accorded consistent accounting treatment; (4) The information provided by the LGA which was used to establish the rate(s) is not later found to be materially incomplete or inaccurate by the Federal Government or the Department. In such situations the rate(s) would be subject to renegotiation at the discretion of the Federal Government or the Department; (5) Prior actual costs used in the calculation of the approved rate(s) are contained in the LGA's Single Audit which was prepared in accordance with 2 CFR 200. If a Single Audit is not required to be performed, then audited financial statements should be used to support the prior actual costs; and, (6) the fixed rate is based on an estimate of the costs to be incurred during the period.

B. Accounting Changes:

This Agreement is based on the accounting system purported by the LGA to be in effect during the Agreement period. Changes to the method of accounting for costs which affect the amount of reimbursement resulting from the use of this Agreement require prior approval of the authorized representative of the cognizant agency. Such changes include, but are not limited to, changes in the charging of a particular type of cost from indirect to direct. Failure to obtain approval may result in cost disallowances.

Attachment D

C. Fixed Rate with Carry Forward:

The fixed rate used in this Agreement is based on an estimate of the costs for the period covered by the rate.

For fixed rates, when the actual costs for the period is determined by the LGA's audited financial statements – any differences between the application of the fixed rate(s) and actual costs will result in an over or under recovery of costs. The over or under recovery will be carried forward, as an adjustment to the calculation of the indirect cost rate(s), to the second fiscal year subsequent to the fiscal year covered by this plan. *(Note: If a predetermined rate(s) or final rate(s) is used, then the carry forward provision does not apply).*

D. Audit Adjustments:

Immaterial adjustments resulting from the audit of information contained in this plan shall be compensated for in the subsequent indirect cost plans approved after the date of the audit adjustment. Material audit adjustments will require reimbursement from the LGA. For rates covering a future fiscal year, unallowable costs will be removed from the indirect cost pool(s) and the rate(s) appropriately adjusted.

E. Record Retention:

The proposal and all related documentation must be retained for audit in accordance with the record retention requirements of the State or Federal agreements for which the indirect rate(s) will be billed or for three years after the fiscal year for which the rate(s) is calculated, whichever is longer.

F. Use by Other Federal Agencies:

Authority to accept this agreement by the Department has been delegated by the Federal Highway Administration, California Division. The purpose of this acceptance is to permit the LGA to bill indirect costs to Title 23 funded projects administered by the Federal Department of Transportation (DOT).

The acceptance will also be used by the Department in state-only funded projects.

G. Other:

If any Federal contract, grant, or other agreement is reimbursing indirect costs by a means other than the accepted rate(s) in this Agreement, the LGA should (1) credit such costs to the affected programs, and (2) apply the accepted rate(s) to the appropriate base to identify the proper amount of indirect costs allocable to these programs.

H. Rate Calculation for Fixed Rate with Carryforward:

FY 2019 Budgeted/Estimated Indirect Costs	\$4,001,834
Carry Forward from FY 2017	<u>\$ 426,852</u>
Budgeted FY 2019 Indirect Costs	\$4,428,686
FY 2019 Total Budgeted Direct Salaries Wages & Fringe Benefits (or applicable base)	\$7,617,627
FY 2019 Indirect Cost Rate	58.14%

Attachment D

CERTIFICATION OF INDIRECT COSTS

This is to certify that I, Kristi Rhea, have reviewed the indirect cost rate proposal submitted herewith and to the best of my knowledge and belief:

- (1) All costs included in the proposal to establish billing of an indirect cost rate(s) for fiscal year 2019 (July 1, 2018 to June 30, 2019) are allowable in accordance with the requirements of the Federal and State award(s) to which they apply and 2 Code of Federal Regulations (CFR), Part 200, "Cost Principles", Subpart E, and Appendices V & VII for State, Local, and Indian Tribal Governments. Unallowable costs have been adjusted for in allocating costs as indicated in the cost allocation plan.
- (2) All costs included in this proposal are properly allocable to Federal and State awards on the basis of a beneficial or causal relationship between the expenses incurred and the agreements to which they are allocated in accordance with applicable requirements. Further, the same costs that have been treated as indirect costs have not been claimed as direct costs. Similar types of costs have been accounted for consistently and the Federal Government and the Department will be notified of any accounting changes that would affect the fixed, final, or predetermined rate(s).
- (3) I understand that during the predetermined (or extension) period, there will be no changes to the ICAP/ICRP calculation methodology used, no changes to our financial management system (i.e. change in processes, or in accounting software), and no substantial changes to our organizational structure and program(s).
- (4) I understand that if a rate extension is granted, I may not request a rate review until the extension period ends and that at the end of the extension period, I must re-apply to develop and negotiate a rate(s).
- (5) I understand that the ICAP/ICRP package along with all supporting documentation from which the proposed rates are developed must be retained for audit in accordance with the record retention requirements of the State or Federal agreements for which the indirect rate(s) will be billed or for three years after the fiscal year for which the rate(s) is calculated, whichever is longer.
- (6) Additionally, I understand that in accordance with 2 CFR, Part 200, Appendix VII, refunds shall be made if proposals are later found to have included costs that are unallowable as specified by law or regulation, as identified in Subsection 200.420 to this part, or by the terms and conditions of Federal and State award, or are unallowable because they are clearly not allocable to Federal or State awards. These adjustments or refunds will be made regardless of the type of rate(s) negotiated (predetermined, final, fixed or provisional). For rates covering a future fiscal year (i.e. extended rates), the unallowable costs will be removed from the indirect cost pool(s) and the rate(s) appropriately adjusted for all fiscal years covered by the extension.

Attachment D

I acknowledge as a representative of San Joaquin County Department of Public Works that the proper use and application of the indirect rate contained in this indirect cost rate proposal is the responsibility of the San Joaquin County Department of Public Works and such use may be subject to audit by the Department or Federal Highway Administration. Failure to cooperate with an audit can result in the withdrawal of Department acceptance and require immediate reimbursement of previously reimbursed indirect costs.

I declare that the foregoing is true and correct.

Government Unit: San Joaquin County Department of Public Works

Signature: *Kristi Rhea*

Signature: *Dionna Pancoast*

Reviewed, Approved and Submitted by:

Prepared by:

Name of Official: Kristi Rhea

Name of Official: Dionna Pancoast

Title: Manager of Strategic Initiatives

Title: Accounting Manager

Date of Execution: 1/18/19

Telephone No.: 209-468-3007

INDIRECT COST RATE(S) SUBMISSION ACCEPTANCE

The Department has received this ICAP/ICRP and accepts the plan for billing and reimbursement purposes.

Accepted by:

MARSUE MORRILL, CPA
Chief, External Audits – Local Governments
California Department of Transportation, Audits and Investigations
(916) 323-7105

Marsue Morrill

Signature

Date: 2/15/2019