Appendix A

Scoping Materials
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Notice of Preparation and Distribution List
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NOTICE OF PREPARATION

Notice of Preparation of a Draft Environmental Impact Report for the Water Master Plan

Date: August 26, 2016

To: State Clearinghouse, and Responsible and Trustee Agencies

The City of Modesto (City) will serve as the Lead Agency under the California Environmental Quality Act in preparing an Environmental Impact Report (EIR) for the Water Master Plan (Program or Proposed Program). The Proposed Program is located in the City of Modesto and other communities in Stanislaus County. The City is seeking the views of your agency regarding the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the Proposed Program. Your agency may need to use the subject EIR when considering any necessary permit or other approval for the Program. Interested parties and individuals are also invited to comment on alternatives to, concerns with, and environmental issues or potential effects of the project. Please share this notice with anyone you feel may be interested in the Program.

The Proposed Program description, location, and the potential environmental effects are contained in the attached materials and available at http://www.modestogov.com/847/Water-Plans-Reports.

Public Scoping Meeting: A public scoping meeting will be held to receive agency and public comments on the scope of the EIR for the Proposed Program.

Date and Time: September 6, 2016 at 5:00 pm

Location: City Hall
1010 10th Street, Room 2001
Modesto, CA 95354

Due to the time limits mandated by State law, your written response must be sent at the earliest possible date but not later than 30 days after receipt of this notice.

Please send your response to: Jack Bond, Senior Civil Engineer
City of Modesto Utilities Department
P.O. Box 642 (1010 10th Street)
Modesto, CA 95353
jbond@modestogov.com

Jack Bond
Senior Civil Engineer
Aviso de Preparación de un reporte preliminar de impacto ambiental para el Plano Maestro de Agua

Fecha: 26 de agosto de 2016

Para: State Clearinghouse, y Agencias Responsables y Fideicomisarios

La Ciudad de Modesto (Ciudad) va servir como la agencia principal bajo la Ley de Calidad Ambiental de California (California Environmental Quality Act, CEQA) en preparación de un informe de impacto ambiental (Environmental Impact Report, EIR) para el Plano Maestro de Agua del 2016 (Programa Propuesto). El Programa Propuesto está localizado en la Ciudad y en otras comunidades del Condado de Stanislaus. La Cuidad está buscando el punto de vista de su agencia en relación con la cobertura y el contenido de la información ambiental cual es relacionado a las responsabilices legales de su agencia en conexión con el Programa Propuesto. Su agencia pueda necesitar el uso del sujeto informe de impacto ambiental cuando considere cualquier permiso necesario o alguna aprobación para el Programa Propuesto. Partidos o individuos interesados también son invitados a comentar sobre alternativas para, preocupaciones sobre, y asuntos ambientales o efectos potenciales del Programa Propuesto. Por favor compartá este aviso con cualquier persona que usted piense que tuviera interés sobre el Programa Propuesto. La descripción, localidad, y posibles efectos ambientales del Programa Propuesto, están contenidos en los materiales incluidos.

Junta Pública: Una Junta Publica sobre la cobertura se va a llevar acabo para recibir comentarios de las agencias y el público sobre la cobertura del informe de impacto ambiental por el Programa Propuesto.

Fecha y Tiempo: El 6 de septiembre del 2016 a las 5:00 pm

Lugar: Municipio (City Hall)
1010 10th Street, Room 2001
Modesto, CA 95354

Debido a los límites de tiempo establecidos por las leyes del estado, debe mandar su repuesta en escrito lo más pronto posible pero no más tarde de 30 días después de recibir este aviso.

Por favor mande su respuesta a: Jack Bond, Senior Civil Engineer
City of Modesto Utilities Department
P.O. Box 642 (1010 10th Street)
Modesto, CA 95353
jbond@modestogov.com

Jack Bond
Fecha 8/25/16

Water Master Plan 1 August 2016
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<td>Turlock Irrigation District</td>
<td>Casey Hashimoto</td>
<td>General Manager</td>
<td>P.O. Box 349</td>
<td>Turlock</td>
<td>CA</td>
<td>95381-0049</td>
<td>209-848-9222</td>
<td><a href="mailto:patrick.ryan@mid.org">patrick.ryan@mid.org</a></td>
<td>Modesto Irrigation District</td>
<td>Patrick Ryan</td>
<td>Civil Engineering Manager</td>
<td>12311 Eleventh St</td>
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<td>Michael Brinton</td>
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<td>1320 Hatchett</td>
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<td><a href="mailto:michael.bryton@cctc.ceres.ca.us">michael.bryton@cctc.ceres.ca.us</a></td>
<td>City of Ceres</td>
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<td>210 S. Broadway, Suite 210</td>
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<td>Stanislaus LCPC</td>
<td>Sarah Lipke-Petley</td>
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<td>1010 Fenth Street, 3rd Floor</td>
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<td>Stanislaus County Public Works District</td>
<td>Matt Machado</td>
<td>Stanislaus County Public Works Director</td>
<td>2718 Morgan Road</td>
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<td>Stanislaus County</td>
<td>Miguel Galvez</td>
<td>Senior Planner</td>
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<td>Stanislaus County Manager, Water Resources Program</td>
<td>William Ward</td>
<td>Manager, Water Resources Program</td>
<td>1800 Corncruse Way, Suite C</td>
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<td>Stanislaus County Clerk's Office</td>
<td>Lee Lundigan</td>
<td>County Clerk Recorder</td>
<td>1641 5th Street</td>
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<td>John Carroll</td>
<td>Chief of Police</td>
<td>601 10th Street</td>
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<td>Modesto City/County Airport</td>
<td>Mark Germanowick</td>
<td>Airport Manager</td>
<td>617 Airport Way</td>
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<td>The Nature Conservancy</td>
<td>Laura Jensen</td>
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<td>555 Capitol Mall, Suite 1290</td>
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<td>Stanislaus County Farm Bureau</td>
<td>Wayne Ziser</td>
<td>Executive Manager</td>
<td>1201 11 Street, PO Box 3070</td>
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<td>Meghan Hartel</td>
<td>Working Lands Director</td>
<td>400 Capitol Mall, Suite 1535</td>
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<td>Friends of the Tuolumne River</td>
<td>Alison Boucher</td>
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<td>2500 NE 3rd Street, Ste 110, PMB 314</td>
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<td>U.S. Fish and Wildlife Service</td>
<td>Lora Affonso</td>
<td>Division Chief, Sacramento Valley Branch</td>
<td>1800 Cottage Way, Room W-2605</td>
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<td>NOAA National Marine Fisheries</td>
<td>Maria Hia</td>
<td>Assistant Regional Administrator, Central Valley Office</td>
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<td>Georgia Stewart</td>
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<td>1590 East Gaffey Avenue</td>
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<td>U.S. Army Corps of Engineers, Sacramento District</td>
<td>Kate Dayley</td>
<td>Chief, California South Branch</td>
<td>1325 F Street, Room 3300</td>
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<td>Empire Union School District</td>
<td>Matthew Shephey</td>
<td>Superintendent</td>
<td>3920 Boomeraker Ave</td>
<td>Modesto</td>
<td>CA</td>
<td>95350</td>
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<td><a href="mailto:mshpehey@paradisessd.org">mshpehey@paradisessd.org</a></td>
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<tr>
<td>Paradise Elementary School</td>
<td>Heath Thompson</td>
<td>Superintendent/Principal</td>
<td>3811 California Ave</td>
<td>Modesto</td>
<td>CA</td>
<td>95350</td>
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<td><a href="mailto:mthompson@paradisessd.org">mthompson@paradisessd.org</a></td>
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<tr>
<td>Woodland Avenue Fire Protection District</td>
<td>Mike Pascaletto</td>
<td>District Chief</td>
<td>3300 Woodland Ave</td>
<td>Modesto</td>
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<td>95350</td>
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<td><a href="mailto:mtpascaletto@woodlandairport.org">mtpascaletto@woodlandairport.org</a></td>
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State Clearinghouse
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Notice of Preparation

August 26, 2016

To: Reviewing Agencies
Re: Water Master Plan
SCH# 2016082069

Attached for your review and comment is the Notice of Preparation (NOP) for the Water Master Plan draft Environmental Impact Report (EIR).

Responsible agencies must transmit their comments on the scope and content of the NOP, focusing on specific information related to their own statutory responsibility, within 30 days of receipt of the NOP from the Lead Agency. This is a courtesy notice provided by the State Clearinghouse with a reminder for you to comment in a timely manner. We encourage other agencies to also respond to this notice and express their concerns early in the environmental review process.

Please direct your comments to:

Jack Bond
City of Modesto
P.O. Box 642
1010 Tenth Street
Modesto, CA 95353

with a copy to the State Clearinghouse in the Office of Planning and Research. Please refer to the SCH number noted above in all correspondence concerning this project.

If you have any questions about the environmental document review process, please call the State Clearinghouse at (916) 445-0615.

Sincerely,

Scott Morgan
Director, State Clearinghouse

Attachments
cc: Lead Agency
Notice of Completion & Environmental Document Transmittal

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613
For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH 2016081069

Appendix C

Project Title: Water Master Plan

Lead Agency: City of Modesto
Mailing Address: P.O. Box 642
City: Modesto
Zip: 95353
Contact Person: Jack Bond
Phone: 209-575-5210
County: Stanislaus

Project Location: County Stanislaus
City/Nearest Community: Modesto

Cross Streets: Various
Latitude/Longitude (degrees, minutes and seconds): Various
Assessor’s Parcel No.: Various
Section: Twp.: Range: Base:
Within 2 Miles: Modesto City-County Airport
Airports: Various
Railways: Southern Pacific
Schools: Various

Waterways: Tuolumne River, Stanislaus River, Dry Creek

Document Type:
- CSQA: K NOP
- NEPA: K Final EIR
- NOI: K Final
- Draft EIR
- NEPA
- FONSI

Local Action Type:
- General Plan Update
- General Plan Amendment
- General Plan Element
- Community Plan

Development Type:
- Residential: Units
- Office: Sq.ft.
- Commercial: Sq.ft.
- Industrial: Sq.ft.
- Educational:
- Recreational:
- Water Facilities: Type water infrastructure MGD

Project Issues Discussed in Document:
- Aesthetic/Visual
- Agricultural Land
- Air Quality
- Archeological/Historical
- Biological Resources
- Coastal Zone
- Drainage/Absorption
- Economic Jobs
- Fiscal
- Flood Plain/Flooding
- Flood Control/Drainage
- Geologic/Seismic
- Minerals
- Noise
- Population/Housing Balance
- Public Services/Facilities
- Recreation/Parks
- Schools/Universities
- Septic Systems
- Sewer Capacity
- Soil Erosion/Compaction/Grading
- Solid Waste
- Toxic/Hazardous
- Traffic/Circulation
- Vegetation
- Water Quality
- Water Supply/Groundwater
- Wetland/Riparian
- Growth Inducement
- Land Use
- Cumulative Effects
- Other:

Present Land Use/Zoning/General Plan Designation:
Various

Project Description: (please use a separate page if necessary)
The Proposed Program would consist of a Capital Improvement Program (CIP) for system-wide implementation needed to ensure adequate water infrastructure and services are available to meet water demand requirements under both existing and future developed conditions. The CIPs proposed in the Master Plan include water storage tanks, groundwater wells, wellhead treatment or blending facilities, pump stations, extension of water pipelines, and repair or replacement of water pipelines. Other CIPs include installation of back-up power generators at various booster pump stations for tanks and wells. Additionally, the Master Plan includes construction of a new corporation yard and an aquifer storage recovery program. The CIPs would be implemented within the City's contiguous and outlying service areas.

Note: The State Clearinghouse will assign identification numbers for all new projects. If a SCH number already exists for a project (e.g. Notice of Preparation or previous draft document) please fill in.

Revised 2010
## Distribution List

### Agency
- Fisheries Agency
  - Gayou
- Dept. of Boating & Waterways
  - Denise Peterson
- California Coastal Commission
  - Elizabeth A. Fuchs
- Borrego River Board
  - Johansen
- Pt. of Conservation
  - Elizabeth Carpenter
- California Energy Commission
  - Knight
- Cal Fire
  - Foster
- Central Valley Flood Protection Board
  - Herota
- Ice of Historic Preservation
  - Parsons
- Parks & Recreational Stewardship
- California Department of Resources, Recycling & Recovery
  - O'Leary
- Bay Conservation & Development Comm.
  - Goldbeck
- Dept. of Water Resources
  - Resources Agency
  - Nadeen Gayou

### Fish and Game
- Dept. of Fish & Wildlife
  - Scott Flint
    - Environmental Services Division
- Fish & Wildlife Region 1
  - Curt Babcock

### Other Departments
- Food & Agriculture
  - Sandra Schubert
    - Dept. of Food and Agriculture
- Dept. of General Services
  - Public School Construction
- Dept. of General Services
  - Cathy Buck/George Carillo Environmental Services Section
- Dept. of Transportation
  - Council
  - Kevin Sansam
- Housing & Comm. Dev.
  - CEQA Coordinator
  - Housing Policy Division

### Independent Commissions, Boards
- Delta Protection Commission
  - Erik Vink

### Cal State Transportation Agency (CalSTA)
- Caltrans - Division of Aeronautics
  - Philip Crimmings
- Caltrans - Planning
  - Terri Pencovic
- California Highway Patrol
  - Suzann Ikeuchi
  - Office of Special Projects

### Cal EPA
- Air Resources Board
  - Cathi Slaminski
    - Transportation Projects
    - Environmental Analysis
- State Water Resources Control Board
  - Regional Programs Unit
    - Division of Financial Assistance
- State Water Resources Control Board
  - Cindy Forbes - Asst Deputy Division of Drinking Water
- State Water Resources Control Board
  - Student Intern, 401 Water Quality Certification Unit
    - Division of Water Quality
- State Water Resources Control Board
  - Phil Crader
    - Division of Water Rights
- Dept. of Toxic Substances Control
  - CEQA Tracking Center
- Department of Pesticide Regulation
  - CEQA Coordinator

### SCH# 2016082069
- Regional Water Quality Control Board (RWQCB)
  - RWQCB 1: Cathleen Hudson, North Coast Region (1)
  - RWQCB 2: Environmental Document Coordinator, San Francisco Bay Region (2)
  - RWQCB 3: Central Coast Region (3)
  - RWQCB 4: Teresa Rodgers, Los Angeles Region (4)
  - RWQCB 55: Central Valley Region (5)
  - RWQCB 5F: Central Valley Region (5)
  - RWQCB 5R: Central Valley Region (5)
  - RWQCB 6: Lahontan Region (6)
  - RWQCB 6V: Lahontan Region (6)
  - RWQCB 7: Colorado River Basin Region (7)
  - RWQCB 8: Santa Ana Region (8)
  - RWQCB 9: San Diego Region (9)

### Other
- Other

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Last Updated: 7/19/2016
NOTICE OF PREPARATION

Notice of Preparation of a Draft Environmental Impact Report for the Water Master Plan

Date: August 26, 2016

To: State Clearinghouse, and Responsible and Trustee Agencies

The City of Modesto (City) will serve as the Lead Agency under the California Environmental Quality Act in preparing an Environmental Impact Report (EIR) for the Water Master Plan (Program or Proposed Program). The Proposed Program is located in the City of Modesto and other communities in Stanislaus County. The City is seeking the views of your agency regarding the scope and content of the environmental information which is germane to your agency’s statutory responsibilities in connection with the Proposed Program. Your agency may need to use the subject EIR when considering any necessary permit or other approval for the Program. Interested parties and individuals are also invited to comment on alternatives to, concerns with, and environmental issues or potential effects of the project. Please share this notice with anyone you feel may be interested in the Program.

The Proposed Program description, location, and the potential environmental effects are contained in the attached materials and available at http://www.modestogov.com/847/Water-Plans-Reports.

Public Scoping Meeting: A public scoping meeting will be held to receive agency and public comments on the scope of the EIR for the Proposed Program.

Date and Time: September 6, 2016 at 5:00 pm

Location: City Hall
1010 10th Street, Room 2001
Modesto, CA 95354

Due to the time limits mandated by State law, your written response must be sent at the earliest possible date but not later than 30 days after receipt of this notice.

Please send your response to: Jack Bond, Senior Civil Engineer
City of Modesto Utilities Department
P.O. Box 642 (1010 10th Street)
Modesto, CA 95353
jbond@modestogov.com

[Signature]
Jack Bond
Senior Civil Engineer

[Signature] Date

2016 Aug 25
Aviso de Preparación de un reporte preliminar de impacto ambiental para el Plano Maestro de Agua

Fecha: 26 de agosto de 2016

Para: State Clearinghouse, y Agencias Responsables y Fideicomisarios

La Ciudad de Modesto (Ciudad) va servir como la agencia principal bajo la Ley de Calidad Ambiental de California (California Environmental Quality Act, CEQA) en preparación de un informe de impacto ambiental (Environmental Impact Report, EIR) para el Plano Maestro de Agua del 2016 (Programa Propuesto). El Programa Propuesto está localizado en la Ciudad y en otras comunidades del Condado de Stanislaus. La Cuidad está buscando el punto de vista de su agencia en relación con la cobertura y el contenido de la información ambiental cual es relacionado a las responsabilidades legales de su agencia en conexión con el Programa Propuesto. Su agencia pueda necesitar el uso del sujeto informe de impacto ambiental cuando considere cualquier permiso necesario o alguna aprobación para el Programa Propuesto. Partidos o individuos interesados también son invitados a comentar sobre alternativas para, preocupaciones sobre, y asuntos ambientales o efectos potenciales del Programa Propuesto. Por favor comparta este aviso con cualquier persona que usted piense que tuviera interés sobre el Programa Propuesto. La descripción, localidad, y posibles efectos ambientales del Programa Propuesto, están contenidos en los materiales incluidos.

Junta Pública: Una Junta Public sobre la cobertura se va a llevar acabo para recibir comentarios de las agencias y el público sobre la cobertura del informe de impacto ambiental por el Programa Propuesto.

Fecha y Tiempo: El 6 de septiembre del 2016 a las 5:00 pm

Lugar: Municipio (City Hall)  
1010 10th Street, Room 2001  
Modesto, CA 95354

Debido a los límites de tiempo establecidos por las leyes del estado, debe mandar su repuesta en escrito lo más pronto posible pero no más tarde de 30 días después de recibir este aviso.

Por favor mande su respuesta a: Jack Bond, Senior Civil Engineer  
City of Modesto Utilities Department  
P.O. Box 642 (1010 10th Street)  
Modesto, CA 95353  
jbond@modestogov.com

Jack Bond  

Fecha 8/25/16

Water Master Plan 1  
August 2016
A. Project Description

1. Introduction

As the lead agency responsible for compliance with the California Environmental Quality Act (CEQA), the City of Modesto (City) has determined that the newly developed 2016 Water Master Plan (Program or Proposed Program) has potential to result in a significant impact on the physical environment, and has decided to prepare an Environmental Impact Report (EIR) to provide ample opportunity for public disclosure and participation in the planning and decision making process. The Proposed Program would consist of several Capital Improvement Projects (CIPs) collectively intended for system-wide implementation needed to deliver safe and reliable water, which would effectively meet water demand requirements under both existing and future developed conditions. Further details of the Proposed Program are provided below.

The purpose of the draft EIR process is to identify and evaluate possible environmental impacts of the Program, and consider mitigation measures and feasible alternatives to avoid, reduce, or compensate for any significant impacts on environmental resources, while still achieving the primary Program objectives.

This document, which serves as the Notice of Preparation (NOP) required by CEQA and the State CEQA Guidelines (California Code of Regulations [CCR] Title 14, Section 15000 et seq.), contains a brief description of the Program, including its goals and objectives, and possible environmental impacts. It also provides an overview of the opportunities for participation in review of the EIR, along with contact information.

2. Background

The City periodically reevaluates its water service system through development of Water Master Plans (also referred to as Water System Engineer’s Reports [WSERs]). The Proposed Program updates and replaces the City’s 2010 WSER and includes a variety of CIPs to improve the City’s water service system.

The City has been providing potable water service to its urban area since 1895 through the purchase and acquisition of several private water companies and, as a result, has become the primary domestic water purveyor in Stanislaus County. In the early 1990s, the City, Modesto Irrigation District (MID), and the Del Este Water Company formed a partnership to use a portion of MID’s surface water rights for municipal uses. The resulting Modesto Regional Water Treatment Plant (MRWTP) was completed in 1995. The MRWTP, in addition to providing water storage and delivery, initially provided 30 million gallons per day (mgd) of treated surface water to the City. In combination with groundwater resources, the MRWTP meets the City’s water supply needs for those municipal customers within the City’s Sphere of Influence (SOI) north of the Tuolumne River (southern boundary of MID’s service area), including the communities of Salida and Empire. For a number of years, the City and MID have been working together on the MRWTP Phase Two Expansion, which recently became operational and has capacity to treat an additional annual average of 12 mgd, for an annual average total of up to 42 mgd. The initial
phase of the MRWTP significantly reduced the City’s reliance on groundwater pumping and eliminated the emerging groundwater overdraft condition at the time.

Water treatment, pumping, storage, and conveyance infrastructure is operated and maintained by the City’s Utilities Services Department, Water Operations Division. Potable water resources delivered by the City’s system to customers originate from two sources: treated surface water purchased from MID and groundwater pumped from the many wells scattered throughout the contiguous service area and the outlying service areas. The MRWTP is owned and operated by MID and is located approximately 10 miles east of the city limits near the Modesto Reservoir. Outlying areas do not receive treated water from the MRWTP and rely solely on groundwater. The key components of the City’s water system are storage tanks, groundwater wells, and a transmission/distribution pipeline network.

In addition to making improvements related to the City’s water system components, the City is proposing to implement an aquifer storage and recovery program.

3. Program Purpose and Objectives

The goal of the 2016 Water Master Plan is to accommodate the water supply needs of the population and land uses described in the City’s Urban Area General Plan Amendment (General Plan Amendment) and community plans of service areas outlying the City’s urban area or SOI. The Proposed Program is intended to meet the following objectives:

- Implement the City’s economic goals and Urban Area General Plan by planning for, and providing, sewer infrastructure in a timely and cost-effective manner to serve new and existing development.

- Continue the City’s policy of providing affordable and attractive water rates.

- Repair and replace aging water infrastructure.

- Ensure adequate water infrastructure and services are available to serve new growth within the City’s SOI.

- Provide an adequate funding mechanism to pay for necessary improvements.

- Require new development to pay for infrastructure necessary to serve it.

- Plan for state-of-the-art facilities that reliably and economically meet the changing regulatory requirements.

4. Program Location

The Proposed Program is located in the City of Modesto and other communities in Stanislaus County (see Figure 1). The project area encompasses two distinct customer location categories: (1) the contiguous service area and (2) outlying service areas. The City’s contiguous service area is limited to the current SOI, Salida, North Ceres, and some unincorporated...
Stanislaus County "islands" within and adjacent to the SOI (Empire is within the SOI). The outlying service areas include Del Rio, Ceres (Walnut Manor), Grayson, and a portion of the City of Turlock. These areas are shown in Figure 2. Collectively, the contiguous service area and outlying service areas constitute the "study area" for the EIR.

5. **Existing Facilities and Operations**

The City supplies water to its SOI and outlying areas identified above via surface water supplies (treated water from the MRWTP) and groundwater supplies. Existing City water supply and treatment infrastructure includes storage tanks, groundwater wells, and transmission/distribution pipelines.

6. **Program Description**

The Proposed Program is the collection of CIPs proposed in the 2016 Water Master Plan. These CIPs include improvements to existing water storage tanks, and construction and operation of new water storage tanks, groundwater wells, wellhead treatment or blending facilities, pump stations, extension of water pipelines, and repair or replacement of water pipelines. Other CIPs include installation of generators for back-up power at various booster pump stations for tanks and wells, upgrades to the Supervisory Control and Data Acquisition (SCADA) system to improve the City's management of the water system, and installation of fencing and security measures to be implemented at well and tank sites. Additionally, the 2016 Water Master Plan includes construction of a new corporation yard and an aquifer storage recovery program.

The CIPs would be implemented within the City's contiguous and outlying service areas. The exact locations of some of the proposed new facilities have yet to be finalized; where tentative sites have been identified, these locations will be evaluated in the draft EIR.

7. **Topics to Be Analyzed in the EIR**

The City has prepared this NOP pursuant to CEQA Guidelines Section 15082. Based on the Proposed Program's potential for significant impacts on the environment, the City has decided to prepare an EIR. The EIR will further assess the Proposed Program's effects on the environment, identify significant impacts, and indicate feasible mitigation measures to reduce or eliminate potentially significant environmental impacts. An analysis of alternatives to the Proposed Program will also be included in the EIR. Topics to be analyzed in the EIR include, but are not necessarily limited to, the following:

- Aesthetics
- Agricultural and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Geomorphology
- Land Use and Planning
- Noise and Vibration
- Recreation
8. Environmental Process and Public Scoping Meeting

This NOP initiates the CEQA process through which the City will refine the range of issues and project alternatives to be addressed in the draft EIR. Comment is invited on the proposal to prepare the EIR and on the scope of issues to be included in the EIR.

Please submit any comments within 30 days of receipt of this notice to the City (see Contact Information below). In conjunction with the 30-day review period for the NOP, the City will hold a scoping meeting to provide an additional opportunity to learn about the project, ask questions, and provide comments about the scope and content of the information to be addressed in the draft EIR. The scoping meeting will be held at 5:00 pm on September 6, 2016 at the following location:

City Hall
1010 Tenth Street, Room 2001
Modesto, CA 95354

After the 30-day review period for the NOP is complete and all comments are received, a draft EIR will be prepared in accordance with CEQA, as amended (Public Resources Code [PRC] Section 21000 et seq.), and the State CEQA Guidelines (PRC Section 15000 et seq.).

Once the draft EIR is completed, it will be made available for a 45-day public review and comment period. Copies of the draft EIR will be sent directly to those agencies commenting on the NOP, and will also be made available to the public at a number of locations, including the City's offices and public libraries in the area. Information about availability of the draft EIR will also be posted on the following website: http://www.modestogov.com/847/Water-Plans-Reports.

9. Contact Information

For further information, contact:

Jack Bond, Senior Civil Engineer
City of Modesto Utilities Services Department
1010 Tenth Street, Suite 4500
Modesto, CA 95354
P.O. Box 642, Modesto, CA 95353
jbond@modestogov.com

Additional information relevant to the Program and the draft EIR can also be found online at the following website: http://www.modestogov.com/847/Water-Plans-Reports.
Join us for a
CEQA public scoping meeting
on the
Water Master Plan

The City of Modesto (City) is preparing an environmental impact report (EIR) for the Water Master Plan (Proposed Program) pursuant to the California Environmental Quality Act (CEQA). The Proposed Program is located in the City of Modesto and other communities in Stanislaus County and would consist of a Capital Improvement Program (CIP) for system-wide implementation needed to deliver safe and reliable water, which will effectively meet water demand requirements under both existing and future developed conditions. The City requests input from interested individuals, public agencies, and other parties regarding the scope and content of the EIR during the public scoping period. The scoping period begins on August 26, 2016 and ends on September 26, 2016. During this period, the City will hold a public meeting on the following date and location.

____________________________
September 6, 2016 at 5:00 P.M.
City Hall
1010 10th Street, Room 2001
Modesto, CA 95354

____________________________
To submit comments, contact the following:

Jack Bond
City of Modesto Utilities Department
P.O. Box 642
Modesto, CA 95353
jbond@modestogov.com

If special assistance is required to participate in the public scoping meeting, please contact Michael Stevenson (Michael@horizonh2o.com, 510-986-1852). Auxiliary aides and services are available to individuals with disabilities upon request.
Public Meeting Materials
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Introductions

City of Modesto

- Jack Bond - Project Manager

Horizon Water and Environment

- Michael Stevenson – Principal-in-Charge
- Debra Lilly – CEQA Project Coordinator
Meeting Agenda

- Meeting purpose and protocol
- Project overview
- Overview of the California Environmental Quality Act
- Receipt of public comment
CEQA Scoping: To allow the public and agencies to provide input on the scope and content of the project’s environmental impact analysis.

Scoping comments inform the scope and nature of the CEQA environmental analysis.
Meeting Protocol

- Please silence cell phones.
- One person speaks at a time; please do not interrupt a speaker.
- Make clear and succinct comments in order for us to effectively capture the comment in notes.
- Be respectful of each other and differing points of view.
Program Location
Program Objectives

- Implement the City’s economic goals and Urban Area General Plan by planning for, and providing, water infrastructure in a timely and cost-effective manner to serve new and existing development.

- Continue the City’s policy of providing affordable and attractive water rates.

- Repair and replace aging water infrastructure;

- Ensure adequate water infrastructure and services are available to serve new growth within the City’s Sphere of Influence;

- Provide an adequate funding mechanism to pay for necessary improvements; and

- Require new development to pay for infrastructure necessary to serve it.

- Plan for state-of-the-art facilities that reliably and economically meet the changing regulatory requirements.
<table>
<thead>
<tr>
<th>Program Elements</th>
<th>Improvements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Tanks and Pump Stations</td>
<td>Del Rio/South Modesto tanks, and other new tanks</td>
</tr>
<tr>
<td></td>
<td>Install new back-up generators</td>
</tr>
<tr>
<td></td>
<td>Replace deficient water pumps</td>
</tr>
<tr>
<td></td>
<td>Improve existing tanks (maintenance)</td>
</tr>
<tr>
<td>Groundwater Wells</td>
<td>Install wellhead treatment</td>
</tr>
<tr>
<td></td>
<td>Construct new wells</td>
</tr>
<tr>
<td>Pipelines</td>
<td>Replace/upgrade deficient water mains, extend water mains to new areas, new transmission pipes</td>
</tr>
<tr>
<td>Misc. Water System Improvements and Programs</td>
<td>Install automated water meters and upgrade existing meters</td>
</tr>
<tr>
<td></td>
<td>Water System Evaluation and water quality studies, UWMP updates (every 5 years), GW Management Program, water system security, SCADA upgrades</td>
</tr>
<tr>
<td></td>
<td>New corporation yard (store materials for water projects)</td>
</tr>
</tbody>
</table>
Basic purposes of CEQA (State CEQA Guidelines, Section 15002):

- Inform governmental decision makers and public about potential, significant environmental effects of proposed activities.
- Identify ways that environmental damage can be avoided or significantly reduced.
- Prevent significant, avoidable damage to environment by requiring changes in projects through the use of alternatives or mitigation measures when governmental agency finds changes to be feasible.
- Disclose to public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.
EIR Process

- Notice of Preparation: August 2016
- Draft EIR: February 2017
- Final EIR: May 2017
- Findings, NOD: June 2017

Flow:
- Notice of Preparation
  - 30-day Public Scoping
- Draft EIR: February 2017
- Final EIR: May 2017
- Findings, NOD: June 2017

45-day Public Review

Public Notice
CEQA Resource Topics

- Aesthetics
- Agricultural and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Mineral Resources
- Noise and Vibration
- Public Services
- Recreation
- Transportation/Traffic
- Tribal Cultural Resources
- Utilities and Service Systems
- Population and Housing
- Cumulative impacts
Purpose of Scoping

To provide the public and agencies the opportunity to provide input on the scope and content of the environmental impact analysis.

Scoping comments can include information on:

- Potential environmental issues
- Potential mitigation measures
- Characteristics of the existing environment
- Resources that may be cumulatively affected
How to Comment

Submit oral or written comments tonight. Fill out a speaker card and wait to be called or write your comments on a written comment form.

Or submit written comments via mail or email. Send comments to:

Jack Bond, Senior Civil Engineer
City of Modesto Utilities Department
P.O. Box 642 (1010 10th Street)
Modesto, CA 95353
jbond@modestogov.com

Comments accepted until 5:00 p.m. on September 26, 2016.

NOP is available at: https://www.modestogov.com/847/Water-Plans-Reports/
Verbal Comments

- One person speaks at a time; please do not interrupt a speaker.
- Make clear and succinct comments in order for us to effectively capture the comment in notes.
- Be respectful of each other and differing points of view.
Public Comments Received
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STANISLAUS COUNTY ENVIRONMENTAL REVIEW COMMITTEE

September 30, 2016

Jack Bond, Senior Civil Engineer
City of Modesto Utilities Department
1010 Tenth Street, Suite 4500 / PO Box 642
Modesto, CA 95354

SUBJECT: ENVIRONMENTAL REFERRAL – CITY OF MODESTO UTILITIES DEPARTMENT – 2016 WATER MASTER PLAN – NOTICE OF PREPARATION OF DRAFT ENVIRONMENTAL IMPACT REPORT

Mr. Bond:

Thank you for the opportunity to review the scope for the above-referenced project.

The Stanislaus County Environmental Review Committee (ERC) has reviewed the subject project and has several significant concerns with the project as presented.

Sphere of Influence

The Sphere of Influence (SOI) as presented is incorrectly depicted in Figure 2. West of McHenry Avenue, Figure 2 shows the SOI boundary too far north and incorrectly encompasses the southeast portion of Salida.

The western SOI boundary depicted in Figure 2 shows the SOI incorrectly stretching west of Dakota Avenue between Murphy Road and North Avenue and to Dakota Avenue between Woodland Avenue and Maze Boulevard. Attached is a Local Agency Formation Commission (LAFCO) map detailing Modesto’s adopted SOI.

Study Area Boundary

Stanislaus County cannot support the inclusion of the areas known as the Beckwith Triangle and Wood Colony in the master plan as proposed. We strongly urge The City of Modesto to remove these areas from the plan and study area.
Stanislaus Community Plan

The proposed Study Area Boundary includes only a portion of the unincorporated community of Salida. Stanislaus County would hope for your consideration to include the entire Salida Community Plan area, including Amendment Area 1, into the Study Area Boundary. The attached map details the Salida Community Plan, which includes areas to the north, east and west of the existing Salida community. Zoning designations for the area are shown on the map and include: Planned Industrial; Business Park; Commercial; Residential; and Agricultural (for the proposed Stanislaus River Park).

The ERC appreciates the opportunity to comment on this project. I would encourage additional discussion between City and County leadership on these issues at our collective earliest convenience.

Sincerely,

Patrick Cavanah
Management Consultant
Environmental Review Committee

cc: ERC Members
Terry Withrow, County Board of Supervisors – D3
Stan Risen, County Chief Executive Officer
Keith D Boggs, Assistant Executive Officer
Matt Machado, County Public Works Director
Angela Freitas, County Planning and Community Development Director

Attachments:
1. City of Modesto Sphere of Influence Map – Adopted: December 1, 2010
2. Salida Community Plan Map
3. City of Modesto Water Master Plan, Figure 2 with County Notes
Modesto
Sphere of Influence (SOI) Adopted: December 1, 2010

- Modesto City Limits: 28,768+/-ac
- Sphere of Influence: 40,512+/-ac including City Limits
  (11,744+/-ac remaining outside City Limits)
- Primary Area: 37,499+/-ac including City Limits
  (8,731+/-ac remaining outside City Limits)

Source: LAFCO Files, Dec. 31, 2014
SALIDA COMMUNITY PLAN
SALIDA, CA
ILLUSTRATION 1
Figure 2
Study Area

Legend

- Outlying Service Area Names
- Sphere of Influence
- Contiguous Service Area
- Roads

*This is the maximum area; actual boundary will be determined by future council action

Prepared by: Horizon

City of Modesto Water Master Plan
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Appendix B

Biological Resources Technical Information
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CNDDDB Query Results
<table>
<thead>
<tr>
<th>Species</th>
<th>Element Code</th>
<th>Federal Status</th>
<th>State Status</th>
<th>Global Rank</th>
<th>State Rank</th>
<th>Rare Plant Rank/CDFW SSC or FP</th>
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</thead>
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<tr>
<td><em>Agelaius tricolor</em></td>
<td>ABPBX0020</td>
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<td>Candidate</td>
<td>G2G3</td>
<td>S1S2</td>
<td>SSC</td>
</tr>
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<td>AAAA01180</td>
<td>Threatened</td>
<td>Threatened</td>
<td>G2G3</td>
<td>S2S3</td>
<td>WL</td>
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<tr>
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<td>ARACC01020</td>
<td>None</td>
<td>None</td>
<td>G3</td>
<td>S3</td>
<td>SSC</td>
</tr>
<tr>
<td><em>Ardea herodias</em></td>
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| *Linderiella occidentalis*  
California linderiella | ICBRA06010 | None | None | G2G3 | S2S3 |  |
| *Lytta moesta*  
moestan blister beetle | IICOL4C020 | None | None | G2 | S2 |  |
| *Melospiza melodia*  
song sparrow (*"Modesto" population*) | ABPXA3010 | None | None | G5 | S3? | SSC |
| *Monardella leucocephala*  
Merced monardella | PDLAM180C0 | None | None | GH | SH | 1A |
| *Mylopharodon conocephalus*  
hardhead | AFCJB25010 | None | None | G3 | S3 | SSC |
| *Myotis yumanensis*  
Yuma myotis | AMACC01020 | None | None | G5 | S4 |  |
| *Neostapfia colusana*  
Colusa grass | PMPOA4C010 | Threatened | Endangered | G1 | S1 | 1B.1 |
| *Neotoma fuscipes riparia*  
riparian (=San Joaquin Valley) woodrat | AMAFF08081 | Endangered | None | G5T1Q | S1 | SSC |
| *Northern Hardpan Vernal Pool*  
Northern Hardpan Vernal Pool | CTT44110CA | None | None | G3 | S3.1 |  |
| *Oncorhynchus mykiss irideus*  
steelhead - Central Valley DPS | AFCHA0209K | Threatened | None | G5T2Q | S2 |  |
| *Orcuttia inaequalis*  
San Joaquin Valley Orcutt grass | PMPOA4G060 | Threatened | Endangered | G1 | S1 | 1B.1 |
| *Puccinellia simplex*  
California alkali grass | PMPOA53110 | None | None | G3 | S2 | 1B.2 |
| *Sphenopholis obtusata*  
prairie wedge grass | PMPOA5T030 | None | None | G5 | S2 | 2B.2 |
| *Sylvilagus bachmani riparius*  
riparian brush rabbit | AMAEB01021 | Endangered | Endangered | G5T1 | S1 |  |
| *Tuctoria greenei*  
Greene's tuctoria | PMPOA6N010 | Endangered | Rare | G1 | S1 | 1B.1 |
| *Vireo bellii pusillus*  
least Bell's vireo | ABPBW01114 | Endangered | Endangered | G5T2 | S2 |  |
| *Vulpes macrotis mutica*  
San Joaquin kit fox | AMAJA03041 | Endangered | Threatened | G4T2 | S2 |  |

Record Count: 56
California Native Plant Society Inventory of Rare and Endangered Plants
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**Plant List**  
Inventory of Rare and Endangered Plants

**17 matches found. Click on scientific name for details**

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<th>Scientific Name</th>
<th>Common Name</th>
<th>Family</th>
<th>Lifeform</th>
<th>Blooming Period</th>
<th>CA Rare Plant Rank</th>
<th>State Rank</th>
<th>Global Rank</th>
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<td><em>Atriplex cordulata var. cordulata</em></td>
<td>heartscale</td>
<td>Chenopodiaceae</td>
<td>annual herb</td>
<td>Apr-Oct</td>
<td>1B.2</td>
<td>S2</td>
<td>G3T2</td>
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<td><em>Atriplex coronata var. coronata</em></td>
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<td><em>Atriplex subtilis</em></td>
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**Suggested Citation**

USFWS IPaC Resource List
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.

Project information

NAME

Modesto Water Master Plan

LOCATION

San Joaquin and Stanislaus counties, California

DESCRIPTION

The goal of the Water Master Plan is to accommodate the water supply needs of the population and land uses described in the City of Modesto's General Plan, along with the City's other water customers in the outlying service areas of Del Rio, Ceres (Walnut Manor), Grayson, and portions of Turlock.

Local office

Sacramento Fish And Wildlife Office

📞 (916) 414-6600
_texts_replaced_for_company_security_descriptions_below_ (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. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service.

1. Species listed under the Endangered Species Act threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information.

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

### Mammals

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresno Kangaroo Rat Dipodomys nitratoides exilis</td>
<td>Endangered</td>
</tr>
<tr>
<td>Riparian Brush Rabbit Sylvilagus bachmani riparius</td>
<td>Endangered</td>
</tr>
<tr>
<td>San Joaquin Kit Fox Vulpes macrotis mutica</td>
<td>Endangered</td>
</tr>
</tbody>
</table>

### Birds

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Least Bell's Vireo Vireo bellii pusillus</td>
<td>Endangered</td>
</tr>
</tbody>
</table>

### Reptiles

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blunt-nosed Leopard Lizard Gambelia silus</td>
<td>Endangered</td>
</tr>
<tr>
<td>Giant Garter Snake Thamnophis gigas</td>
<td>Threatened</td>
</tr>
</tbody>
</table>
### Amphibians

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Red-legged Frog Rana draytonii</td>
<td>Threatened</td>
</tr>
<tr>
<td>California Tiger Salamander Ambystoma californiense</td>
<td>Threatened</td>
</tr>
</tbody>
</table>

There is a [critical habitat](https://ecos.fws.gov/ecp/species/2891) designated for this species. Your location is outside the designated critical habitat.

There is a [critical habitat](https://ecos.fws.gov/ecp/species/2076) designated for this species. Your location is outside the designated critical habitat.

### Fishes

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delta Smelt Hypomesus transpacificus</td>
<td>Threatened</td>
</tr>
<tr>
<td>Steelhead Oncorhynchus (=Salmo) mykiss</td>
<td>Threatened</td>
</tr>
</tbody>
</table>

There is a [critical habitat](https://ecos.fws.gov/ecp/species/321) designated for this species. Your location is outside the designated critical habitat.

There is a [critical habitat](https://ecos.fws.gov/ecp/species/1007) designated for this species. Your location overlaps the designated critical habitat.

### Insects

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valley Elderberry Longhorn Beetle Desmocerus californicus dimorphus</td>
<td>Threatened</td>
</tr>
</tbody>
</table>

There is a [critical habitat](https://ecos.fws.gov/ecp/species/7850) designated for this species. Your location is outside the designated critical habitat.

### Crustaceans

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservancy Fairy Shrimp Branchinecta conservatio</td>
<td>Endangered</td>
</tr>
<tr>
<td>Vernal Pool Fairy Shrimp Branchinecta lynchi</td>
<td>Threatened</td>
</tr>
<tr>
<td>Vernal Pool Tadpole Shrimp Lepidurus packardi</td>
<td>Endangered</td>
</tr>
</tbody>
</table>

There is a [critical habitat](https://ecos.fws.gov/ecp/species/8246) designated for this species. Your location is outside the designated critical habitat.

There is a [critical habitat](https://ecos.fws.gov/ecp/species/498) designated for this species. Your location is outside the designated critical habitat.

There is a [critical habitat](https://ecos.fws.gov/ecp/species/2246) designated for this species. Your location is outside the designated critical habitat.

### Flowering Plants

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greene’s Tuctoria Tuctoria greenei</td>
<td>Endangered</td>
</tr>
<tr>
<td>San Joaquin Orcutt Grass Orcuttia inaequalis</td>
<td>Threatened</td>
</tr>
</tbody>
</table>

There is a [critical habitat](https://ecos.fws.gov/ecp/species/1573) designated for this species. Your location is outside the designated critical habitat.

There is a [critical habitat](https://ecos.fws.gov/ecp/species/5506) designated for this species. Your location is outside the designated critical habitat.
Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves. This location overlaps the critical habitat for the following species:

<table>
<thead>
<tr>
<th>NAME</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steelhead Oncorhynchus (=Salmo) mykiss South-Central California Coast DPS</td>
<td>Final designated</td>
</tr>
<tr>
<td>Steelhead Oncorhynchus (=Salmo) mykiss Northern California DPS</td>
<td>Final designated</td>
</tr>
<tr>
<td>Steelhead Oncorhynchus (=Salmo) mykiss Southern California DPS</td>
<td>Final designated</td>
</tr>
<tr>
<td>Steelhead Oncorhynchus (=Salmo) mykiss California Central Valley DPS</td>
<td>Final designated</td>
</tr>
</tbody>
</table>

Migratory birds

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

Any activity that results in the take (to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct) of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service³. There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Year-round bird occurrence data http://www.birdscanada.org/birdmon/default/datasummaries.jsp

The migratory birds species listed below are species of particular conservation concern (e.g. Birds of Conservation Concern) that may be potentially affected by activities in this location. It is not a list of every bird species you may find in this location, nor a guarantee that all of the bird species on this list will be found on or near this location. Although it is important to try to avoid and minimize impacts to all birds, special attention should be made to avoid and minimize impacts to birds of priority concern. To view available data on other bird species that may occur in your project area, please visit the AKN Histogram Tools and Other Bird Data Resources. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

<table>
<thead>
<tr>
<th>NAME</th>
<th>SEASON(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen's Hummingbird Selasphorus sasin</td>
<td>Migrating</td>
</tr>
<tr>
<td>Bald Eagle Haliaeetus leucocephalus</td>
<td>Year-round</td>
</tr>
<tr>
<td>Species</td>
<td>Season</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Black Rail <em>Laterallus jamaicensis</em></td>
<td>Breeding</td>
</tr>
<tr>
<td>Burrowing Owl <em>Athene cunicularia</em></td>
<td>Year-round</td>
</tr>
<tr>
<td>Calliope Hummingbird <em>Stellula calliope</em></td>
<td>Migrating</td>
</tr>
<tr>
<td>Costa's Hummingbird <em>Calypte costae</em></td>
<td>Year-round</td>
</tr>
<tr>
<td>Fox Sparrow <em>Passerella iliaca</em></td>
<td>Wintering</td>
</tr>
<tr>
<td>Least Bittern <em>Ixobrychus exilis</em></td>
<td>Breeding</td>
</tr>
<tr>
<td>Lesser Yellowlegs <em>Tringa flavipes</em></td>
<td>Wintering</td>
</tr>
<tr>
<td>Loggerhead Shrike <em>Lanius ludovicianus</em></td>
<td>Year-round</td>
</tr>
<tr>
<td>Long-billed Curlew <em>Numenius americanus</em></td>
<td>Wintering</td>
</tr>
<tr>
<td>Mountain Plover <em>Charadrius montanus</em></td>
<td>Wintering</td>
</tr>
<tr>
<td>Nuttall's Woodpecker <em>Picoides nuttallii</em></td>
<td>Year-round</td>
</tr>
<tr>
<td>Oak Titmouse <em>Baeolophus inornatus</em></td>
<td>Year-round</td>
</tr>
<tr>
<td>Peregrine Falcon <em>Falco peregrinus</em></td>
<td>Year-round</td>
</tr>
<tr>
<td>Rufous Hummingbird <em>selasphorus rufus</em></td>
<td>Migrating</td>
</tr>
<tr>
<td>Short-eared Owl <em>Asio flammeus</em></td>
<td>Wintering</td>
</tr>
<tr>
<td>Swainson's Hawk <em>Buteo swainsoni</em></td>
<td>Breeding</td>
</tr>
<tr>
<td>Tricolored Blackbird <em>Agelaius tricolor</em></td>
<td>Year-round</td>
</tr>
<tr>
<td>Western Grebe <em>Aechmophorus occidentalis</em></td>
<td>Wintering</td>
</tr>
<tr>
<td>Williamson's Sapsucker <em>Sphyrapicus thyroideus</em></td>
<td>Year-round</td>
</tr>
</tbody>
</table>
What does IPaC use to generate the list of migratory bird species potentially occurring in my specific location?

Landbirds:

Migratory birds that are displayed in the IPaC species list are based on ranges in the latest edition of the National Geographic Guide, Birds of North America (6th Edition, 2011 by Jon L. Dunn, and Jonathan Alderfer). Although these ranges are coarse in nature, a number of U.S. Fish and Wildlife Service migratory bird biologists agree that these maps are some of the best range maps to date. These ranges were clipped to a specific Bird Conservation Region (BCR) or USFWS Region/Regions, if it was indicated in the 2005 list of Birds of Conservation Concern (BCC) that a species was a BCC species only in a particular Region/Regions. Additional modifications have been made to some ranges based on more local or refined range information and/or information provided by U.S. Fish and Wildlife Service biologists with species expertise. All migratory birds that show in areas on land in IPaC are those that appear in the 2008 Birds of Conservation Concern report.

Atlantic Seabirds:

Ranges in IPaC for birds off the Atlantic coast are derived from species distribution models developed by the National Oceanic and Atmospheric Association (NOAA) National Centers for Coastal Ocean Science (NCCOS) using the best available seabird survey data for the offshore Atlantic Coastal region to date. NOAANCCOS assisted USFWS in developing seasonal species ranges from their models for specific use in IPaC. Some of these birds are not BCC species but were of interest for inclusion because they may occur in high abundance off the coast at different times throughout the year, which potentially makes them more susceptible to certain types of development and activities taking place in that area. For more refined details about the abundance and richness of bird species within your project area off the Atlantic Coast, see the Northeast Ocean Data Portal. The Portal offers data and information about other types of taxa that may be helpful in your project review.

About the NOAANCCOS models: the models were developed as part of the NOAANCCOS project: Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf. The models resulting from this project are being used in a number of decision-support/mapping products in order to help guide decision-making on activities off the Atlantic Coast with the goal of reducing impacts to migratory birds. One such product is the Northeast Ocean Data Portal, which can be used to explore details about the relative occurrence and abundance of bird species in a particular area off the Atlantic Coast.

All migratory bird range maps within IPaC are continuously being updated as new and better information becomes available.

Can I get additional information about the levels of occurrence in my project area of specific birds or groups of birds listed in IPaC?

Landbirds:

The Avian Knowledge Network (AKN) provides a tool currently called the "Histogram Tool", which draws from the data within the AKN (latest survey, point count, citizen science datasets) to create a view of relative abundance of species within a particular location over the course of the year. The results of the tool depict the frequency of detection of a species in survey events, averaged between multiple datasets within AKN in a particular week of the year. You may access the histogram tools through the Migratory Bird Programs AKN Histogram Tools webpage.

The tool is currently available for 4 regions (California, Northeast U.S., Southeast U.S. and Midwest), which encompasses the following 32 states: Alabama, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin.

In the near future, there are plans to expand this tool nationwide within the AKN, and allow the graphs produced to appear with the list of trust resources generated by IPaC, providing you with an additional level of detail about the level of occurrence of the species of particular concern potentially occurring in your project area throughout the course of the year.

Atlantic Seabirds:

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 NOAANCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Facilities

Wildlife refuges

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

THERE ARE NO REFUGES 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.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND
- PEMC
- PEMCx
- PEMA
- PEMF

FRESHWATER FORESTED/SHRUB WETLAND
- PFO/EMC
- PFOA
- PSSA
- PSSC
- PSSCx

FRESHWATER POND
- PUBKh
- PUBFx
- PUBF
- PUBKx
- PUBHx

RIVERINE
- R2UBH
- R2USA

A full description for each wetland code can be found at the National Wetlands Inventory website: https://ecos.fws.gov/ipac/wetlands/decoder

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 tuberificid 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 C

Tribal Cultural Resources Technical Information
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March 2016

City of Modesto
Community & Economic Development
Brent Sinclair, AICP Director
1010, 10 Street, Suite 3330
P.O. Box 642
Modesto CA. 95353

RE: Formal Request for Tribal Consultation Pursuant to the California Environmental Quality Act (CEQA), Public Resources Code section 21080.3.1, subds. (b), (d) and (e) for City of Modesto

Dear Mr. Sinclair

This letter constitutes a formal request for tribal consultation for the first phase of planning under the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code section 21080.3.1 subdivisions (b), (d) and (e)) for the mitigation of potential project impacts to tribal cultural and environmental resources for the above referenced project. The Lone Band of Miwok Indians requests formal notice and information for all projects within your agency’s jurisdiction.

The Lone Band of Miwok Indians requests consultation on the following topics listed below, which shall be included in consultation if requested (Public Resources Code section 21080.3.2, subd. (a)):

- Alternatives to the project
- Recommended mitigation measures
- Significant effects of the project

The Lone Band of Miwok Indians also requests consultation on the following discretionary topics listed below (Public Resources Code section 21080.3.2, subd. (a)):

- Type of environmental review necessary
- Significance of tribal cultural resources, including any regulations, policies or standards used by your agency to determine significance of tribal cultural resources
- Significance of the project’s impacts on tribal cultural resources
- Project alternatives and/or appropriate measures for preservation or mitigation that we may recommend, including, but not limited to:

(1) Avoidance and preservation of the resources in place, pursuant to Public Resources Code section 21084.3, including, but not limited to, planning and construction, geotechnical tests, utility location, and pedestrian surveys to avoid harming the resources (including water, endangered tribal plant resources, and endangered animal resources), and to protect the cultural and natural context, or planning greenspace, parks or other open space, to incorporate the resources with culturally appropriate protection and management criteria;
(2) Treating the resources with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resources, including but not limited to the following:

- Protecting the cultural character and integrity of the resource
- Protecting the traditional use of the resource
- Protecting the confidentiality of the resource

(3) Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places

(4) Protecting the resource

Additionally, the Lone Band of Miwok Indians would like to receive any cultural resources assessments or other assessments that have been completed on all or part of the project's potential “area of project effect” (APE), including, but not limited to:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

- A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE
- Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response
- Notification of whether the probability is low, moderate, or high that cultural resources are located in the APE
- Notification if a records search indicates a low, moderate or high probability that unrecorded cultural resources are located in the potential APE
- Notification if a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present

2. The results of any archaeological inventory survey that was conducted, including:

- Any report that may contain site forms, site significance, and suggested mitigation measures
- All information regarding site locations, Native American human remains, and associated funerary objects; such information should be placed in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code Section 6254.10.
3. The results of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission. The request form can be found at [http://www.dot.ca.gov/hq/env/cultural/#templates](http://www.dot.ca.gov/hq/env/cultural/#templates) under Compliance Document Templates. Click on the link Sacred Lands Inventory Form to download the pdf. USGS 7.5- minute quadrangle name, township, range, and section are required for the search.

4. Any ethnographic studies conducted for any area including all or part of the potential APE

5. Any geotechnical reports regarding all or part of the potential APE

We would like to remind your agency that CEQA Guidelines section 15126.4, subdivision (b)(3) states that preservation-in-place is the preferred manner of mitigating impacts to archaeological sites. Section 15126.4, subd. (b)(3) of the CEQA Guidelines has been interpreted by the California Court of Appeal to mean that “feasible preservation in place must be adopted to mitigate impacts to historical resources of an archaeological nature unless the lead agency determines that another form of mitigation is available and provides superior mitigation of impacts.” *Madera Oversight Coalition v. County of Madera* (2011) 199 Cal.App.4th 48, disapproved on other grounds, *Neighbors for Smart Rail v. Exposition Metro Line Construction Authority* (2013) 57 Cal.4th 439.

The Lone Band of Miwok Indians expects to begin consultation within 30 days of your receipt of this letter. Please contact the Cultural Committee of the Lone Band of Miwok Indians.

Thank you.

Sincerely,

[Signature]

Randy Yonemura
Cultural Committee Chair
P.O. Box 699
9252 Bush St., Suite 2
Plymouth, CA 95669
Tel. (209) 245-5800
Email: Randy_yonemura@yahoo.com
August 25th 2015

Modesto
Community and Economic Development
Brent Sinclair, ACIP, Director
1010 10th Street, Suite 3300
P.O. Box 642
Modesto, CA 95353

RE: California Environmental Quality Act Public Resources Code section 21080.3, subd. (b)
Request for Formal Notification of Proposed Projects Within the Northern Valley Yokut Tribe’s
Geographic Area of Traditional and Cultural Affiliation.

Dear Brent Sinclair

As of the date of this letter, in accordance with Public Resources Code Section 21080.3.1, subd.
(b) Northern Valley Yokut Tribe, which is traditionally and culturally affiliated with a geographic
area within your agency’s geographic area of jurisdiction, requests formal notice of and
information on proposed projects for which your agency will serve as a lead agency under the
California Environmental Quality Act (CEQA), Public Resources Code section 21000 et seq.

Pursuant to Public Resources Code section 21080.3.1, subd. (b), and until further notice, we
hereby designate the following person as the tribe’s lead contact for purposes of receiving
notices of proposed projects from your agency:

Katherine Erolinda Perez
MLD
990 North Fine Rd. Linden CA, 95236
Phone number: (209) 887-3415
Cell Phone Number: (209) 649-8972
Fax Number: (209) 887-3415
Email: canutes@verizon.net

We request that all notices be sent via certified U.S. Mail with return receipt. Following receipt
and review of the information your agency provides, within the 30-day period by Public
Resources Code section 21080.3.1, subd. (d), the Northern Valley Yokut Tribe may request
consultation, as defined by Public Resources Code section 21080.3.1, subd. (b), pursuant to
Public Resources Code section 21080.3.2 to mitigate any project impacts a specific project may
cause to tribal resources.

If you have any question or need information, please contact our lead contact person listed
above.

Sincerely,
Katherine Erolinda Perez
MLD
June 29, 2016

Lois Martin, Chairperson  
Southern Sierra Miwuk Nation  
P.O. Box 186  
Mariposa, CA 95338

Subject: City of Modesto Utilities Department Water Master Plan Environmental Impact Report

Dear Chairperson Martin,

The City of Modesto (City) Utilities Department will serve as lead agency under the California Environmental Quality Act (CEQA) in preparing an Environmental Impact Report (EIR) for the Water Master Plan (WMP) (Program or Proposed Project) EIR. A Notice of Preparation will be released, as required by California Code of Regulations title 14, section 15000 et seq. The City periodically reevaluates its water service system through development of a water master plan (also referred to as Engineer’s Reports). The proposed Plan updates and replaces the City’s 2010 Water System Engineer’s Report, and includes a variety of Capital Improvement Program (CIP) projects to improve the City’s water service system.

The proposed Plan would consist of a CIP for system-wide implementation needed to deliver safe and reliable water, which will effectively meet water demand requirements under both existing and future developed conditions. The Plan covers a contiguous area that includes the City’s Sphere of Influence (SOI), Salida, North Ceres, and some unincorporated areas within and adjacent to the SOI including Empire. Outlying service areas included in the Plan are Del Rio, Ceres (Walnut Manor), Grayson, and portions of Turlock (Figure 1).

The CIPs proposed in the WMP include improvements to existing water storage tanks, groundwater wells, pump stations, and pipelines; and construction and operation of new water storage tanks, groundwater wells, wellhead treatment or blending facilities, pump stations, extension of water pipelines, and repair or replacement of water pipelines. Other CIPs include installation of generators for back-up power at various booster pump stations for tanks and wells, Supervisory Control and Data Acquisition (SCADA) system upgrades to improve the City’s management of the water system, and installation of fencing and security measures at well and tank sites. Additionally, the WMP includes construction of a new corporation yard, and an aquifer storage recovery program.

The CIPs would be implemented within the City’s contiguous and outlying service areas. The exact locations of some of the proposed new facilities have yet to be finalized; where tentative sites have been identified, these locations will be identified in the Draft EIR.
Pursuant to Public Resources Code Section 21080.3.1 et seq., the City of Modesto Utilities Department is notifying you of our intent to consider the Proposed Project. To initiate formal consultation with the City regarding any potential impacts of this Proposed Project on tribal cultural resources, Public Resources Code Section 21080.3.1(e) requires that you contact us within 30 days from your receipt of this letter. If you wish to request the consultation, or if you have any questions, please contact:

Jack Bond  
Senior Environmental Engineer  
City of Modesto Utilities Department  
1010 Tenth Street, Suite 4600  
Modesto, CA 95354  
Phone: (209) 577-5424  
Email: jbond@modestogov.com

If you do not contact us within 30 days following receipt of this letter, the City of Modesto Utilities Department will proceed with processing the above referenced application with the assumption that the project will not have a potential effect on tribal cultural resources. If consultation is requested, please provide the name and contact information of the designated lead contact person as part of your request. The City will contact the designated person to set a meeting date to begin consultation within 30 days of our receipt of your request.

More detailed information about this project is available, at your request. Thank you for giving this matter your prompt attention.

Sincerely,

[Signature]
Jack Bond  
Senior Environmental Engineer  
City of Modesto Utilities Department

Attachments
June 29, 2016

Katherine Erolinda Perez, MLD  
North Valley Yokuts Tribe  
990 North Fine Road  
Linden, CA 95236

Subject: City of Modesto Utilities Department Water Master Plan Environmental Impact Report

Dear Ms. Perez,

The City of Modesto (City) Utilities Department will serve as lead agency under the California Environmental Quality Act (CEQA) in preparing an Environmental Impact Report (EIR) for the Water Master Plan (WMP) (Program or Proposed Project) EIR. A Notice of Preparation will be released, as required by California Code of Regulations title 14, section 15000 et seq. The City periodically reevaluates its water service system through development of a water master plan (also referred to as Engineer’s Reports). The proposed Plan updates and replaces the City’s 2010 Water System Engineer’s Report, and includes a variety of Capital Improvement Program (CIP) projects to improve the City’s water service system.

The proposed Plan would consist of a CIP for system-wide implementation needed to deliver safe and reliable water, which will effectively meet water demand requirements under both existing and future developed conditions. The Plan covers a contiguous area that includes the City’s Sphere of Influence (SOI), Salida, North Ceres, and some unincorporated areas within and adjacent to the SOI including Empire. Outlying service areas included in the Plan are Del Rio, Ceres (Walnut Manor), Grayson, and portions of Turlock (Figure 1).

The CIPs proposed in the WMP include improvements to existing water storage tanks, groundwater wells, pump stations, and pipelines; and construction and operation of new water storage tanks, groundwater wells, wellhead treatment or blending facilities, pump stations, extension of water pipelines, and repair or replacement of water pipelines. Other CIPs include installation of generators for back-up power at various booster pump stations for tanks and wells, Supervisory Control and Data Acquisition (SCADA) system upgrades to improve the City’s management of the water system, and installation of fencing and security measures at well and tank sites. Additionally, the WMP includes construction of a new corporation yard, and an aquifer storage recovery program.

The CIPs would be implemented within the City’s contiguous and outlying service areas. The exact locations of some of the proposed new facilities have yet to be finalized; where tentative sites have been identified, these locations will be identified in the Draft EIR.
Pursuant to Public Resources Code Section 21080.3.1 et seq., the City of Modesto Utilities Department is notifying you of our intent to consider the Proposed Project. To initiate formal consultation with the City regarding any potential impacts of this Proposed Project on tribal cultural resources, Public Resources Code Section 21080.3.1(e) requires that you contact us within 30 days from your receipt of this letter. If you wish to request the consultation, or if you have any questions, please contact:

Jack Bond  
Senior Environmental Engineer  
City of Modesto Utilities Department  
1010 Tenth Street, Suite 4600  
Modesto, CA 95353  
Phone: (209) 577-5424  
Email: jbond@modestogov.com

If you do not contact us within 30 days following receipt of this letter, the City of Modesto Utilities Department will proceed with processing the above referenced application with the assumption that the project will not have a potential effect on tribal cultural resources. If consultation is requested, please provide the name and contact information of the designated lead contact person as part of your request. The City will contact the designated person to set a meeting date to begin consultation within 30 days of our receipt of your request.

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Sincerely,

[Signature]
Jack Bond  
Senior Environmental Engineer  
City of Modesto Utilities Department

Attachment
June 29, 2016

Neil Peyron, Chairperson
Tule River Indian Tribe
P.O. Box 589
Porterville, CA 93258

Subject: City of Modesto Utilities Department Water Master Plan Environmental Impact Report

Dear Chairperson Peyron,

The City of Modesto (City) Utilities Department will serve as lead agency under the California Environmental Quality Act (CEQA) in preparing an Environmental Impact Report (EIR) for the Water Master Plan (WMP) (Program or Proposed Project) EIR. A Notice of Preparation will be released, as required by California Code of Regulations title 14, section 15000 et seq. The City periodically reevaluates its water service system through development of a water master plan (also referred to as Engineer’s Reports). The proposed Plan updates and replaces the City’s 2010 Water System Engineer’s Report, and includes a variety of Capital Improvement Program (CIP) projects to improve the City’s water service system.

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City of Modesto Utilities Department
1010 Tenth Street, Suite 4600
Modesto, CA 95353
Phone: (209) 577-5424
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More detailed information about this project is available, at your request. Thank you for giving this matter your prompt attention.

Sincerely,

Jack Bond
Senior Environmental Engineer
City of Modesto Utilities Department

Attachment
Appendix D
Draft Mitigation Monitoring and Reporting Program
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**MITIGATION MONITORING AND REPORTING PROGRAM SUMMARY TABLE**

The following mitigation monitoring and reporting program (MMRP) summary table includes the mitigation measures identified in the City of Modesto (City) Wastewater Master Plan (WMP) Program Environmental Impact Report (EIR). For each mitigation measure, this table identifies monitoring and reporting actions that shall be carried out, the party responsible for implementing these actions, and the monitoring schedule. This table also includes a column where responsible parties can check off monitoring and reporting actions as they are completed. It is the responsibility of the Contractor to ensure that actions required for all of the mitigation measures listed herein are included in the project plans and specifications. It is the responsibility of the City to review and confirm that all of the mitigation measure actions described herein are in the project plans and specifications.

**Acronyms and Abbreviations**

a.m.  ante meridiem  
ANSI  American National Standards Institute  
CDFG  California Department of Fish and Game  
CDFW  California Department of Fish and Wildlife  
CEQA  California Environmental Quality Act  
CIP  capital improvement project  
City  City of Modesto  
CPUC  California Public Utilities Commission  
CRHR  California Register of Historical Resources  
CWA  Clean Water Act  
dBA  A-weighted decibel scale  
EIR  environmental impact report  
GPS  global positioning system  
MBTA  Migratory Bird Treaty Act  
MLD  Most Likely Descendant  
MMRP  mitigation monitoring and reporting program  
mph  miles per hour  
NAHC  Native American Heritage Commission  
NHPA  National Historic Preservation Act  
NOx  nitrogen oxides  
NRHP  National Register of Historic Places  
p.m.  post meridiem  
PM  particulate matter  
PM$_{2.5}$  particulate matter of aerodynamic radius of 2.5 micrometers or less  
PM$_{10}$  particulate matter of aerodynamic radius of 10 micrometers or less  
Rare Plant Plan  Rare Plant Relocation, Management, and Protection Plan  
ROG  reactive organic gases
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>SJVAPCD</td>
<td>San Joaquin Valley Air Pollution Control District</td>
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<td>SVP</td>
<td>Society of Vertebrate Paleontology</td>
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<td>SWPPP</td>
<td>stormwater pollution prevention plan</td>
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<td>U.S.</td>
<td>United States</td>
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<td>USFWS</td>
<td>U.S. Fish and Wildlife Service</td>
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<tr>
<td>VELB</td>
<td>valley elderberry longhorn beetle</td>
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<td>WMP</td>
<td>Water Master Plan</td>
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<td>Mitigation Measure</td>
<td>Contractor Responsibility</td>
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<tr>
<td><strong>Aesthetics</strong></td>
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<td>AES-1 Locate Staging Areas Away from Public Areas and Install Screening. For components located in residential areas and near public parks or trails, the City shall implement the following measures. Construction staging areas for equipment, vehicle parking, and material storage will be sited as far as possible from residences, major roadways, parks and other public areas. To the extent practicable, staging areas shall be sited in areas where existing topography and vegetation can help screen views of the staging area. Where on-street or on-site staging areas are necessary, chain-link fencing with slats (either earth tone or another neutral color) or other screening methods shall be installed around designated staging areas to screen views of equipment and materials.</td>
<td>1. Include requirements in project plans and specifications. 2. Identify staging area locations that meet the requirements described in the measure. 3. In instances where on-street or on-site staging areas are necessary, implement screening methods.</td>
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<td>AES-2 Incorporate Aesthetic Considerations into Design for Storage Tanks, Pump Stations, Groundwater Well Buildings, and Other Above-ground Facilities to Be Consistent with Surrounding Setting. Where wells, tanks, pump stations and other above-ground facilities are located in proximity to or are readily visible from residential areas, recreational areas, or public roadways, the facility and fencing shall be designed to be consistent with the surrounding setting, to the maximum extent feasible. The following design elements shall be</td>
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<td>Mitigation Measure</td>
<td>Contractor Responsibility</td>
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<td>used to enhance the aesthetic appearance of proposed facilities and to integrate them with the existing visual setting:</td>
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<td>▪ New storage tanks and pump station buildings shall be set back from public views and, upon completing Mitigation Measure AES-2, the City and/or contractor shall consider partially burying tanks to minimize view obstructions.</td>
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<td>▪ Proposed facility designs shall integrate elements such as color, materials, and pattern of the surrounding landscape.</td>
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<td>▪ The exterior of aboveground facilities shall be painted or include appropriate concrete admixtures to achieve low-glare, earth-tone colors that blend with the surrounding terrain and visual setting.</td>
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<td>▪ Wherever possible, use of unpainted metallic surfaces and other reflective sources that may cause increased levels of reflectivity shall be eliminated.</td>
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<td>▪ Wherever possible, install native landscaping and/or fencing to help screen views of the water treatment plant, pump station, and water storage tanks from public roads and adjacent residences.</td>
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<td>▪ Any outdoor night lighting shall be motion-activated and include baffles that direct lighting onto the facility and minimize light spillage onto adjoining properties.</td>
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</tbody>
</table>
### Agricultural Resources

No feasible mitigation measures, such as restoration of Prime Farmland that has been previously converted or participation in an agricultural conservation easement program, have been identified to reduce impacts on agricultural resources to a less-than-significant level. Therefore, they would be **significant and unavoidable**.

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<thead>
<tr>
<th>Mitigation Measure</th>
<th>Contractor Responsibility</th>
<th>City Responsibility</th>
<th>Monitoring Schedule</th>
<th>Completion Date and Initials</th>
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</thead>
</table>
| **AQ-1 Implement SJVAPCD Regulation VIII Control Measures for Construction Emissions of PM$_{10}$**<br>The following controls are required to be implemented by the City or its contractor at all construction sites.  
  - All disturbed areas, including storage piles, that are not being actively used for construction purposes will be effectively stabilized to avoid dust emissions through application of water, a chemical stabilizer/suppressant, or by covering these areas with a tarp or other suitable cover or vegetative ground cover.  
  - All on-site unpaved roads and off-site unpaved access roads will be effectively stabilized to avoid dust emissions using water or a chemical stabilizer/suppressant.  
  - All land-clearing, grubbing, scraping, excavation, land-leveling, grading, cut-and-fill, and demolition activities will be effectively controlled to avoid | – | – | – | – |

1. Include emission reduction measures into the project plans and specifications.
2. Implement and document emission reduction measures.

1. Confirm emission reduction measures are incorporated into the project plans and specifications.
2. Confirm emission reduction measures are implemented properly.

1. During development of the plans and specifications.
2. During construction.
The following measures will be implemented by the City or its contractor at construction sites when required to reduce fugitive dust emissions through the application of water during work or by presoaking.

- When materials are transported off-site, all material will be covered or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the top of the container will be maintained.
- All operations will limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. (The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. The use of blower devices is expressly forbidden.)
- Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles will be effectively stabilized of fugitive dust emissions using sufficient water or chemical stabilizer/suppressant.
- Within urban areas, trackout will be immediately removed when it extends 50 or more feet from the site and at the end of each workday.
- Any site with 150 or more vehicle trips per day will prevent carryout and trackout.

**AQ-2 Implement Enhanced Control Measures for Construction Emissions of PM$_{10}$**

<table>
<thead>
<tr>
<th>Mitigation Measure</th>
<th>Contractor Responsibility</th>
<th>City Responsibility</th>
<th>Monitoring Schedule</th>
<th>Completion Date and Initials</th>
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<tbody>
<tr>
<td>- Include enhanced emission control measures into</td>
<td>1. Confirm enhanced emission control</td>
<td>1. During preparation of plans and specifications.</td>
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</table>
### Mitigation Measures

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<thead>
<tr>
<th>Mitigation Measure</th>
<th>Contractor Responsibility</th>
<th>City Responsibility</th>
<th>Monitoring Schedule</th>
<th>Completion Date and Initials</th>
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</thead>
</table>
| mitigate significant PM$_{10}$ impacts as determined by SJVAPCD Air Quality Thresholds of Significance discussed above (note, these measures are to be implemented in addition to Regulation VIII requirements):  
   1. Limit traffic speeds on unpaved roads to 15 miles per hour (mph).  
   2. Install sandbags or other erosion-control measures to prevent silt runoff. | project plans and specifications.  
   2. Implement and document enhanced emission control measures. | measures are included in project plans and specifications.  
   2. Confirm that enhanced emission control measures are implemented properly. | 2. During construction. |
| The following measures are strongly encouraged at construction sites that are large in area, are located near sensitive receptors, or that warrant additional emissions reductions for any other reason.  
   1. Install wheel washers for all exiting trucks, or wash off all trucks and equipment leaving the site.  
   2. Install wind breaks at windward sides of construction areas.  
   3. Suspend excavation and grading activity when winds exceed 20 miles per hour (mph).  
   4. Limit the area subject to excavation, grading, and other construction activity at any one time.  
   5. Regardless of the wind speed, an owner/operator must comply with Regulation VIII’s 20% opacity limitation. | 1. N/A  
   2. If necessary, and if directed by the City, install | 1. For new or modified facilities, conduct site- | 1. Prior to or during design phase. |

#### AQ-3

**Implement Control Measures for Operation Emissions of PM$_{10}$ and for Ozone Precursors (ROG and NOx)**

In compliance with SJVAPCD rules, when the Air Quality Thresholds of Significance will be exceeded, the City or its contractor will:

1. Prior to or during design phase.
contractor shall install equipment with Best Available Control Technology, as indicated in a site-specific air quality analysis, to reduce emissions below the SJVAPCD significance threshold. Installed equipment with Best Available Control Technology may include but not be limited to pumping, dewatering, aerating, or heating equipment. This measure will be implemented at all new or modified water system sites when required to mitigate significant PM10 and ozone impacts, due to exceedance of Air Quality Thresholds of Significance.

**Biological Resources**

**BIO-1 Perform Focused Surveys for Special-status Plant Species.**
Prior to implementation of construction activities at a site with grasslands, valley and foothill riparian, wetlands, or vernal pools, a qualified botanist will perform floristic surveys for special-status plant species. Floristic surveys shall occur during the appropriate blooming period(s) for all special-status plant species with the potential to occur at the component site, as determined by the botanist. If special-status plants may be directly or indirectly

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<tr>
<th>Mitigation Measure</th>
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<th>Monitoring Schedule</th>
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<tr>
<td>contractor shall install equipment with Best Available Control Technology, as indicated in a site-specific air quality analysis, to reduce emissions below the SJVAPCD significance threshold. Installed equipment with Best Available Control Technology may include but not be limited to pumping, dewatering, aerating, or heating equipment. This measure will be implemented at all new or modified water system sites when required to mitigate significant PM10 and ozone impacts, due to exceedance of Air Quality Thresholds of Significance.</td>
<td>equipment with Best Available Control Technology at new or modified facility sites.</td>
<td>specific air quality analysis to determine if operational emissions will exceed SJVAPCD thresholds.</td>
<td>2. If thresholds will be exceeded, ensure that equipment with Best Available Control Technology is installed.</td>
<td>2. If necessary, include equipment specifications during development of plans and specifications. Install equipment during construction.</td>
</tr>
<tr>
<td><strong>Biological Resources</strong></td>
<td><strong>BIO-1</strong></td>
<td><strong>Perform Focused Surveys for Special-status Plant Species.</strong> Prior to implementation of construction activities at a site with grasslands, valley and foothill riparian, wetlands, or vernal pools, a qualified botanist will perform floristic surveys for special-status plant species. Floristic surveys shall occur during the appropriate blooming period(s) for all special-status plant species with the potential to occur at the component site, as determined by the botanist. If special-status plants may be directly or indirectly</td>
<td>1. N/A 2. Provide the City with advance notice of construction schedule and anticipated start date. Support site access for qualified biologist.</td>
<td>1. Retain a qualified biologist to conduct focused surveys. 2. Ensure qualified biologist conducts focused surveys prior to</td>
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<td>Mitigation Measure</td>
<td>Contractor Responsibility</td>
<td>City Responsibility</td>
<td>Monitoring Schedule</td>
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<td>BIO-2 Avoid, Minimize, and Compensate for Impacts on Special-status Plant Species.</td>
<td>1. If necessary, redesign or modify Program components to avoid or minimize impacts on special-status species. 2. Incorporate requirements prohibiting activities within fenced environmentally-sensitive areas</td>
<td>1. Confirm that modified design would avoid or minimize special-status plant species. 2. Confirm that requirements prohibiting activities within fenced environmentally-sensitive areas are included in</td>
<td>1. During design phase. 2. During preparation of plans and specifications. 3. Prior to start of construction. 4. Prior to construction. 5. During and/or after construction. Annual monitoring</td>
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<td>Mitigation Measure</td>
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<td>edge of the population where feasible, and where not feasible, the buffer will be</td>
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<td>large enough to adequately protect populations from program activities. Where</td>
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<td>special-status plant populations are located in wetlands, silt fencing also will</td>
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<td>be installed. The location of the fencing will be marked in the field with stakes</td>
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<td>and flagging, and shown on the construction drawings. The construction</td>
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<td>specifications will contain clear language that prohibits construction-related</td>
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<td>activities, vehicle operation, material and equipment storage, and other surface</td>
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<td>disturbing activities within the fenced environmentally sensitive area.</td>
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<td>• If avoidance is not feasible, the City will consult with either CDFW or USFWS,</td>
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<td>or both, depending upon which has jurisdiction, to determine whether</td>
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<td>transplantation of special-status plant species is feasible. If the agencies concur</td>
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<td>that it is a feasible mitigation measure, the botanist will develop and implement</td>
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<td>a Rare Plant Relocation, Management, and Protection Plan (Rare Plant Plan) in</td>
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<td>coordination with the appropriate agencies. The Rare Plant Plan will include the</td>
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<td>following components: relocation methods that will minimize the potential loss of</td>
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<td>plants from relocation, management plans and success criteria by which the</td>
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<td>mitigation can be measured for success, and regular monitoring to ensure that the</td>
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<td>plants are successfully transplanted. Success criteria shall require that at least</td>
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<td>75% of the plants survive. The contractor is responsible for including these</td>
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<td>mitigation measures into plans and specifications.</td>
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<td>3. Protect any special-status plant species occurrences near a Program component</td>
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<td>site with environmentally-sensitive area fencing.</td>
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<td>4. N/A</td>
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<td>5. If directed by the City, implement the Rare Plant Plan prepared by the qualified</td>
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<td>botanist.</td>
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<td>Contractor Responsibility</td>
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<td>City Responsibility</td>
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<tr>
<td>Monitoring Schedule</td>
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<td>Completion Date and Initials</td>
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<td>plans and specifications.</td>
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<td>3. Confirm that environmentally-sensitive area fencing is appropriately</td>
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<td>implemented, if such fencing is necessary to protect special-status species.</td>
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<td>4. If avoidance is not feasible, consult with CDFW and/or USFWS to determine</td>
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<td>feasibility of special-status plant species transplantation. If feasible, retain</td>
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<td>qualified botanist to prepare Rare Plant Plan.</td>
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<td>5. If necessary (i.e., avoidance is not feasible),</td>
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<td>would occur for 5 years after planting.</td>
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<td>Rare Plant Plan will include specific, measurable triggers for adaptive management actions that will be necessary to ensure survival.</td>
<td>confirm Rare Plant Plan is appropriately prepared by a qualified individual, and appropriately implemented (including 5-year monitoring requirements).</td>
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<td>▪ The Rare Plant Plan will specify annual monitoring of the mitigation site for at least five years after planting, and will assess factors such as population size, recruitment, and individual plant health and vigor. Monitoring will also assess whether the mitigation requires adaptive management actions, such as collection and sowing of additional seed, tillage/disturbance within existing populations to induce establishment, installation of container plants, and control of exotic invasive vegetation (such as yellow star thistle) to ensure successful plant establishment and survival. The site will be evaluated at the end of the 5-year monitoring period to determine whether the mitigation has met the success criteria identified in the Rare Plant Plan. If success criteria are not met at that time, then mitigation activities and monitoring will continue until success criteria are met.</td>
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<td>▪ As part of the Rare Plant Plan, the City, in conjunction with a qualified restoration ecologist and/or botanist and the consulting agency, if any, will identify a suitable on- or off-site location for mitigation, and appropriate methods for seed collection, propagation, relocation, maintenance, and monitoring. Mitigation sites will be located within the range of the affected plant and contain</td>
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<td>suitable habitat sites. For annual plant species, the seed crop from the individuals to be lost will be collected and then sown on appropriate habitat located on the mitigation site. The individuals will not be removed until seeds have been collected. For perennial plant species, both the seed and the plants themselves will be salvaged and relocated to the mitigation site. The individuals will not be removed until seeds have been collected. Seed from the populations that will be affected may be collected and propagated at a native plant nursery prior to planting in order to increase the potential for establishment and survival.</td>
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<td>BIO-3</td>
<td>Avoid Impacts on Vernal Pool Branchiopods, Western Spadefoot, and Their Habitat. Prior to implementation of proposed projects in areas that could contain habitat for vernal pool branchiopods, the City will retain a qualified biologist to conduct surveys to determine whether vernal pools or seasonal wetlands will be directly or indirectly affected by construction activities. If potential habitat for special-status invertebrate species is found, the City will avoid any habitats that may support special-status species by establishing a buffer zone for each resource. The sizes of buffer zones shall be determined in consultation with the USFWS.</td>
<td>1. N/A 2. If necessary, and if habitat is present on-site, implement buffer zone identified by qualified biologist and/or USFWS to protect habitat.</td>
<td>1. Retain a qualified biologist to conduct surveys for vernal pools and wetlands. 2. If surveys find potential special-status invertebrate species habitat, confirm that an adequate buffer zone is implemented to protect habitat.</td>
<td>1. Prior to construction. 2. Prior to initiation of construction activities.</td>
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| **BIO-4** Minimize and Compensate for Impacts on Branchiopods, Western Spadefoot, and Their Habitat. | 1. If impacts to habitat could not be avoided per Mitigation Measure BIO-3, restore surface topography and drainage to pre-construction conditions to minimize impacts.  
2. N/A  
3. If instructed by the City, implement off-site compensation plan for impacts to vernal pool branchiopods and/or western spadefoot. | 1. If impacts could not be avoided per Mitigation Measure BIO-3, ensure that surface topography and drainage is restored to pre-construction conditions following construction.  
2. Consult with USFWS and CDFW to determine appropriate ratios for off-site compensation for impacts to vernal pool branchiopods and/or western spadefoot. | 1. Following construction.  
2. As soon as it is determined that impacts to species/habitat cannot be avoided per Mitigation Measure BIO-3.  
3. Following consultation with USFWS/CDFW and development of compensation approach. | |
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<td>BIO-5</td>
<td>Mitigation Measure BIO-5: Avoid Impacts on VELB Habitat. The City and/or its contractor(s) shall avoid riparian habitat and/or elderberry shrubs whenever possible. If an individual CIP is not within a riparian area, is located on an existing site or other developed area, or within the public right of way, any impacts to the VELB would not be expected to be substantial and therefore would not require mitigation. For proposed improvements that may potentially impact VELB habitat, following USFWS guidance, the Program sites and a 165-foot-wide buffer surrounding such sites will be surveyed and mapped by a qualified biologist for the presence of elderberry shrubs. If elderberry shrubs are present, to the extent feasible, the Program shall adhere to avoidance measures outlined in USFWS’ Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle (Desmocerus californicus dimorphus) (USFWS 2017g). This shall include the following avoidance measures:</td>
<td>1. Incorporate requirement to avoid riparian habitat and/or elderberry shrubs into plans and specifications. 2. Make any necessary accommodations to allow biologist to conduct survey for elderberry shrubs/VELB habitat. 3. Avoid riparian habitat and/or elderberry shrubs whenever possible. If 1. Confirm that requirement to avoid riparian habitat and/or elderberry shrubs is included in project plans and specifications. 2. Retain qualified biologist to conduct surveys for the presence of elderberry shrubs that may be required. 3. If elderberry shrubs are</td>
<td>3. Either implement compensation plan, instruct the contractor to do so, or hire a third party to perform the needed work. 1. During preparation of plans and specifications. 2. Prior to construction. 3. Prior to, and during, construction. 4. As soon as it is evident that elderberry shrubs cannot be avoided during construction.</td>
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<td>If elderberry shrubs are located in non-riparian area, a qualified biologist shall evaluate the shrubs for exit holes. If exit holes are present, the shrubs are considered suitable habitat and likely occupied. If exit holes are not present, the biologist shall evaluate whether known VELB occurrences are located within 2,625 feet of the CIP, whether the project site is near suitable riparian habitat, and any surrounding barriers to VELB dispersal.</td>
<td>necessary, and VELB habitat is present on-site, implement avoidance measures described in mitigation measure.</td>
<td>present, ensure that avoidance measures are implemented.</td>
<td>4. If elderberry shrubs cannot be avoided, implement Mitigation Measure BIO-6.</td>
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<td>The City shall fence and flag all areas to be avoided during construction activities including all established elderberry shrubs within 165 feet of ground disturbing construction that shall not be impacted by construction activities.</td>
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<td>No open-cut construction or other ground disturbance shall occur within 20 feet of the dripline of elderberry plants containing stems measuring 1.0 inch or greater in diameter at ground level.</td>
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<td>A qualified biologist shall provide training for all contractors, work crews, and any onsite personnel on the status of the VELB, its host plant and habitat, the need to avoid damaging the elderberry shrubs, and the possible penalties for noncompliance.</td>
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<td>A qualified biologist shall monitor the work area at project-appropriate intervals to assure that all avoidance and minimization measures are implemented. The amount and duration of</td>
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<td>Monitoring shall depend on the project specifics and should be discussed with USFWS.</td>
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<td>▪ As much as feasible, all activities that could occur within 165 feet of an elderberry shrub, shall be conducted outside of the flight season of the VELB (March-July).</td>
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<td>▪ If required, trimming of elderberry shrubs shall occur between November and February and shall avoid the removal of any branches or stems that are ≥ 1 inch in diameter.</td>
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<td>▪ Herbicides shall not be used within the drip-line of the shrub. Insecticides shall not be used within 98 feet of an elderberry shrub. All chemicals shall be applied using a backpack sprayer or similar direct application method.</td>
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<td>▪ Mechanical weed removal within the drip-line of the shrub shall be limited to the season when VELB adults are not active (August-February) and shall avoid damaging the elderberry.</td>
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<td>▪ Erosion control shall be implemented and the affected area shall be re-vegetated with appropriate native plants.</td>
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<td>If elderberry shrubs cannot be avoided, implement Mitigation Measure BIO-6.</td>
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<td><strong>BIO-6</strong> Implement VELB Compensatory Mitigation, if Necessary.</td>
<td>1. Take all measures to preserve any elderberry shrub encountered that</td>
<td>1. Ensure that any elderberry shrub removed during</td>
<td>1. During or prior to construction, if elderberry</td>
<td>1.</td>
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<td>the project shall be transplanted to a USFWS-approved location per Mitigation Measure BIO-7. Impacts to VELB habitat shall be mitigated through purchase of compensatory mitigation credits from a USFWS-approved mitigation bank, or through on- or off-site mitigation. If on- or off-site mitigation is planned, a Compensatory Mitigation Proposal shall be developed and shall be subject to approval by USFWS. Mitigation ratios shall be based on impacts to VELB habitat, as well as impacts to individual shrubs. One credit (unit) = 1,800 square feet. For habitat, the total amount of permanent disturbance in square feet should be calculated, the appropriate ratio applied, and the total number divided by 1,800. Impacts to riparian habitat shall be mitigated at a 3:1 (acre(s) of credits: acre(s) of disturbance) ratio. For disturbance to elderberry shrubs in non-riparian habitat, a 1:1 ratio shall be used. Impacts to individual shrubs in riparian areas may be replaced by the purchase of 2 credits at a USFWS-approved bank for each shrub impacted regardless of the presence of exit holes. Impacts to individual shrubs in non-riparian areas shall be replaced through a purchase of 1 credit at a USFWS-approved bank for each shrub that shall be impacted if exit holes have been found in any shrub on or within 165 feet of the project area.</td>
<td>must be removed, such that the shrub may be transplanted per Mitigation Measure BIO-7. 2. If on-site mitigation is selected as the compensatory mitigation approach, implement any measures of the mitigation plan to which the contractor is delegated responsibility. 3. N/A</td>
<td>construction is preserved and transplanted per Mitigation Measure BIO-7, if feasible. 2. In coordination with USFWS, develop a compensatory mitigation approach following requirements set forth in mitigation measure. Either implement approach or delegate certain responsibilities to contractor. 3. Confirm that compensatory mitigation is satisfactorily provided.</td>
<td>shrubs are encountered. 2. Once it is determined that avoidance of elderberry shrubs is infeasible. Compensatory mitigation shall be provided after approach is confirmed by USFWS. 3. After implementation of compensatory mitigation plan/approach.</td>
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| The City shall implement the following measures. If an elderberry shrub cannot be avoided or if indirect effects shall result in the death of stems or the entire shrub, then in addition to Mitigation Measure BIO-6, the shrub shall be transplanted. Elderberry shrubs shall be transplanted as close as possible to their original location. Elderberry shrubs may be relocated adjacent to the project footprint if: 1) the planting location is suitable for elderberry growth and reproduction; and 2) the City is able to protect the shrub and ensure that the shrub becomes reestablished. If these criteria cannot be met, the shrub may be transplanted to an appropriate USFWS-approved mitigation site. Any elderberry shrub that is unlikely to survive transplanting because of poor condition or location, or a shrub that would be extremely difficult to move because of access problems, may not be appropriate for transplanting. The transplanting guidelines below shall be followed:  
  - A qualified biologist shall be on-site for the duration of transplanting activities to assure compliance with avoidance and minimization measures and other conservation measures.  
  - Exit-hole surveys shall be completed immediately before transplanting. The number of exit holes found, GPS location of the plant to be relocated, and the GPS location of where the plant is transplanted shall be reported to the Service and to the CNDDB. | 2. Under direction of the qualified biologist, transplant elderberry shrubs that cannot be avoided following the guidelines and requirements in the mitigation measure. | biologist to oversee transplantation activities, should such activities be necessary.  
2. Confirm that any elderberry shrubs that cannot be avoided are transplanted appropriately in accordance with the guidelines contained in the mitigation measure, and that exit-hole surveys are reported to CDFW and USFWS. | 2. After it is determined that elderberry shrubs cannot be avoided. |
### Mitigation Measure

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<td>Elderberry shrubs shall be transplanted when the shrubs are dormant (November through the first two weeks in February) and after they have lost their leaves.</td>
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<td>Transplanting shall follow the most current version of the ANSI A300 (Part 6) guidelines for transplanting (<a href="http://www.tcia.org/">www.tcia.org/</a>).</td>
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#### BIO-8 Conduct Preconstruction Surveys for and Minimize Impacts on Western Pond Turtle.

Preconstruction surveys for western pond turtles in suitable aquatic and upland habitat will be conducted by a qualified biologist 2 weeks before and 24 hours before the start of construction activities in streams, irrigation canals, and sloughs where suitable habitat exists. If a western pond turtle is located within the construction area, it will be relocated out of this area (with authorization from the CDFW), and exclusion fence will be installed to prevent the movement of turtles back into the construction area. Additionally, the following minimization measures will be implemented.

- The City or its contractors will minimize grading and construction activities along the banks of streams, irrigation canals, and sloughs and within 1,000 feet of these areas between October 15 and April 15 in order to reduce potential mortality to hibernating turtles.
- If a turtle becomes trapped during construction activities within the waterway, the turtle will be removed from the work area and placed

1. N/A
2. Do not initiate construction activities until preconstruction surveys have been conducted.
3. In coordination with the qualified biologist, relocate any discovered turtles outside of the construction area and erect exclusion fence to prevent re-entry. Implement minimization measures described in the mitigation measure, as

1. Retain a qualified biologist to conduct preconstruction surveys for western pond turtle in any suitable habitat.
2. Confirm that surveys are conducted in accordance with the mitigation measure prior to initiation of construction activities.
3. For any turtles discovered in the project 1. Prior to construction.
2. Prior to initiation of construction activities.
3. Prior to, or during, construction, if necessary.
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<td>downstream from the project site (with authorization from CDFW).</td>
<td>directed by the biologist.</td>
<td>area, ensure these individuals are relocated out of the area and that exclusion fence is installed to prevent re-entry. Also, confirm that minimization measures are implemented in the event that turtles or their habitat are present.</td>
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<td>▪ The construction area will be clearly defined, using orange barrier fencing, in order to minimize disturbance to riparian vegetation and western pond turtle habitat.</td>
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<td>▪ If nesting areas for western pond turtles are identified in the study area during preconstruction surveys, a buffer of 300 feet will be established between the nesting site and the construction area. Buffers will be indicated by temporary fencing if construction begins before the nesting period ends (egg laying to emergence of hatchlings normally extends from April to November).</td>
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<td><strong>BIO-9</strong> Conduct Pre-construction Surveys for Burrowing Owls and Implement No-Work Buffer Areas if Necessary.</td>
<td>1. N/A 2. Do not initiate construction activities until preconstruction surveys have been completed. Provide any needed support/assistance to the qualified biologist.</td>
<td>1. Retain a qualified biologist to conduct the preconstruction surveys for burrowing owls. 2. If burrowing owls are located on or within 250 feet</td>
<td>1. Prior to construction. 2. Prior to construction. 3. Prior to construction / after it is determined that occupied burrows cannot be avoided.</td>
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<td>Pre-construction surveys shall be conducted by a qualified biologist in all areas of suitable burrowing owl habitat within 250 feet of construction activity. Surveys shall be conducted within 14 days before the start of construction activity. If no work occurs for a period of 2 or more weeks during the nesting season (February 1 through August 31), surveys must be performed before work is resumed. If no burrowing owls or signs of burrowing owls are detected during the survey, no</td>
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<td>further mitigation shall be required. If breeding or resident burrowing owls are located on or within 250 feet of the proposed construction site, the following measures shall be implemented. If burrowing owls are detected, disturbance to burrows shall be avoided during the nesting season. Buffers shall be established around occupied burrows in accordance with guidance provided in the Staff Report on Burrowing Owl Mitigation (CDFG 2012), and at the discretion of a qualified wildlife biologist. Buffers around occupied burrows shall be a minimum of 656 feet (200 meters) during the breeding season, and 160 feet (100 meters) during the non-breeding season. Buffer distances shall be subject to the approval of CDFW. If occupied burrows cannot be avoided, passive owl relocation techniques may be implemented outside of the nesting season (February 1 through August 31). Owls would be excluded from burrows within 160 feet of construction by installing one-way doors in burrow entrances. The work area shall be monitored daily for 1 week to confirm owl departure from burrows prior to any ground-disturbing activities. Where possible burrows shall be excavated using hand tools and refilled to prevent reoccupation. Sections of flexible plastic pipe shall be inserted into the tunnels during excavation to maintain an escape route for any animals inside the burrow. If occupied burrows are relocated, the City shall enhance or create burrows in adjacent habitat at a 1:1 ratio (burrows destroyed to burrows enhanced or created) one biologist in establishing no-work buffers around occupied burrows, if such burrows are discovered. 3. Provide any needed support/assistance to the qualified biologist and the City in implementing a passive owl relocation plan, if such a plan is deemed necessary.</td>
<td>biologist in establishing no-work buffers around occupied burrows, if such burrows are discovered.</td>
<td>of the construction site, ensure that no-work buffers are established around occupied burrows in accordance with mitigation measure. Confirm appropriate buffer distances with CDFW. 3. If occupied burrows cannot be avoided, ensure that passive owl relocation techniques are appropriately implemented. Enhance or create burrows in adjacent habitat at a 1:1 ratio one week</td>
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### Mitigation Measure

Week prior to implementation of passive relocation techniques. If burrowing owl habitat enhancement or creation takes place, the City shall develop and implement a monitoring and management plan to assess the effectiveness of the mitigation. The plan shall be subject to the approval of CDFW.

### BIO-10

**Avoid, Minimize, or Compensate for Impacts on Raptors, including Special-status Species.**

The City shall implement the following measures.

- If ground and vegetation disturbing activities occur between February 1 and August 31, the City shall conduct a nesting raptor survey, with a focus on Swainson’s hawk and white-tailed kite, in accordance with Recommended Timing and Methodology for Swainson’s Hawk Nesting Survey’s in California’s Central Valley (Swainson’s Hawk Technical Advisory Committee 2000, or current CDFW guidance). Surveys shall cover a minimum of a 0.5-mile radius around potentially suitable nesting habitat for Swainson’s hawk and white-tailed kite. Agricultural lands within 500 feet of ground disturbing construction activities shall be surveyed for northern harrier nests.

- If nesting raptors are detected, the City shall establish a 500-foot no-disturbance buffer around the nest. No construction activities shall be initiated prior to implementation of passive relocation techniques.

#### Contractor Responsibility

1. N/A
2. Do not initiate ground- and vegetation-disturbing activities between February 1 and August 31 until a nesting raptor survey has been conducted. If nesting raptors are detected, provide any needed support to the qualified biologist and/or the City in establishing no-disturbance buffer around the nest.

#### City Responsibility

1. Retain a qualified biologist to conduct the nesting raptor survey.
2. If nesting raptors are detected, ensure that an appropriate 500-foot no-disturbance buffer is established around the nest.

#### Monitoring Schedule

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2. Prior to construction, if necessary.
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<td>within the buffer until fledglings are fully mobile and no longer reliant upon the nest or parental care for survival.</td>
<td>buffers around the nest(s). Do not conduct activities within the buffer(s) until directed by the biologist.</td>
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<td><strong>BIO-11 Compensate for Loss of Raptor Foraging Habitat.</strong> The City shall implement the following measures. To mitigate for the loss of potential Swainson’s Hawk foraging habitat, the City shall provide off-site habitat management lands, as described in the CDFW protocol for the mitigation of impacts on Swainson’s hawks in the Central Valley (CDFG 1994), or by purchasing credits at a CDFW-approved Swainson’s Hawk foraging habitat mitigation bank that covers the Proposed study area, such as the Dutchman Creek Conservation Bank. The City shall determine the final acreage of off-site management lands or mitigation bank credits to be provided based on the CDFW protocol (CDFG 1994). For the purposes of this mitigation measure, all program components are assumed to be within 1 mile of an active Swainson’s Hawk nest tree. Mitigation credits would follow the same ratio guidelines as off-site management lands. The City shall compensate for losses as follows:</td>
<td>1. N/A</td>
<td>1. Provide off-site compensation for losses of raptor foraging habitat through one of the methods described in the mitigation measure. Confirm that off-site mitigation is sufficient to compensate for impacts following the ratios outlined in the measure.</td>
<td>1. After the acreage of any permanent impacts to raptor foraging habitat is determined.</td>
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<td>management of the habitat, with the remaining 90% protected by a conservation easement acceptable to CDFW on agricultural lands or other suitable habitats that provide foraging habitat for Swainson’s Hawk; or</td>
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<td>▪ 0.5 acre of habitat management land for each acre of development authorized (0.5:1 ratio), all of which shall be met by fee title acquisition or a conservation easement acceptable to CDFW that allows for the active management of the habitat for prey production on the habitat management lands.</td>
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<td>The City shall provide for the long-term management of the habitat management lands by funding a management endowment (the interest on which shall be used for managing the habitat management lands). If mitigation credits are purchased, long term management would be the responsibility of the mitigation bank.</td>
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<td><strong>BIO-12</strong> Conduct Pre-construction Surveys for Nesting Birds and Implement No-Work Buffer Areas if Necessary. The City shall implement the following measures. If construction activities occur during the breeding season (February 15–August 31), a pre-construction survey shall be conducted by a qualified biologist in all areas of suitable nesting habitat within 500 feet of construction activity. Surveys shall be conducted within 14 days before the start of construction activity. If no work occurs for a period of 2 or more weeks during the nesting season, surveys must be performed before work is resumed. If</td>
<td>1. N/A 2. Do not initiate construction activities during the bird breeding season until surveys have been conducted. Provide any assistance or accommodation necessary to the</td>
<td>1. Retain a qualified biologist to conduct the preconstruction surveys for nesting birds. 2. Confirm that surveys are appropriately conducted within 14 days</td>
<td>1. Prior to construction. 2. Prior to construction. 3. Prior to and during construction.</td>
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</table>
the survey indicates that no active nests are found, no further mitigation shall be required. If active nests are identified, appropriate no-disturbance buffers around nests shall be established. No-disturbance buffers around special-status passerine nests shall be 500 feet. No disturbance buffers for non-listed birds protected under the MBTA and Fish and Game Code sections 3503 and 3513 will be established by a qualified biologist familiar with the life history and reproductive strategies of the nesting species. The buffer widths will be based on species’ sensitivity to disturbance (as documented in peer-reviewed literature), planned construction activities, and baseline level of human activity. The buffers will be clearly marked in the field with flagging or fencing. No work shall commence within the buffer until the young have fledged or the nest is deemed inactive.

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<tr>
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<th>City Responsibility</th>
<th>Monitoring Schedule</th>
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</thead>
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<tr>
<td>BIO-13 Avoid and Minimize Impacts on Federally Protected Wetlands. The City shall implement the following measures. To the extent feasible, proposed construction activities shall avoid federally protected wetlands. If complete avoidance of wetlands is not possible, a jurisdictional wetland delineation shall be conducted for the project site, which will be used during implementation of Mitigation Measure BIO-14. For all activities greater than one acre of disturbance, a SWPPP</td>
<td>biologist conducting the survey. 3. In the event that active nests are identified, provide any needed assistance to the qualified biologist in establishing the no-disturbance buffers. Do not conduct construction activities within the buffers until directed by the biologist.</td>
<td>of construction activity that would occur during the bird breeding season. 3. In the event that active nests are identified, ensure that no-disturbance buffers are established around nests in accordance with the measure.</td>
<td>1. Prior to construction. 2. During construction. 3. Following construction.</td>
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</table>
Mitigation Measure | Contractor Responsibility | City Responsibility | Monitoring Schedule | Completion Date and Initials
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shall be implemented to reduce the potential for sediment and contaminants to enter wetlands and waters. Mitigation Measure HYD/WQ-1 would also be implemented to minimize construction-related effects on wetlands and waters. After construction, surface topography and drainage shall be restored to pre-construction conditions. Where appropriate, revegetation shall be implemented with site-adapted native plant species. | topography and drainage to pre-construction conditions. Additionally, where appropriate, revegetate impacted wetland areas with site-adapted native plant species. | be used during implementation of Mitigation Measure BIO-14. |  |  |
### BIO-14 Obtain Regulatory Permits for Work Activities Taking Place in Wetlands and Waters of the United States and the State.
The City shall implement the following measures. Work within areas defined as waters of the U.S. and State that includes placement of fill will require a CWA Section 404 permit and Section 401 Water Quality Certification. All work proposed in jurisdictional waters of the U.S. shall be
1. Do not initiate work in areas defined as water of the U.S. and State until the City has obtained the appropriate
1. For work within areas defined as waters of the U.S. and State, obtain appropriate regulatory permits.
1. Prior to initiation of construction activities within waters.
2. At a time acceptable to
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<thead>
<tr>
<th>Mitigation Measure</th>
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</thead>
<tbody>
<tr>
<td>authorized under these permits, and the work shall comply with the general and</td>
<td>regulatory permits.</td>
<td>2. For areas where wetland impacts occur, provide compensatory mitigation by one of</td>
<td>the regulatory</td>
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<tr>
<td>regional conditions of the permits. In areas where disturbance to jurisdictional</td>
<td>2. N/A</td>
<td>the methods described in the mitigation measure.</td>
<td>agencies.</td>
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<td>waters or wetlands occurs, the City shall implement mitigation consistent with</td>
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<td>the terms of a CWA Nationwide Permit and/or the Final Rule on Compensatory</td>
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<td>Mitigation for Losses of Aquatic Resources (73 Fed. Reg. 19594). Compensatory</td>
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<td>mitigation may include creation, reestablishment, or enhancement of wetlands in</td>
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<td>the study area or at an off-site location. Compensatory mitigation may also</td>
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<td>include purchase of credits at an approved mitigation bank or contribution to an</td>
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<td>approved in-lieu fee program.</td>
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<td><strong>BIO-15</strong> Install Temporary Trench Plates over Open Trenches. The City</td>
<td>1. Incorporate requirement into project plans and specifications.</td>
<td>1. Confirm that requirement is included in plans and specifications.</td>
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<tr>
<td>shall implement the following measure. During open-cut construction of</td>
<td>2. Cover open trenches with trench plates at the end of each work day.</td>
<td>2. Confirm that contractor is covering trenches appropriately at the end of each work</td>
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<td>pipelines, the City shall install temporary trench plates over open trenches at</td>
<td></td>
<td>day.</td>
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<td>the end of each work day.</td>
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<tr>
<td><strong>Cultural Resources</strong></td>
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<tr>
<td><strong>CR-1</strong> Conduct Cultural Resources Awareness Training for Construction Workers</td>
<td>1. Coordinate with the City to the project.</td>
<td>1. Arrange for workers to the project.</td>
<td>1. Prior to</td>
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<tr>
<td>Prior to Beginning Work.</td>
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<td>construction</td>
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### Mitigation Measure

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<tbody>
<tr>
<td>The City shall implement the following measures. Before initiation of ground-disturbing activities, the City or its designee shall arrange for construction crews to receive information about the kinds of archaeological materials that could be present and the protocols to be followed should any such materials be uncovered during construction. The training shall include information about the laws pertaining to treatment of cultural resources and emphasize the requirement for confidentiality. The informational materials shall be prepared by a qualified archaeologist, and a qualified archaeologist shall conduct the initial training at the beginning of each project. Subsequent trainings should occur as new personnel work on each project; it is incumbent on the City to ensure that the contractor conveys this information to new employees. This could occur during daily safety meetings by the construction supervisor, or more formal training by a qualified archaeologist.</td>
<td>provide workers information about potential buried cultural resources.</td>
<td>receive information about potential buried cultural resources</td>
<td>2. During construction, if necessary</td>
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</tbody>
</table>

### Hydrology & Water Quality

<p>| HYD/WQ-1 Prepare and Implement a Frac-Out Contingency Plan for Trenchless Pipeline Installation Methods. | 1. N/A 2. Implement all preventative measures identified in mitigation measure. Make accommodations for geotechnical engineer, | 1. Incorporate requirements into plans and specifications. 2. Ensure that all preventative measures are implemented. Retain geotechnical | 1. During preparation of plans and specifications. 2. During construction, if necessary |  |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>▪ Require a geotechnical engineer or qualified geologist to make recommendations regarding the suitability of the formations to be bored to minimize the potential for frac-out conditions.</td>
<td>archaeologist, and biologist to survey area and make recommendations. Coordinate worker training for field personnel.</td>
<td>engineer and qualified archaeologist and biologist to make recommendations to minimize impacts. Arrange for field personnel to receive training.</td>
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<tr>
<td>▪ Require that a qualified archaeologist and biologist survey for and recommend protection measures for sensitive cultural and biological resources at the location of the entry and exit points and along the boring route.</td>
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<td>3. For any frac-outs that occur, notify the appropriate agencies and implement the appropriate measures, as specified in the measure.</td>
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<td>▪ Include worker training measures to ensure that all field personnel understand their responsibility for timely reporting of frac-outs to their supervisors. Supervisors must then report frac-outs to CDFW as described in the last bullet below.</td>
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<td>3. For any frac-outs that occur, confirm that proper protocols were followed to contain the frac-out and minimize impacts.</td>
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<td>▪ Maintain necessary response equipment on-site or at a readily accessible location and in good working order.</td>
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<td>▪ Include contingency measures to stop work, and effectively isolate and clean up released drilling fluid in the event of a frac-out. Contingency measures should be described for a potential frac-out in a terrestrial and aquatic environment. Example contingency measures include the following (CPUC 2003):</td>
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<td>▪ For a terrestrial frac-out:</td>
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<td>– Isolate the area with hay bales, sand bags, or silt fencing to surround and contain the drilling mud.</td>
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<td>– Based on consultation with CDFW (see below), either:</td>
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<td>▪ Use a mobile vacuum truck to pump the drilling mud from the contained area and recycle it to the return pit; or</td>
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<td>▪ Leave the drilling mud in place to avoid potential damage from vehicles entering the area.</td>
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<td>– Once excess drilling mud is removed, seed and/or replant the area using species similar to those in the adjacent area, or allow the area to re-grow from existing vegetation.</td>
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<td>▪ For an aquatic frac-out:</td>
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<td>– Monitor frac-out for 4 hours to determine if the drilling mud congeals (bentonite will usually harden, effectively sealing the frac-out location).</td>
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<td>– Based on consultation with CDFW (see below), either:</td>
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<td>▪ If the drilling mud congeals, take no other action that would potentially suspend sediments in the water column.</td>
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<td>▪ If drilling mud does not congeal, erect isolation/containment environment (underwater boom and curtain).</td>
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</table>
|    ▪ If the fracture becomes excessively large, call in a spill response team to contain and
### Mitigation Measure

- Clean up excess drilling mud in the water. Keep phone numbers of spill response teams on-site.
  - If the spill affects an area that is vegetated, seed and/or replant the area using species similar to those in the adjacent area, or allow the area to re-grow from existing vegetation.
  - Notify and consult with CDFW in the event of a frac-out. Restore vegetation damaged by drilling fluid to pre-construction conditions.

### Noise

**NOI-1**

**Employ Noise-Reducing Construction and Maintenance Practices.**

The following measures will be implemented by the City or its contractor to reduce adverse effects from construction and maintenance noise in locations where noise-sensitive receptors could be adversely affected:

- Locating stationary equipment as far as practical from noise-sensitive land uses,
- Using electrified or otherwise quieter equipment when practical,
- Using sound-control devices on equipment that are more effective than devices originally provided on the equipment,
- Using noise-reducing enclosures around noise-generating equipment, and

<table>
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</thead>
</table>
| 1. Include noise reduction measures in project plans and specifications.  
2. Implement and document noise reduction measures. In coordination with the City, develop haul routes that avoid sensitive receptors to the extent feasible. | 1. Confirm that noise reduction measures are included in project plans and specifications.  
2. Confirm that noise reduction measures are implemented properly. Work with Contractor to identify haul routes that avoid sensitive receptors. | 1. During preparation of plans and specifications.  
2. During construction. | |
### Mitigation Measure

- installing temporary barriers between noise sources and noise sensitive land uses, or taking advantage of existing barrier features (terrain and structures) to block sound transmission. When determining haul truck routes, consideration will be given to altering haul routes to avoid sensitive receptors when feasible.

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<tr>
<th>NOI-2 Limit Nighttime Construction Noise.</th>
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<th>Completion Date and Initials</th>
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<tbody>
<tr>
<td>The City and its contractor shall ensure that no construction activities are conducted in close proximity to a residence outside the hours of 7:00 a.m.–9:00 p.m. on weekdays and 9:00 a.m.–9:00 p.m. on Saturdays, Sundays, and state or federal holidays or that the project has received a variance or special permit following procedures outlined in the applicable noise ordinance to operate outside of these hours.</td>
<td>1. Include measure in project plans and specifications. 2. Do not conduct construction activities in close proximity to a residence outside of the hours specified in the measure. Document compliance with this requirement.</td>
<td>1. Confirm that measure is included in project plans and specifications. 2. Confirm that Contractor follows requirements specified in the mitigation measure.</td>
<td>1. During development of plans and specifications. 2. During construction.</td>
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<tr>
<th>NOI-3 Employ Noise-Reducing Methods During Operations.</th>
<th>Contractor Responsibility</th>
<th>City Responsibility</th>
<th>Monitoring Schedule</th>
<th>Completion Date and Initials</th>
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<tbody>
<tr>
<td>The City will implement noise-reducing methods so that noise from well operations and emergency generators does not exceed County noise-level standards at adjacent residences. Example measures may include but are not limited to:</td>
<td>1. N/A 2. If necessary, and if directed by the City, implement noise-reducing measures at new facilities.</td>
<td>1. For new or modified facilities, conduct site-specific noise analysis to determine if noise levels are acceptable.</td>
<td>1. Prior to or during the design phase. 2. Incorporate measures during design.</td>
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<td>▪ using sound attenuation enclosures designed to achieve noise reductions sufficient to comply with City and County standards for noise-generating elements of the operation, when no other feasible control method is available.</td>
<td>or modified facility sites.</td>
<td>County noise-level standards will be exceeded at adjacent residences during facility operations.</td>
<td>phase. Implement measures during construction.</td>
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<td>▪ locating stationary equipment as far as practical from noise-sensitive land uses,</td>
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<td>2. If standards will be exceeded, implement noise-reducing measures to reduce noise to below standards.</td>
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<td>▪ using electrified or otherwise quieter equipment when practical,</td>
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<td>▪ using sound-control devices on equipment that are more effective than devices originally provided on the equipment,</td>
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<td>▪ installing permanent barriers between noise sources and noise-sensitive land uses, or taking advantage of existing barrier features (terrain and structures) to block sound transmission, and</td>
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<td>▪ limiting operations and maintenance-related trucking to specific routes, times, and speeds that minimize adverse effects to sensitive land uses such as schools and residential areas.</td>
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**NOI-4 Implement Vibration Reduction Measures.**
The City of Modesto and/or its contractors shall implement the following vibration-reducing measures during construction activities which could generate substantial vibration to minimize impacts on nearby sensitive receptors:

1. Include measures in project plans and specifications.
2. Implement and document vibration-reducing measures.
3. Confirm that measures are included in project plans and specifications.
4. Confirm that measures are implemented.
5. During development of plans and specifications.
6. During construction.
<table>
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<tr>
<td>▪ Ensure proper tuning of vibration-causing equipment.</td>
<td>reducing measures.</td>
<td>implemented properly.</td>
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<td>▪ Use vibration damping devices to the extent feasible.</td>
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<td>▪ Limit use of vibratory equipment to the extent feasible and do not overlap use of vibratory equipment. Where possible, maintain a distance of 15+ feet from buildings.</td>
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<td>▪ Require contractor(s) to ensure that impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for construction be hydraulically or electrically powered wherever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used; this muffler can lower noise levels from the exhaust by up to about 10 dBA. External jackets on the tools themselves shall be used where feasible, and this could achieve a reduction of 5 dBA. Quieter procedures shall be used, such as drills rather than impact equipment, whenever feasible.</td>
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<td>▪ Use electric stationary equipment (e.g., generators) where feasible.</td>
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<td>▪ Implement noise and/or vibration shields, such as sound aprons or temporary enclosures with sound-absorbing material, on or around construction equipment, particularly if construction activities are conducted after 7:00 pm. For all construction</td>
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<td>activities occurring within 60 feet of residences at any time of day, install a temporary noise and vibration barrier between the project site and the nearest sensitive receptors. Following the completion of construction activities within that distance, the barrier will be removed.</td>
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