

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



Date



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 Ciudad 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.

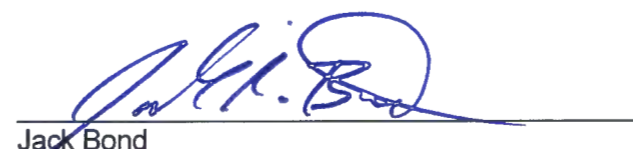
Junta Pública: Una Junta Publica sobre la cobertura se va a llevar acabo para recibir comentarios de las agencias y el público sobre la cobertura del informe de impacto ambiental por el Programa Propuesto.

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

Master Notification list for WMP NOP

Organization	Name	Title	Street Address	City	State	Zip Code	Phone Number	Email
Turlock Irrigation District	Casey Hashimoto	General Manager	P.O. Box 949	Turlock	CA	95381-0949	209-883-8222	
Modesto Irrigation District	Patrick Ryan	Civil Engineering Manager	1231 Eleventh St	Modesto	CA	95352		patrick.ryan@mid.org
City of Ceres	Michael Brinton	Public Works Deputy Director	2220 Hackett	Ceres	CA	95307		Michael.Brinton@ci.ceres.ca.us
City of Turlock	Garner Reynolds	Regulatory Affairs Manager	156 S. Broadway, Suite 270	Turlock	CA	95380		greynolds@turlock.ca.us
City of Waterford	(Currently vacant)	City Manager	312 E Street	Waterford	CA	95386		
Stanislaus LAFCO	Sarah Lytle-Pinhey	Executive Officer	1010 Tenth Street, 3rd Floor	Modesto	CA	95354		
StanCOG	Rosa De Leon Park	Executive Director	1111 I Street, Suite 308	Modesto	CA	95354		
Stanislaus County	Matt Machado	Stanislaus County Public Works Director	1716 Morgan Rd	Modesto	CA	95358		machadom@stancounty.com
Stanislaus County	Miguel Galvez	Senior Planner	1010 Tenth Street, 3rd Floor	Modesto	CA	95354		
Stanislaus County	Walter Ward	Manager, Water Resources Program	3800 Cornucopia Way, Suite C	Modesto	CA	95358		wward@envres.org
Stanislaus County Clerk's Office	Lee Lundrigan	County Clerk-Recorder	1021 "I" Street	Modesto	CA	95354		
Stanislaus County Library	Reference Desk		1500 "I" Street	Modesto	CA	95354		
Modesto Police Department	Galen Carroll	Chief of Police	600 10th Street	Modesto	CA	95354		
Modesto City/County Airport	Mark Germanowski	Airport Manager	617 Airport Way	Modesto	CA	95354		

Non-governmental organizations	Name	Title	Street Address	City	State	Zip Code	Phone Number	Email
The Nature Conservancy	Laura Jensen		555 Capitol Mall, Suite 1290	Sacramento	CA	95814		
Stanislaus County Farm Bureau	Wayne Zipser	Executive Manager	1201 L Street, PO Box 3070	Modesto	CA	95353-3070		
Audubon California	Meghan Hertel	Working Lands Director	400 Capitol Mall, Suite 1535	Sacramento	CA	95814		mhertel@audubon.org
Friends of the Tuolumne River	Allison Boucher		1900 NE 3rd Street, Ste 106, PMB 314	Bend	OR	97701		
Tuolumne River Trust	Patrick Koepele	Executive Director	829 Thirteenth Street	Modesto	CA	95354		

Regulatory Agencies	Name	Title	Street Address	City	State	Zip Code	Phone Number	Email
U.S. Fish and Wildlife Service	Jana Affonso	Deputy Division Chief, Sacramento Valley Branch	2800 Cottage Way, Room W-2605	Sacramento	CA	95825		
NOAA National Marine Fisheries	Maria Rea	Assistant Regional Administrator, Central Valley Office	650 Capitol Mall, Suite 5-100	Sacramento	CA	95814		
Central Valley Flood Protection Board			3310 El Camino Avenue, Room 151	Sacramento	CA	95821		
San Joaquin Valley Air Pollution Control District	Georgia Stewart	Planning Division	1990 East Gettysburg Avenue	Fresno	CA	93726-0244		georgia.stewart@valleyair.org
U.S. Army Corp of Engineers, Sacramento District	Kate Dadey	Chief, California South Branch	1325 J Street, Room 1350	Sacramento	CA	95814		

School Districts	Name	Title	Street Address	City	State	Zip Code	Phone Number	Email
Empire Union School District			116 N. McClure Rd	Modesto	CA	95357		
Hart Ransom School District	Matthew Shipley	Superintendent	3920 Shoemaker Ave	Modesto	CA	95358	209-523-9996	mshipley@hartransom.org
Paradise Elementary School	Heath Thomason	Superintendent/Principal	3361 California Ave	Modesto	CA	95358	(209) 524-0184	hthomason@paradiseesd.org
Salida Union School District		Superintendent	4801 Sisk Rd	Salida	CA	95358		kkent@salida.k12.ca.us
Sylvan Union School District	Debra Hendricks	Superintendent	605 Sylvan Ave	Modesto	CA	95355		dhendricks@sylvan.k12.ca.us
Stanislaus Union School District	Britta M. Skavdahl	Superintendent	2410 Janna Ave	Modesto	CA	95350		
Shiloh k-8 School			6633 Paradise Rd	Modesto	CA	95358		
Orville Wright School	Victoria Kyte (No longer working)	Principal	1602 Monterey Avenue	Modesto	CA	95354		
Modesto City Schools District	Pam Able	District Superintendent	426 Locust Street	Modesto	CA	95351		

Fire Districts	Name	Title	Street Address	City	State	Zip Code	Phone Number	Email
Burbank-Paradise Fire District			1313 Beverly Drive	Modesto	CA	95351		
City of Ceres Fire Department	Chief	Nicholes	2755 Third Street	Ceres	CA	95307		
Salida Fire Protection District			P.O. Box 1335	Salida	CA	95368		
Turlock City Fire Department	Robert Talloni	Chief	244 N. Broadway	Turlock	CA	95380-5454		
Turlock Rural Fire District			690 W. Canal Dr	Turlock	CA	95380		
Woodland Avenue Fire Protection District	Mike Passalaqua	District Chief	3300 Woodland Ave	Modesto	CA	95358		
Modesto Fire Department	Sean Slamon (No longer fire)	Fire Chief	600 11th Street	Modesto	CA	95354		

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**State Clearinghouse
Notice of Preparation Posting**

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Edmund G. Brown Jr.
Governor

STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit



Ken Alex
Director

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) 445-0613.

Sincerely,

Scott Morgan
Director, State Clearinghouse

Attachments
cc: Lead Agency

Print Form

Appendix C

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 2016082069

Project Title: Water Master PlanLead Agency: City of ModestoContact Person: Jack BondMailing Address: P.O. Box 642

Phone: _____

City: ModestoZip: 95353County: StanislausProject Location: County: StanislausCity/Nearest Community: ModestoCross Streets: VariousZip Code: variousLongitude/Latitude (degrees, minutes and seconds): various ° ' " N / ° ' " W Total Acres: VariousAssessor's Parcel No.: Various

Section: _____

Twp.: _____

Range: _____

Base: _____

Within 2 Miles: State Hwy #: 108, 132, 99Waterways: Tuolumne River, Stanislaus River, Dry CreekAirports: Modesto City-County AirportRailways: Southern PacificSchools: various**Document Type:**CEQA: ☒ NOP☐ Early Cons☐ Neg Dec☐ Mit Neg Dec☐ Draft EIR☐ Supplement/Subsequent EIR

(Prior SCH No.) _____

Other: _____

NEPA: _____

☐ NOI☐ Research☐ Draft EIS☐ FONSI

Other: _____

☐ Joint Document☐ Final Document☐ Other: _____**Local Action Type:**☐ General Plan Update☐ General Plan Amendment☐ General Plan Element☐ Community Plan☐ Specific Plan☐ Master Plan☐ Planned Unit Development☐ Site Plan☐ Rezoning☐ Prezone☐ Use Permit☐ Land Division (Subdivision, etc.)☐ Annexation☐ Redevelopment☐ Coastal Permit☒ Other: Water System**Development Type:**☐ Residential: Units _____ Acres _____☐ Office: Sq.ft. _____ Acres _____☐ Commercial: Sq.ft. _____ Acres _____☐ Industrial: Sq.ft. _____ Acres _____☐ Educational: _____☐ Recreational: _____☒ Water Facilities: Type water infrastructure MGD _____

Employees _____

Employees _____

Employees _____

Employees _____

Transportation: Type _____

Mining: Mineral _____

Power: Type _____ MW

Waste Treatment: Type _____ MGD

Hazardous Waste: Type _____

Other: _____

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☒ Forest Land/Fire Hazard☒ 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

Document Details Report
State Clearinghouse Data Base

Document Details Report
State Clearinghouse Data Base

Date Received 08/26/2016

Start of Review 08/26/2016

End of Review 09/26/2016

Distribution List

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Parks & Recreation
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ilifornia Department of
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ve Goldbeck

Dept. of Water
Resources
Resources Agency
Nadell Gayou

Fish and Game

Depart. of Fish & Wildlife
Scott Flint
Environmental Services
Division

Fish & Wildlife Region 1
Curt Babcock

☐ Fish & Wildlife Region 1E
Laurie Harnsberger

☐ Fish & Wildlife Region 2
Jeff Drongesen

☐ Fish & Wildlife Region 3
Craig Weightman

☒ Fish & Wildlife Region 4
Julie Vance

☐ Fish & Wildlife Region 5
Leslie Newton-Reed
Habitat Conservation
Program

☐ Fish & Wildlife Region 6
Tiffany Ellis
Habitat Conservation
Program

☐ Fish & Wildlife Region 6 I/M
Heidi Calvert
Inyo/Mono, Habitat
Conservation Program

☐ Dept. of Fish & Wildlife M
William Paznokas
Marine Region

Other Departments

☐ Food & Agriculture
Sandra Schubert
Dept. of Food and
Agriculture

☐ Depart. of General
Services
Public School Construction

☐ Dept. of General Services
Cathy Buck/George Carollo
Environmental Services
Section

☐ Delta Stewardship
Council
Kevan Samsam

☐ Housing & Comm. Dev.
CEQA Coordinator
Housing Policy Division

Independent Commissions, Boards

☐ Delta Protection Commission
Erik Vink

County: Stanislaus AW

☐ OES (Office of Emergency
Services)
Monique Wilber

☒ Native American Heritage
Comm.
Debbie Treadway

☒ Public Utilities
Commission
Supervisor

☐ Santa Monica Bay
Restoration
Guangyu Wang

☐ State Lands Commission
Jennifer Deleong

☐ Tahoe Regional Planning
Agency (TRPA)
Cherry Jacques

Cal State Transportation Agency CalSTA

☒ Caltrans - Division of
Aeronautics
Philip Crimmins

☐ Caltrans - Planning
HQ LD-IGR
Terri Pencovic

☒ California Highway Patrol
Suzann Ikeuchi
Office of Special Projects

Dept. of Transportation

☐ Caltrans, District 1
Rex Jackman

☐ Caltrans, District 2
Marcelino Gonzalez

☐ Caltrans, District 3
Eric Federicks - South
Susan Zanchi - North

☐ Caltrans, District 4
Patricia Maurice

☐ Caltrans, District 5
Larry Newland

☐ Caltrans, District 6
Michael Navarro

☐ Caltrans, District 7
Dianna Watson

☐ Caltrans, District 8
Mark Roberts

☐ Caltrans, District 9
Gayle Rosander

☒ Caltrans, District 10
Tom Dumas

☐ Caltrans, District 11
Jacob Armstrong

☐ Caltrans, District 12
Maureen El Harake

Cal EPA

Air Resources Board

☐ Airport & Freight
Cathi Slaminski

☐ Transportation Projects
Nesamani Kalandiyur

☐ Industrial/Energy Projects
Mike Tollstrup

☒ 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
Div. Drinking Water # 10

☐ 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 5S
Central Valley Region (5)

☐ RWQCB 5F
Central Valley Region (5)
Fresno Branch Office

☐ RWQCB 5R
Central Valley Region (5)
Redding Branch Office

☐ RWQCB 6
Lahontan Region (6)

☐ RWQCB 6V
Lahontan Region (6)
Victorville Branch Office

☐ RWQCB 7
Colorado River Basin Region (7)

☐ RWQCB 8
Santa Ana Region (8)

☐ RWQCB 9
San Diego Region (9)

☐ Other _____

☐ _____
Conservancy



NOTICE OF PREPARATION

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

FILED
2016 AUG 26 AM 8:54
STANISLAUS CO. CLERK-RECORDER
Jennifer Mercado

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>.

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

Location: City Hall
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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



Date



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

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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

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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

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 | ▪ Greenhouse Gas Emissions |
| ▪ Agricultural and Forestry Resources | ▪ Hazards and Hazardous Materials |
| ▪ Air Quality | ▪ Hydrology and Geomorphology |
| ▪ Biological Resources | ▪ Land Use and Planning |
| ▪ Cultural Resources | ▪ Noise and Vibration |
| ▪ Geology and Soils | ▪ Recreation |

- Transportation/Traffic
- Tribal Cultural Resources
- Utilities and Service Systems
- Water Quality
- Cumulative Impacts
- Irreversible Impacts

Responses received to this NOP may modify or add to the preliminary assessment of potential issues addressed in the EIR.

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>.

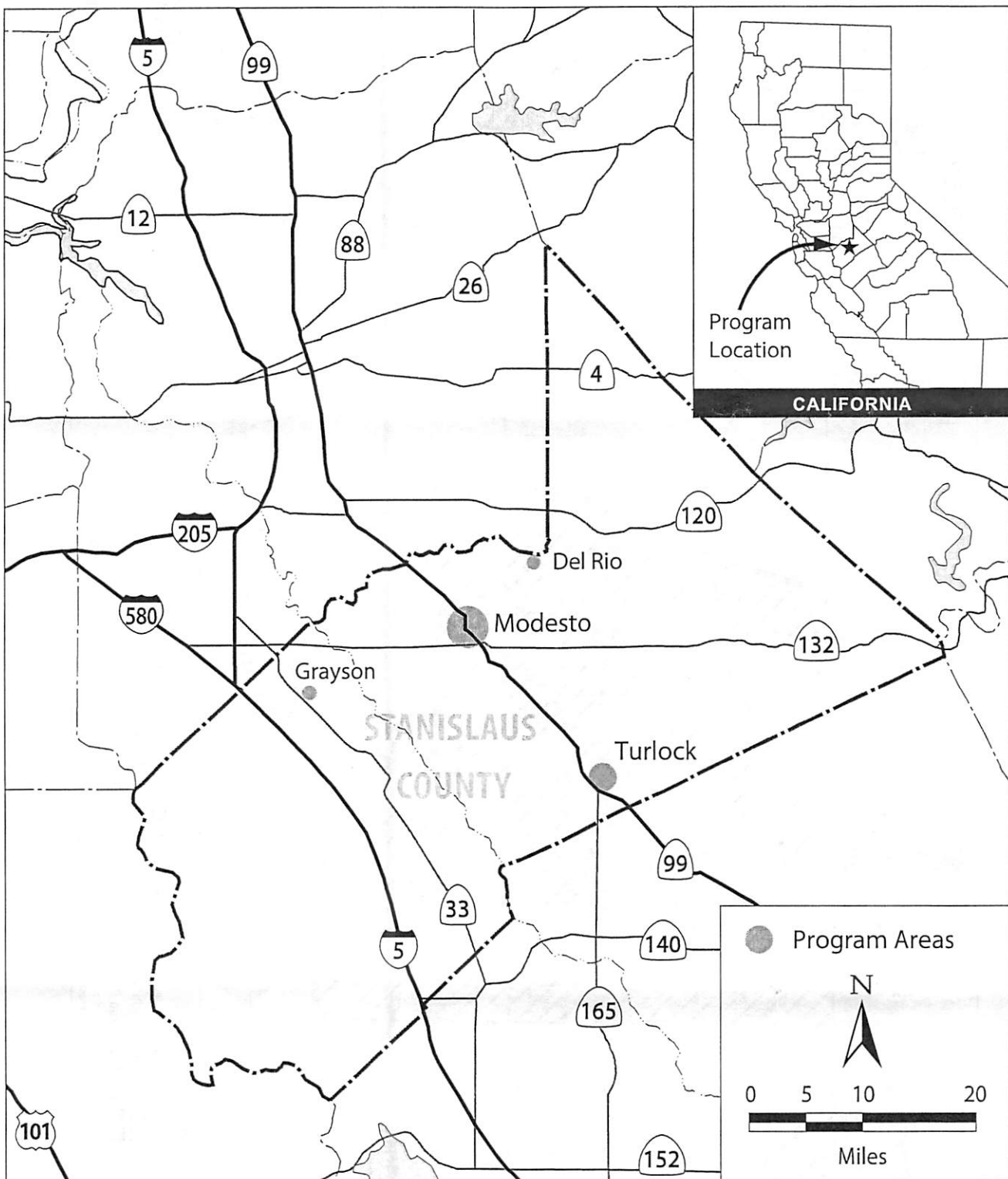
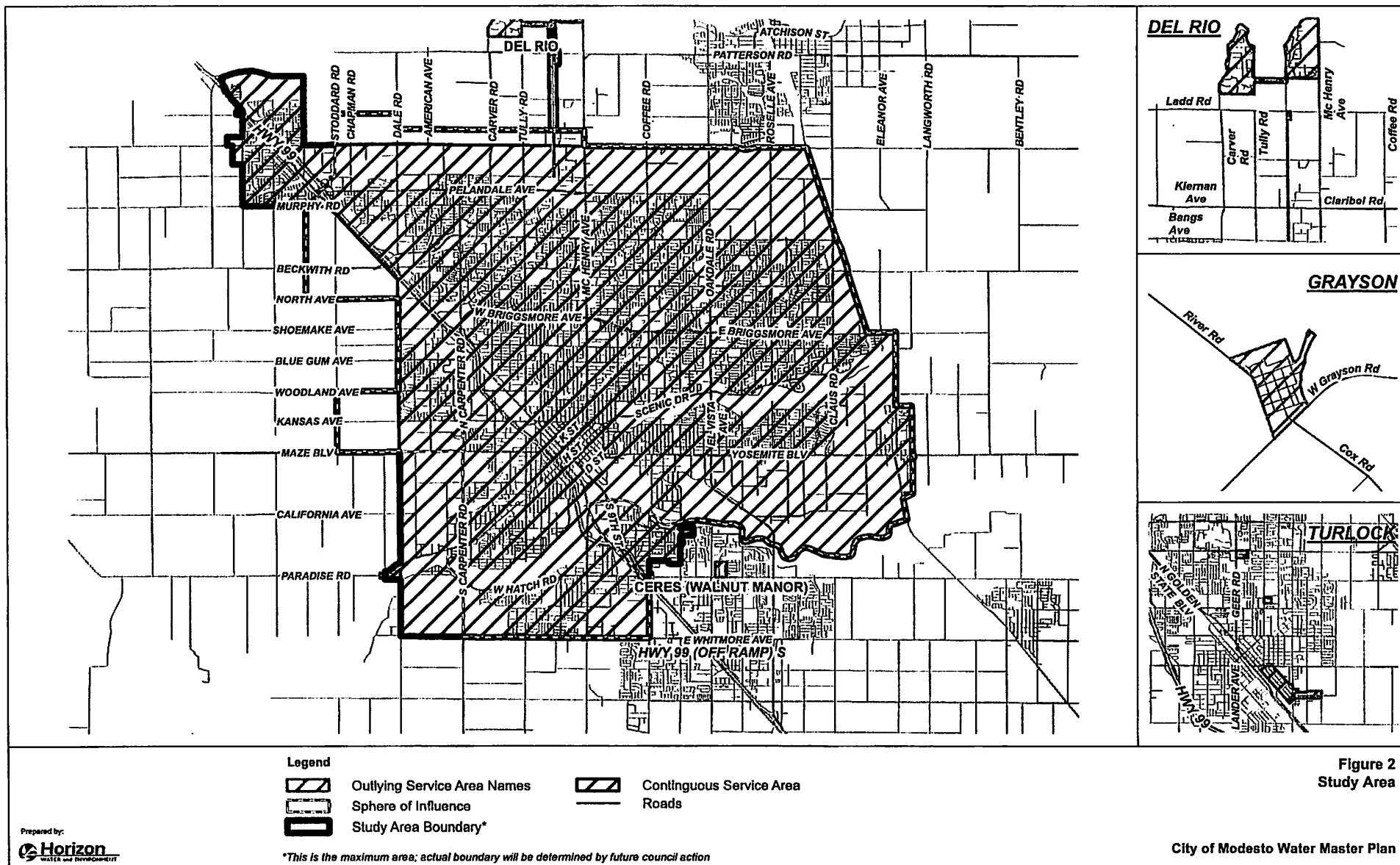


Figure 1
Project Location

Prepared by:



City of Modesto Water Master Plan Update



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

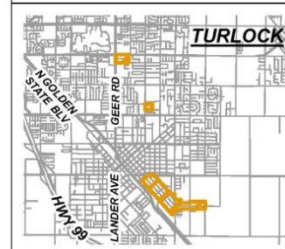
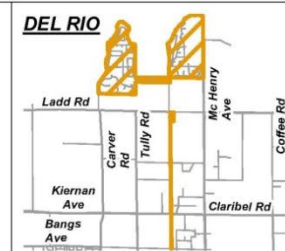
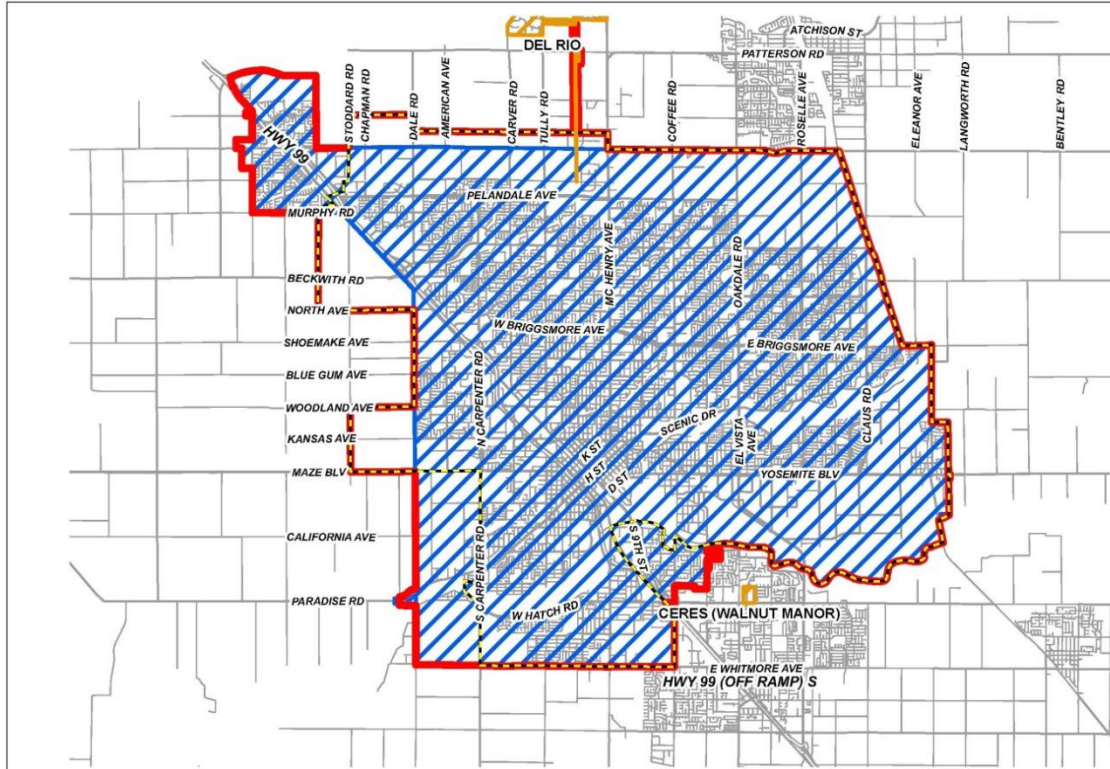
If special assistance is required to participate in the public scoping meeting, please contact Michael Stevenson (Michael@horizonh2o.com, 510-986-1852). Auxiliary aides and services are available to individuals with disabilities upon request.

Public Meeting Materials

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City of Modesto Water Master Plan

CEQA Scoping Meeting – September 6, 2016



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

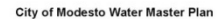
Meeting Purpose

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 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.

Program Elements

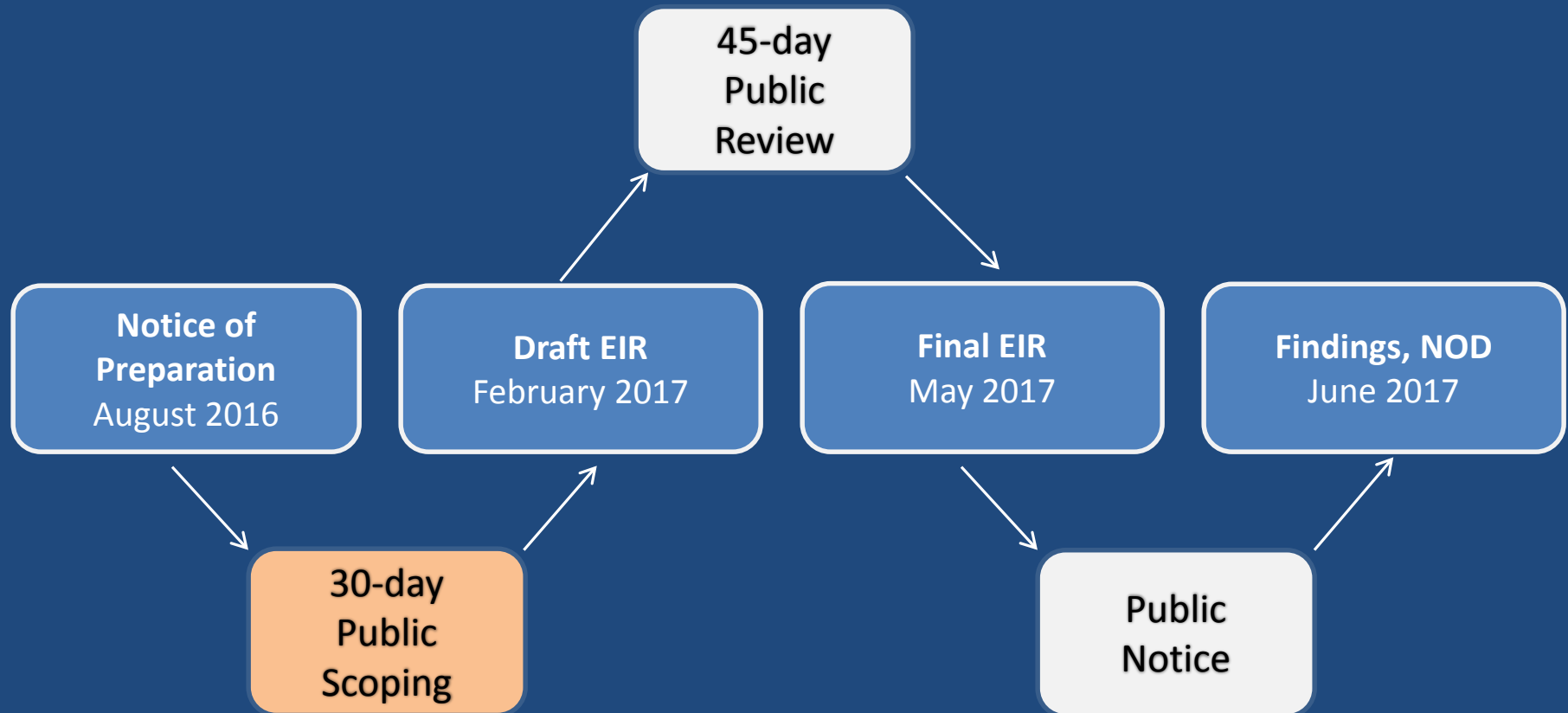
Program Elements	Improvements
Storage Tanks and Pump Stations	Del Rio/South Modesto tanks, and other new tanks
	Install new back-up generators
	Replace deficient water pumps
	Improve existing tanks (maintenance)
Groundwater Wells	Install wellhead treatment
	Construct new wells
Pipelines	Replace/upgrade deficient water mains, extend water mains to new areas, new transmission pipes
Misc. Water System Improvements and Programs	Install automated water meters and upgrade existing meters
	Water System Evaluation and water quality studies, UWMP updates (every 5 years), GW Management Program, water system security, SCADA upgrades
	New corporation yard (store materials for water projects)

CEQA Overview

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



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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CHIEF EXECUTIVE OFFICE

Stan Risen
Chief Executive Officer

Patricia Hill Thomas
Chief Operations Officer/
Assistant Executive Officer

Keith D. Boggs
Assistant Executive Officer

Jody Hayes
Assistant Executive Officer

1010 10th Street, Suite 6800, Modesto, CA 95354
Post Office Box 3404, Modesto, CA 95353-3404

Phone: 209.525.6333 Fax 209.544.6226

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.

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

September 30, 2016

Page 2

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

PC:ss

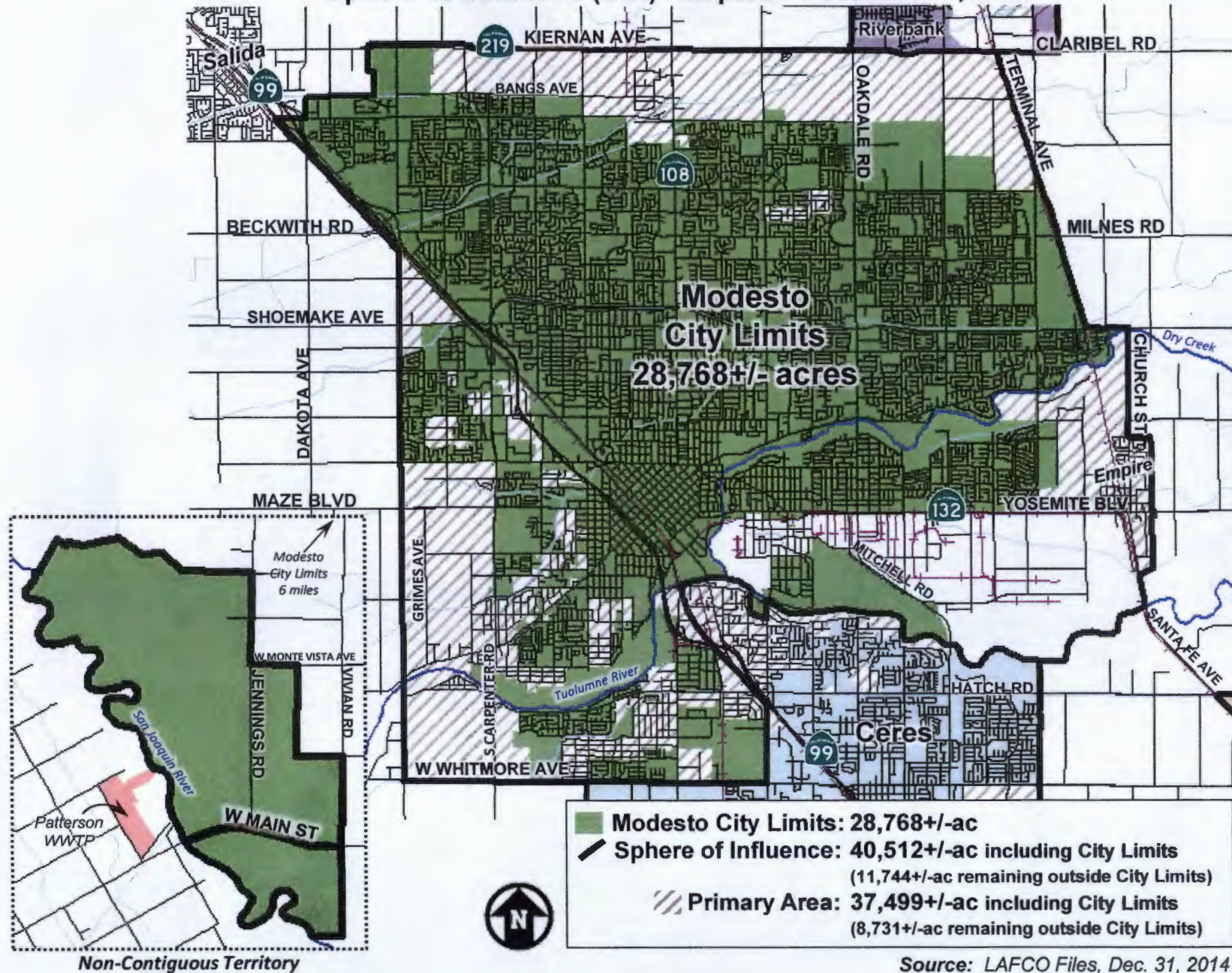
cc: ERC Members
Terry Withrow, County Board of Supervisors – D3
Stan Risen, County Chief Executive Officer
Keith D Boggs, Assistant Executive Officer
Matt Machado, County Public Works Director
Angela Freitas, County Planning and Community Development Director

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





LEGEND

Description	Description
Business Park	Public Uses
High Visibility Business Park	Private School
Commercial	Parks & Open Spaces
Planned Industrial	LDR
PI Reserve	MDR
Existing Salida Community	VHDR

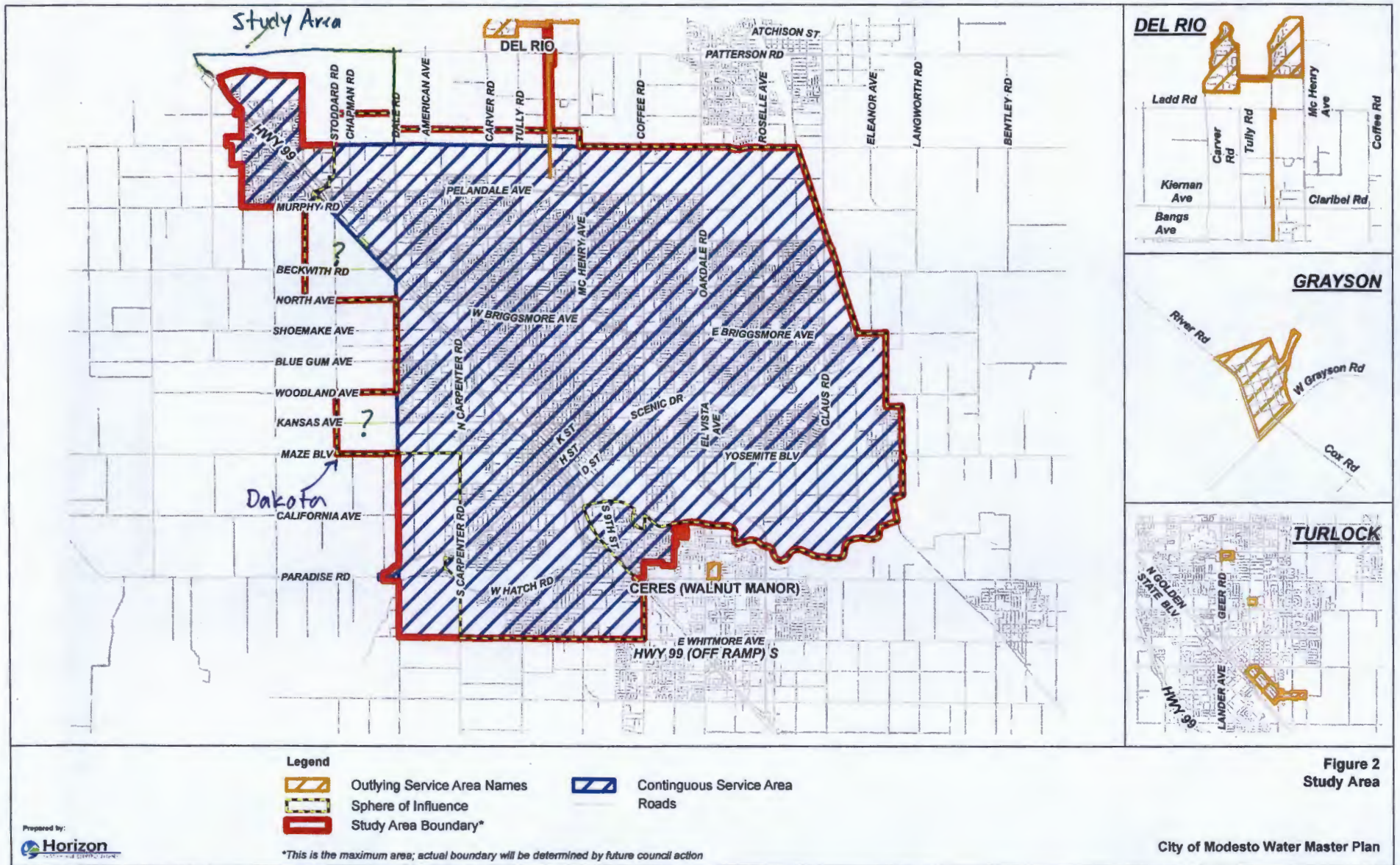
SALIDA COMMUNITY PLAN

SALIDA, CA

ILLUSTRATION 1

I-201

PC - 219



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Appendix B

Biological Resources Technical Information

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CNDDDB Query Results

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Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (Manteca (3712172) OR Avena (3712171) OR Escalon (3712078) OR Ripon (3712162) OR Salida (3712161) OR Riverbank (3712068) OR Westley (3712152) OR Brush Lake (3712151) OR Ceres (3712058) OR Oakdale (3712077) OR Waterford (3712067) OR Denair (3712057) OR Turlock (3712047))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Candidate Endangered	G2G3	S1S2	SSC
<i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
<i>Anniella pulchra</i> northern California legless lizard	ARACC01020	None	None	G3	S3	SSC
<i>Ardea herodias</i> great blue heron	ABNGA04010	None	None	G5	S4	
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Atriplex cordulata</i> var. <i>cordulata</i> heartscale	PDCHE040B0	None	None	G3T2	S2	1B.2
<i>Atriplex minuscula</i> lesser saltscale	PDCHE042M0	None	None	G2	S2	1B.1
<i>Atriplex subtilis</i> subtle orache	PDCHE042T0	None	None	G1	S1	1B.2
<i>Blepharizonia plumosa</i> big tarplant	PDAST1C011	None	None	G2	S2	1B.1
<i>Bombus caliginosus</i> obscure bumble bee	IIHYM24380	None	None	G4?	S1S2	
<i>Bombus crotchii</i> Crotch bumble bee	IIHYM24480	None	None	G3G4	S1S2	
<i>Bombus occidentalis</i> western bumble bee	IIHYM24250	None	None	G2G3	S1	
<i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered	None	G2	S2	
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
<i>Branta hutchinsii leucopareia</i> cackling (=Aleutian Canada) goose	ABNJB05035	Delisted	None	G5T3	S3	
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<i>California macrophylla</i> round-leaved filaree	PDGER01070	None	None	G3?	S3?	1B.2
<i>Caulanthus lemmonii</i> Lemmon's jewelflower	PDBRA0M0E0	None	None	G3	S3	1B.2



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Clarkia rostrata</i> beaked clarkia	PDONA050Y0	None	None	G2G3	S2S3	1B.3
<i>Coastal and Valley Freshwater Marsh</i> Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
<i>Corynorhinus townsendii</i> Townsend's big-eared bat	AMACC08010	None	None	G3G4	S2	SSC
<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S2	
<i>Dipodomys heermanni dixonii</i> Merced kangaroo rat	AMAFD03062	None	None	G3G4T2T3	S2S3	
<i>Egretta thula</i> snowy egret	ABNGA06030	None	None	G5	S4	
<i>Elderberry Savanna</i> Elderberry Savanna	CTT63440CA	None	None	G2	S2.1	
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<i>Eryngium racemosum</i> Delta button-celery	PDAP10Z0S0	None	Endangered	G1	S1	1B.1
<i>Eschscholzia rhombipetala</i> diamond-petaled California poppy	PDPAP0A0D0	None	None	G1	S1	1B.1
<i>Eumops perotis californicus</i> western mastiff bat	AMACD02011	None	None	G5T4	S3S4	SSC
<i>Falco columbarius</i> merlin	ABNKD06030	None	None	G5	S3S4	WL
<i>Great Valley Cottonwood Riparian Forest</i> Great Valley Cottonwood Riparian Forest	CTT61410CA	None	None	G2	S2.1	
<i>Great Valley Mixed Riparian Forest</i> Great Valley Mixed Riparian Forest	CTT61420CA	None	None	G2	S2.2	
<i>Great Valley Valley Oak Riparian Forest</i> Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	G1	S1.1	
<i>Icteria virens</i> yellow-breasted chat	ABPBX24010	None	None	G5	S3	SSC
<i>Lasiurus blossevillei</i> western red bat	AMACC05060	None	None	G5	S3	SSC
<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G5	S4	
<i>Legenere limosa</i> legenere	PDCAM0C010	None	None	G2	S2	1B.1
<i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G4	S3S4	



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Linderiella occidentalis</i> California linderiella	ICBRA06010	None	None	G2G3	S2S3	
<i>Lytta moesta</i> moestan blister beetle	IICOL4C020	None	None	G2	S2	
<i>Melospiza melodia</i> song sparrow ("Modesto" population)	ABPBXA3010	None	None	G5	S3?	SSC
<i>Monardella leucocephala</i> Merced monardella	PDLAM180C0	None	None	GH	SH	1A
<i>Mylopharodon conocephalus</i> hardhead	AFCJB25010	None	None	G3	S3	SSC
<i>Myotis yumanensis</i> Yuma myotis	AMACC01020	None	None	G5	S4	
<i>Neostapfia colusana</i> Colusa grass	PMPOA4C010	Threatened	Endangered	G1	S1	1B.1
<i>Neotoma fuscipes riparia</i> riparian (=San Joaquin Valley) woodrat	AMAFF08081	Endangered	None	G5T1Q	S1	SSC
<i>Northern Hardpan Vernal Pool</i> Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
<i>Oncorhynchus mykiss irideus</i> steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
<i>Orcuttia inaequalis</i> San Joaquin Valley Orcutt grass	PMPOA4G060	Threatened	Endangered	G1	S1	1B.1
<i>Puccinellia simplex</i> California alkali grass	PMPOA53110	None	None	G3	S2	1B.2
<i>Sphenopholis obtusata</i> prairie wedge grass	PMPOA5T030	None	None	G5	S2	2B.2
<i>Sylvilagus bachmani riparius</i> riparian brush rabbit	AMAEB01021	Endangered	Endangered	G5T1	S1	
<i>Tuctoria greenei</i> Greene's tuctoria	PMPOA6N010	Endangered	Rare	G1	S1	1B.1
<i>Vireo bellii pusillus</i> least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	
<i>Vulpes macrotis mutica</i> San Joaquin kit fox	AMAJA03041	Endangered	Threatened	G4T2	S2	

Record Count: 56

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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](#)

Search Criteria

Found in Quads 3712172, 3712171, 3712078, 3712162, 3712161, 3712068, 3712152, 3712151, 3712058, 3712077, 3712067 3712057 and 3712047;

[Modify Search Criteria](#)
[Export to Excel](#)
[Modify Columns](#)
[Modify Sort](#)
[Display Photos](#)

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Atriplex cordulata var. cordulata	heartscale	Chenopodiaceae	annual herb	Apr-Oct	1B.2	S2	G3T2
Atriplex coronata var. coronata	crownscale	Chenopodiaceae	annual herb	Mar-Oct	4.2	S3	G4T3
Atriplex minuscula	lesser saltscale	Chenopodiaceae	annual herb	May-Oct	1B.1	S2	G2
Atriplex subtilis	subtle orache	Chenopodiaceae	annual herb	Jun, Aug, Sep (Oct)	1B.2	S1	G1
Blepharizonia plumosa	big tarplant	Asteraceae	annual herb	Jul-Oct	1B.1	S2	G2
California macrophylla	round-leaved filaree	Geraniaceae	annual herb	Mar-May	1B.2	S3?	G3?
Centromadia parryi ssp. rudis	Parry's rough tarplant	Asteraceae	annual herb	May-Oct	4.2	S3	G3T3
Clarkia rostrata	beaked clarkia	Onagraceae	annual herb	Apr-May	1B.3	S2S3	G2G3
Eryngium racemosum	Delta button-celery	Apiaceae	annual / perennial herb	Jun-Oct	1B.1	S1	G1
Eschscholzia rhombipetala	diamond-petaled California poppy	Papaveraceae	annual herb	Mar-Apr	1B.1	S1	G1
Legenere limosa	legenere	Campanulaceae	annual herb	Apr-Jun	1B.1	S2	G2
Monardella leucocephala	Merced monardella	Lamiaceae	annual herb	May-Aug	1A	SH	GH
Neostapfia colusana	Colusa grass	Poaceae	annual herb	May-Aug	1B.1	S1	G1
Orcuttia inaequalis	San Joaquin Valley Orcutt grass	Poaceae	annual herb	Apr-Sep	1B.1	S1	G1
Puccinellia simplex	California alkali grass	Poaceae	annual herb	Mar-May	1B.2	S2	G3
Sphenopholis obtusata	prairie wedge grass	Poaceae	perennial herb	Apr-Jul	2B.2	S2	G5
Tuctoria greenei	Greene's tuctoria	Poaceae	annual herb	May-Jul (Sep)	1B.1	S1	G1

Suggested Citation

California Native Plant Society, Rare Plant Program. 2017. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website <http://www.rareplants.cnps.org> [accessed 03 August 2017].

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[About the Rare Plant Program](#)
[CNPS Home Page](#)
[About CNPS](#)
[Join CNPS](#)

[The Calflora Database](#)
[The California Lichen Society](#)

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.

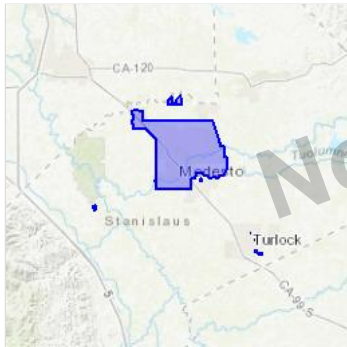
Project information

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

📠 (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 species¹ 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

NAME	STATUS
Fresno Kangaroo Rat <i>Dipodomys nitratoides exilis</i> There is a critical habitat designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/5150	Endangered
Riparian Brush Rabbit <i>Sylvilagus bachmani riparius</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6189	Endangered
San Joaquin Kit Fox <i>Vulpes macrotis mutica</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2873	Endangered

Birds

NAME	STATUS
Least Bell's Vireo <i>Vireo bellii pusillus</i> There is a critical habitat designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/5945	Endangered

Reptiles

NAME	STATUS
Blunt-nosed Leopard Lizard <i>Gambelia silus</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/625	Endangered
Giant Garter Snake <i>Thamnophis gigas</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

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

Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is a <u>nal critical habitat</u> designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/321	Threatened
Steelhead <i>Oncorhynchus (=Salmo) mykiss</i> There is a <u>nal critical habitat</u> designated for this species. Your location overlaps the designated critical habitat. https://ecos.fws.gov/ecp/species/1007	Threatened

Insects

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

Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is a <u>nal critical habitat</u> designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/8246	Endangered
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is a <u>nal critical habitat</u> designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is a <u>nal critical habitat</u> designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/2246	Endangered

Flowering Plants

NAME	STATUS
Greene's Tuctoria <i>Tuctoria greenei</i> There is a <u>nal critical habitat</u> designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/1573	Endangered
San Joaquin Orcutt Grass <i>Orcuttia inaequalis</i> There is a <u>nal critical habitat</u> designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/5506	Threatened

Critical habitats

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:

NAME	TYPE
Steelhead Oncorhynchus (=Salmo) mykiss South-Central California Coast DPS https://ecos.fws.gov/ecp/species/1007#crithab	Final designated
Steelhead Oncorhynchus (=Salmo) mykiss Northern California DPS https://ecos.fws.gov/ecp/species/1007#crithab	Final designated
Steelhead Oncorhynchus (=Salmo) mykiss Southern California DPS https://ecos.fws.gov/ecp/species/1007#crithab	Final designated
Steelhead Oncorhynchus (=Salmo) mykiss California Central Valley DPS https://ecos.fws.gov/ecp/species/1007#crithab	Final designated
Steelhead Oncorhynchus (=Salmo) mykiss Central California Coast DPS https://ecos.fws.gov/ecp/species/1007#crithab	Final designated

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.

1. The [Migratory Birds Treaty Act](#) of 1918.
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:

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

NAME	SEASON(S)
Allen's Hummingbird <i>Selasphorus sasin</i> https://ecos.fws.gov/ecp/species/9637	Migrating
Bald Eagle <i>Haliaeetus leucocephalus</i> https://ecos.fws.gov/ecp/species/1626	Year-round

Black Rail <i>Laterallus jamaicensis</i> https://ecos.fws.gov/ecp/species/7717	Breeding
Burrowing Owl <i>Athene cunicularia</i> https://ecos.fws.gov/ecp/species/9737	Year-round
Calliope Hummingbird <i>Stellula calliope</i> https://ecos.fws.gov/ecp/species/9526	Migrating
Costa's Hummingbird <i>Calypte costae</i> https://ecos.fws.gov/ecp/species/9470	Year-round
Fox Sparrow <i>Passerella iliaca</i>	Wintering
Least Bittern <i>Ixobrychus exilis</i> https://ecos.fws.gov/ecp/species/6175	Breeding
Lesser Yellowlegs <i>Tringa flavipes</i> https://ecos.fws.gov/ecp/species/9679	Wintering
Lewis's Woodpecker <i>Melanerpes lewis</i> https://ecos.fws.gov/ecp/species/9408	Wintering
Loggerhead Shrike <i>Lanius ludovicianus</i> https://ecos.fws.gov/ecp/species/8833	Year-round
Long-billed Curlew <i>Numenius americanus</i> https://ecos.fws.gov/ecp/species/5511	Wintering
Marbled Godwit <i>Limosa fedoa</i> https://ecos.fws.gov/ecp/species/9481	Wintering
Mountain Plover <i>Charadrius montanus</i> https://ecos.fws.gov/ecp/species/3638	Wintering
Nuttall's Woodpecker <i>Picoides nuttallii</i> https://ecos.fws.gov/ecp/species/9410	Year-round
Oak Titmouse <i>Baeolophus inornatus</i> https://ecos.fws.gov/ecp/species/9656	Year-round
Peregrine Falcon <i>Falco peregrinus</i> https://ecos.fws.gov/ecp/species/8831	Year-round
Rufous Hummingbird <i>selasphorus rufus</i> https://ecos.fws.gov/ecp/species/8002	Migrating
Short-eared Owl <i>Asio flammeus</i> https://ecos.fws.gov/ecp/species/9295	Wintering
Swainson's Hawk <i>Buteo swainsoni</i> https://ecos.fws.gov/ecp/species/1098	Breeding
Tricolored Blackbird <i>Agelaius tricolor</i> https://ecos.fws.gov/ecp/species/3910	Year-round
Western Grebe <i>aechmophorus occidentalis</i> https://ecos.fws.gov/ecp/species/6743	Wintering
Williamson's Sapsucker <i>Sphyrapicus thyroideus</i> https://ecos.fws.gov/ecp/species/8832	Year-round



What does IPaC use to generate the list of migratory bird species potentially occurring in my specified location?

Landbirds:

Migratory birds that are displayed on 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 2008 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. NOAA/NCCOS 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 also offers data and information about other types of taxa that may be helpful in your project review.

About the NOAA/NCCOS models: the models were developed as part of the NOAA/NCCOS 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 NOAA/NCCOS [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 tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

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

Appendix C

Tribal Cultural Resources Technical Information

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Lone Band of Miwok Indians

A Federally Recognized Sovereign Tribe

21 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;



Lone Band of Miwok Indians

A Federally Recognized Sovereign Tribe

(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.



Lone Band of Miwok Indians

A Federally Recognized Sovereign Tribe

3. The results of any Sacred Lands File (SFL) check conducted through the Native American Heritage Commission. The request form can be found at <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,

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



NORTHERN VALLEY YOKUTS

P.O. BOX 717 * LINDEN, CA. 95236 * (209) 887-3415 * Fax: (209) 887-3415

August 25th 2015

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

RECEIVED
SEP 08 2015
C&ED PLANNING

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.

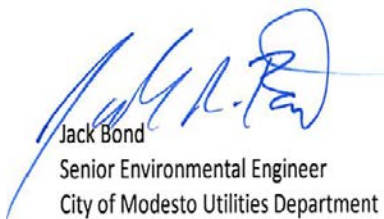
Pursuant to Public Resources Code Section 21080.3.1 *et seq.*, the City of Modesto Utilities Department is notifying you of our intent to consider the Proposed Project. To initiate formal consultation with the City regarding any potential impacts of this Proposed Project on tribal cultural resources, 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,



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.

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



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

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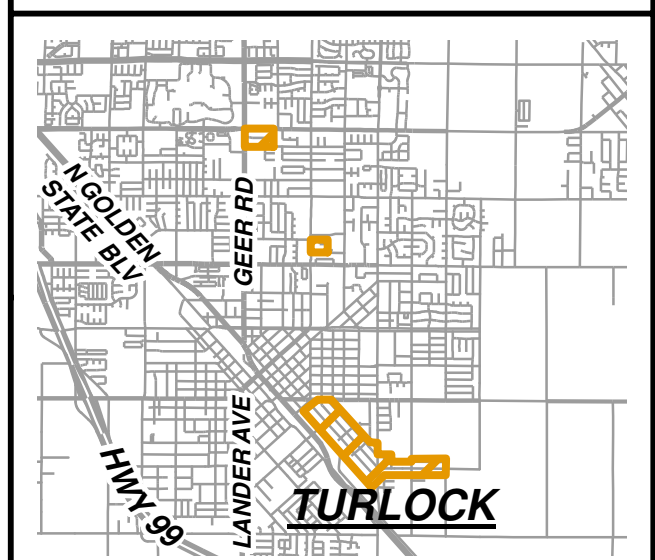
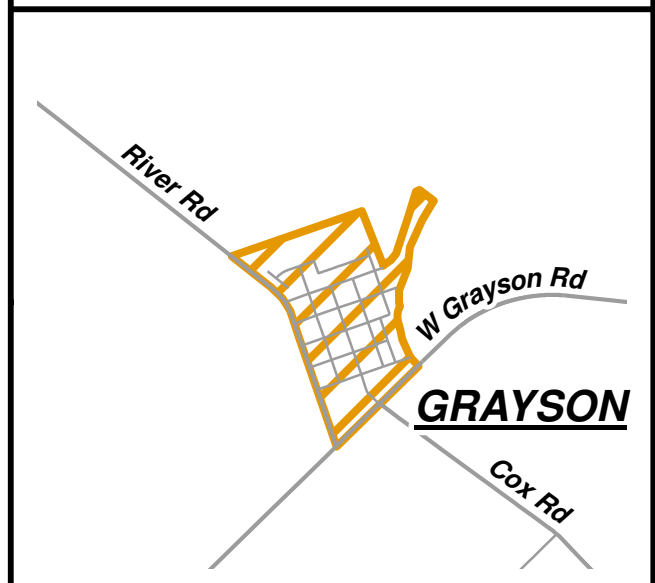
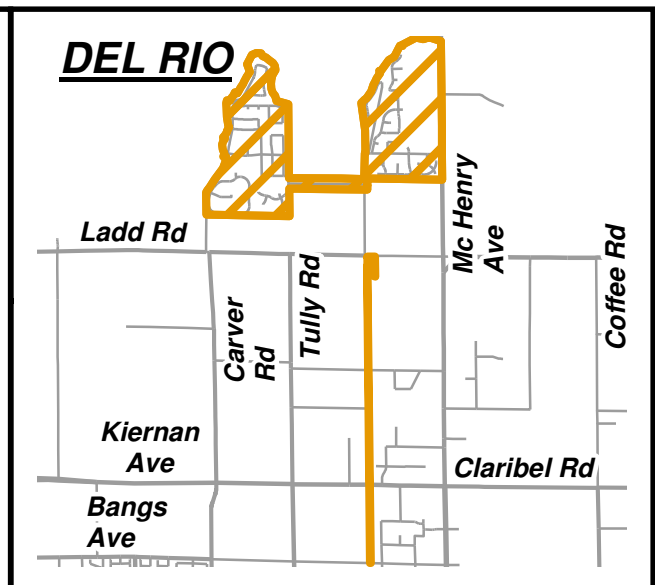
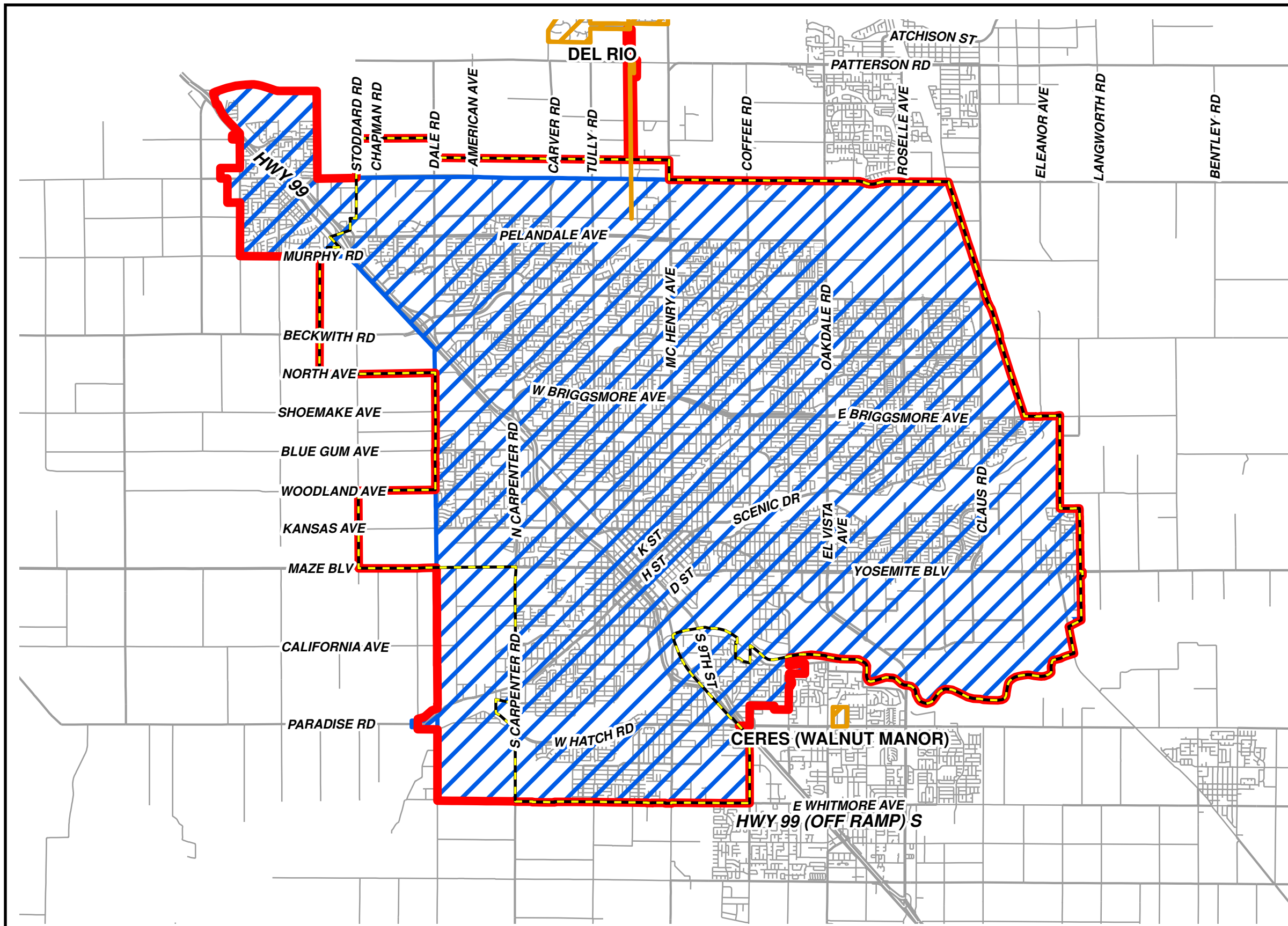
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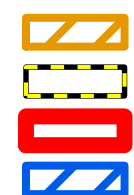


Jack Bond
Senior Environmental Engineer
City of Modesto Utilities Department

Attachment



Legend



- Outlying Service Area Names
- Sphere of Influence
- Study Area Boundary*
- Contiguous Service Area

— Roads

***THIS IS THE MAXIMUM AREA; ACTUAL BOUNDARY WILL BE DETERMINED BY FUTURE COUNCIL ACTION**

WATER MASTER PLAN STUDY AREA



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

SJVAPCD	San Joaquin Valley Air Pollution Control District
SVP	Society of Vertebrate Paleontology
SWPPP	stormwater pollution prevention plan
U.S.	United States
USFWS	U.S. Fish and Wildlife Service
VELB	valley elderberry longhorn beetle
WMP	Water Master Plan

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
<i>Aesthetics</i>					
AES-1	<p>Locate Staging Areas Away from Public Areas and Install Screening.</p> <p>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.</p>	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm that measure is included in plans and specifications. 2. Confirm that selected staging areas comply with requirements of the measure. 3. If necessary, confirm that screening methods are implemented appropriately. 	<ol style="list-style-type: none"> 1. During preparation of plans and specifications. 2. Prior to construction. 3. Prior to construction. 	
AES-2	<p>Incorporate Aesthetic Considerations into Design for Storage Tanks, Pump Stations, Groundwater Well Buildings, and Other Above-ground Facilities to Be Consistent with Surrounding Setting.</p> <p>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</p>	1. N/A	<ol style="list-style-type: none"> 1. Design facilities in accordance with considerations described in the measure. 	<ol style="list-style-type: none"> 1. During design phase. 	

Mitigation Measure	Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
<p>used to enhance the aesthetic appearance of proposed facilities and to integrate them with the existing visual setting:</p> <ul style="list-style-type: none"> ▪ 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. ▪ Proposed facility designs shall integrate elements such as color, materials, and pattern of the surrounding landscape. ▪ 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. ▪ Wherever possible, use of unpainted metallic surfaces and other reflective sources that may cause increased levels of reflectivity shall be eliminated. ▪ 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. ▪ Any outdoor night lighting shall be motion-activated and include baffles that direct lighting onto the facility and minimize light spillage onto adjoining properties. 				

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
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 .	—	—	—	
Air Quality					
AQ-1	<p>Implement SJVAPCD Regulation VIII Control Measures for Construction Emissions of PM₁₀</p> <p>The following controls are required to be implemented by the City or its contractor at all construction sites.</p> <ul style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Include emission reduction measures into the project plans and specifications. 2. Implement and document emission reduction measures. 	<ol style="list-style-type: none"> 1. Confirm emission reduction measures are incorporated into the project plans and specifications. 2. Confirm emission reduction measures are implemented properly. 	<ol style="list-style-type: none"> 1. During development of the plans and specifications. 2. During construction. 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>fugitive dust emissions through the application of water during work or by presoaking.</p> <ul style="list-style-type: none"> 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	<p>Implement Enhanced Control Measures for Construction Emissions of PM₁₀</p> <p>The following measures will be implemented by the City or its contractor at construction sites when required to</p>	1. Include enhanced emission control measures into	1. Confirm enhanced emission control	1. During preparation of plans and specifications.	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>mitigate significant PM₁₀ 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):</p> <ol style="list-style-type: none"> 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. <p>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.</p> <ol style="list-style-type: none"> 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. 	<p>project plans and specifications.</p> <ol style="list-style-type: none"> 2. Implement and document enhanced emission control measures. 	<p>measures are included in project plans and specifications.</p> <ol style="list-style-type: none"> 2. Confirm that enhanced emission control measures are implemented properly. 	<ol style="list-style-type: none"> 2. During construction. 	
AQ-3	<p>Implement Control Measures for Operation Emissions of PM₁₀ and for Ozone Precursors (ROG and NOx)</p> <p>In compliance with SJVAPCD rules, when the Air Quality Thresholds of Significance will be exceeded, the City or its</p>	<ol style="list-style-type: none"> 1. N/A 2. If necessary, and if directed by the City, install 	<ol style="list-style-type: none"> 1. For new or modified facilities, conduct site- 	<ol style="list-style-type: none"> 1. Prior to or during design phase. 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	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.	equipment with Best Available Control Technology at new or modified facility sites.	specific air quality analysis to determine if operational emissions will exceed SJVAPCD thresholds. 2. If thresholds will be exceeded, ensure that equipment with Best Available Control Technology is installed.	2. If necessary, include equipment specifications during development of plans and specifications. Install equipment during construction.	
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	1. N/A 2. Provide the City with advance notice of construction schedule and anticipated start date. Support site access for qualified biologist.	1. Retain a qualified biologist to conduct focused surveys. 2. Ensure qualified biologist conducts focused surveys prior to	1. Prior to construction. 2. Prior to construction. 3. Prior to construction.	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	affected, then Mitigation Measure BIO-2 shall be implemented.	3. Do not start construction until focused surveys have been conducted and, if necessary, Mitigation Measure BIO-2 has been implemented.	implementation of construction activities. 3. If special-status plants are identified that may be directly or indirectly affected by activities, ensure that Mitigation Measure BIO-2 is implemented.		
BIO-2	<p>Avoid, Minimize, and Compensate for Impacts on Special-status Plant Species.</p> <p>If special-status plants are detected, the City shall implement the following measures to avoid, minimize and compensate for impacts on special-status plant species:</p> <ul style="list-style-type: none"> The component shall be redesigned or modified to avoid direct and indirect impacts on special-status plant species, if feasible. Any special-status plant species occurrences near a Program site will be protected by environmentally-sensitive area fencing (orange construction barrier fencing) installed around special-status plant species populations. The environmentally sensitive area fencing will be installed at least 200 feet from the 	<p>1. If necessary, redesign or modify Program components to avoid or minimize impacts on special-status species.</p> <p>2. Incorporate requirements prohibiting activities within fenced environmentally-sensitive areas</p>	<p>1. Confirm that modified design would avoid or minimize special-status plant species.</p> <p>2. Confirm that requirements prohibiting activities within fenced environmentally-sensitive areas are included in</p>	<p>1. During design phase.</p> <p>2. During preparation of plans and specifications.</p> <p>3. Prior to start of construction.</p> <p>4. Prior to construction.</p> <p>5. During and/or after construction. Annual monitoring</p>	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>edge of the population where feasible, and where not feasible, the buffer will be large enough to adequately protect populations from program activities. Where special-status plant populations are located in wetlands, silt fencing also will be installed. The location of the fencing will be marked in the field with stakes and flagging, and shown on the construction drawings. The construction specifications will contain clear language that prohibits construction-related activities, vehicle operation, material and equipment storage, and other surface disturbing activities within the fenced environmentally sensitive area.</p> <ul style="list-style-type: none"> ▪ If avoidance is not feasible, the City will consult with either CDFW or USFWS, or both, depending upon which has jurisdiction, to determine whether transplantation of special-status plant species is feasible. If the agencies concur that it is a feasible mitigation measure, the botanist will develop and implement a Rare Plant Relocation, Management, and Protection Plan (Rare Plant Plan) in coordination with the appropriate agencies. The Rare Plant Plan will include the following components: relocation methods that will minimize the potential loss of plants from relocation, management plans and success criteria by which the mitigation can be measured for success, and regular monitoring to ensure that the plants are successfully transplanted. Success criteria shall require that at least 75% of the plants survive. The 	<p>into plans and specifications.</p> <p>3. Protect any special-status plant species occurrences near a Program component site with environmentally-sensitive area fencing.</p> <p>4. N/A</p> <p>5. If directed by the City, implement the Rare Plant Plan prepared by the qualified botanist.</p>	<p>plans and specifications.</p> <p>3. Confirm that environmentally-sensitive area fencing is appropriately implemented, if such fencing is necessary to protect special-status species.</p> <p>4. If avoidance is not feasible, consult with CDFW and/or USFWS to determine feasibility of special-status plant species transplantation. If feasible, retain qualified botanist to prepare Rare Plant Plan.</p> <p>5. If necessary (i.e., avoidance is not feasible),</p>	<p>would occur for 5 years after planting.</p>	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>Rare Plant Plan will include specific, measurable triggers for adaptive management actions that will be necessary to ensure survival.</p> <ul style="list-style-type: none"> ▪ 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 and density, 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. ▪ 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 		confirm Rare Plant Plan is appropriately prepared by a qualified individual, and appropriately implemented (including 5-year monitoring requirements).		

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>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.</p>				
BIO-3	<p>Avoid Impacts on Vernal Pool Branchiopods, Western Spadefoot, and Their Habitat.</p> <p>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.</p>	<p>1. N/A</p> <p>2. If necessary, and if habitat is present on-site, implement buffer zone identified by qualified biologist and/or USFWS to protect habitat.</p>	<p>1. Retain a qualified biologist to conduct surveys for vernal pools and wetlands.</p> <p>2. If surveys find potential special-status invertebrate species habitat, confirm that an adequate buffer zone is implemented to</p>	<p>1. Prior to construction.</p> <p>2. Prior to initiation of construction activities.</p>	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
			protect resources.		
BIO-4	<p>Minimize and Compensate for Impacts on Branchiopods, Western Spadefoot, and Their Habitat.</p> <p>If direct or indirect impacts to habitat with the potential to support vernal pool branchiopods or potential western spadefoot breeding habitat cannot be avoided the City shall implement the following measures:</p> <ul style="list-style-type: none"> After construction, restore surface topography and drainage to pre-construction conditions; and Provide off-site compensation for permanent, temporary, and indirect impacts at ratios determined through consultation with USFWS and CDFW. The performance standard shall be no net loss in acreage or habitat quality for vernal pool branchiopods and no net loss in breeding habitat quality or acreage for western spadefoot, as determined through consultation with USFWS and CDFW. 	<ol style="list-style-type: none"> 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. N/A If instructed by the City, implement off-site compensation plan for impacts to vernal pool branchiopods and/or western spadefoot. 	<ol style="list-style-type: none"> 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. Consult with USFWS and CDFW to determine appropriate ratios for off-site compensation for impacts to vernal pool branchiopods and/or western spadefoot. 	<ol style="list-style-type: none"> Following construction. As soon as it is determined that impacts to species/habitat cannot be avoided per Mitigation Measure BIO-3. Following consultation with USFWS/CDFW and development of compensation approach. 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
			3. Either implement compensation plan, instruct the contractor to do so, or hire a third party to perform the needed work.		
BIO-5	<p>Mitigation Measure BIO-5: Avoid Impacts on VELB Habitat.</p> <p>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 (<i>Desmocerus californicus dimorphus</i>) (USFWS 2017g). This shall include the following avoidance measures:</p>	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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. 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<ul style="list-style-type: none"> 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. 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. 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. 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. 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 	<p>necessary, and VELB habitat is present on-site, implement avoidance measures described in mitigation measure.</p> <p>4. N/A</p>	<p>present, ensure that avoidance measures are implemented.</p> <p>4. If elderberry shrubs cannot be avoided, implement Mitigation Measure BIO-6.</p>		

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>monitoring shall depend on the project specifics and should be discussed with USFWS.</p> <ul style="list-style-type: none"> 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). 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. 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. 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. Erosion control shall be implemented and the affected area shall be re-vegetated with appropriate native plants. <p>If elderberry shrubs cannot be avoided, implement Mitigation Measure BIO-6.</p>				
BIO-6	<p>Implement VELB Compensatory Mitigation, if Necessary.</p> <p>The City shall implement the following measures. If feasible, any shrub that would be adversely impacted by</p>	1. Take all measures to preserve any elderberry shrub encountered that	1. Ensure that any elderberry shrub removed during	1. During or prior to construction, if elderberry	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>the project shall be transplanted to a USFWS-approved location per Mitigation Measure BIO-7.</p> <p>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.</p> <p>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.</p> <p>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.</p>	<p>must be removed, such that the shrub may be transplanted per Mitigation Measure BIO-7.</p> <p>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.</p> <p>3. N/A</p>	<p>construction is preserved and transplanted per Mitigation Measure BIO-7, if feasible.</p> <p>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.</p> <p>3. Confirm that compensatory mitigation is satisfactorily provided.</p>	<p>shrubs are encountered.</p> <p>2. Once it is determined that avoidance of elderberry shrubs is infeasible. Compensatory mitigation shall be provided after approach is confirmed by USFWS.</p> <p>3. After implementation of compensatory mitigation plan/approach.</p>	
BIO-7	Transplant Elderberry Shrubs if Avoidance Is Not Feasible.	1. N/A	1. Retain a qualified	1. Prior to construction.	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> ▪ 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 CNDDDB. 	2. Under direction of the qualified biologist, transplant elderberry shrubs that cannot be avoided following the guidelines and requirements in the mitigation measure.	<p>biologist to oversee transplantation activities, should such activities be necessary.</p> <p>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.</p>	2. After it is determined that elderberry shrubs cannot be avoided.	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<ul style="list-style-type: none"> 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. Transplanting shall follow the most current version of the ANSI A300 (Part 6) guidelines for transplanting (www.tcia.org/). 				
BIO-8	<p>Conduct Preconstruction Surveys for and Minimize Impacts on Western Pond Turtle.</p> <p>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.</p> <ul style="list-style-type: none"> 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 	<ol style="list-style-type: none"> N/A Do not initiate construction activities until preconstruction surveys have been conducted. 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 	<ol style="list-style-type: none"> Retain a qualified biologist to conduct preconstruction surveys for western pond turtle in any suitable habitat. Confirm that surveys are conducted in accordance with the mitigation measure prior to initiation of construction activities. For any turtles discovered in the project 	<ol style="list-style-type: none"> Prior to construction. Prior to initiation of construction activities. Prior to, or during, construction, if necessary. 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>downstream from the project site (with authorization from CDFW).</p> <ul style="list-style-type: none"> The construction area will be clearly defined, using orange barrier fencing, in order to minimize disturbance to riparian vegetation and western pond turtle habitat. 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). 	directed by the biologist.	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.		
BIO-9	<p>Conduct Pre-construction Surveys for Burrowing Owls and Implement No-Work Buffer Areas if Necessary.</p> <p>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</p>	<ol style="list-style-type: none"> N/A Do not initiate construction activities until preconstruction surveys have been completed. Provide any needed support/assistance to the qualified 	<ol style="list-style-type: none"> Retain a qualified biologist to conduct the preconstruction surveys for burrowing owls. If burrowing owls are located on or within 250 feet 	<ol style="list-style-type: none"> Prior to construction. Prior to construction. Prior to construction / after it is determined that occupied burrows cannot be avoided. 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>	<p>biologist in establishing no-work buffers around occupied burrows, if such burrows are discovered.</p> <p>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.</p>	<p>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.</p> <p>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</p>		

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	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.		prior to implementation of passive relocation techniques. Obtain approval from CDFW for owl relocation plan.		
BIO-10	<p>Avoid, Minimize, or Compensate for Impacts on Raptors, including Special-status Species.</p> <p>The City shall implement the following measures.</p> <ul style="list-style-type: none"> 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 	<ol style="list-style-type: none"> N/A 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 	<ol style="list-style-type: none"> Retain a qualified biologist to conduct the nesting raptor survey. If nesting raptors are detected, ensure that an appropriate 500-foot no-disturbance buffer is established around the nest. 	<ol style="list-style-type: none"> Prior to construction. Prior to construction, if necessary. 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	within the buffer until fledglings are fully mobile and no longer reliant upon the nest or parental care for survival.	buffers around the nest(s). Do not conduct activities within the buffer(s) until directed by the biologist.			
BIO-11	<p>Compensate for Loss of Raptor Foraging Habitat.</p> <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> 1 acre of habitat management land for each acre of development authorized (1:1 ratio), at least 10% of which shall be met by fee title acquisition or a conservation easement allowing for the active 	1. N/A	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.	1. After the acreage of any permanent impacts to raptor foraging habitat is determined.	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>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</p> <ul style="list-style-type: none"> 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. <p>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.</p>				
BIO-12	<p>Conduct Pre-construction Surveys for Nesting Birds and Implement No-Work Buffer Areas if Necessary.</p> <p>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</p>	<ol style="list-style-type: none"> N/A Do not initiate construction activities during the bird breeding season until surveys have been conducted. Provide any assistance or accommodation necessary to the 	<ol style="list-style-type: none"> Retain a qualified biologist to conduct the preconstruction surveys for nesting birds. Confirm that surveys are appropriately conducted within 14 days 	<ol style="list-style-type: none"> Prior to construction. Prior to construction. Prior to and during construction. 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>the survey indicates that no active nests are found, no further mitigation shall be required.</p> <p>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.</p>	<p>biologist conducting the survey.</p> <p>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.</p>	<p>of construction activity that would occur during the bird breeding season.</p> <p>3. In the event that active nests are identified, ensure that no-disturbance buffers are established around nests in accordance with the measure.</p>		
BIO-13	<p>Avoid and Minimize Impacts on Federally Protected Wetlands.</p> <p>The City shall implement the following measures. To the extent feasible, proposed construction activities shall avoid federally protected wetlands.</p> <p>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</p>	<p>1. N/A</p> <p>2. Avoid wetlands to the extent feasible.</p> <p>3. If wetlands cannot be avoided, following construction, restore surface</p>	<p>1. If complete avoidance of wetlands is not possible, perform or commission a wetland delineation study for the project site, to</p>	<p>1. Prior to construction.</p> <p>2. During construction.</p> <p>3. Following construction.</p>	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	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. 2. Confirm that wetlands are avoided during construction activities to the extent feasible. 3. In the event that wetlands cannot be avoided, confirm that wetland areas are restored to pre-construction conditions.		
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	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	authorized under these permits, and the work shall comply with the general and regional conditions of the permits. In areas where disturbance to jurisdictional waters or wetlands occurs, the City shall implement mitigation consistent with the terms of a CWA Nationwide Permit and/or the Final Rule on Compensatory Mitigation for Losses of Aquatic Resources (73 Fed. Reg. 19594). Compensatory mitigation may include creation, reestablishment, or enhancement of wetlands in the study area or at an off-site location. Compensatory mitigation may also include purchase of credits at an approved mitigation bank or contribution to an approved in-lieu fee program.	regulatory permits. 2. N/A	2. For areas where wetland impacts occur, provide compensatory mitigation by one of the methods described in the mitigation measure.	the regulatory agencies.	
BIO-15	Install Temporary Trench Plates over Open Trenches. The City shall implement the following measure. During open-cut construction of pipelines, the City shall install temporary trench plates over open trenches at the end of each work day.	1. Incorporate requirement into project plans and specifications. 2. Cover open trenches with trench plates at the end of each work day.	1. Confirm that requirement is included in plans and specifications. 2. Confirm that contractor is covering trenches appropriately at the end of each work day.	1. During preparation of plans and specifications. 2. During construction.	
<i>Cultural Resources</i>					
CR-1	Conduct Cultural Resources Awareness Training for Construction Workers Prior to Beginning Work.	1. Coordinate with the City to	1. Arrange for workers to	1. Prior to construction	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	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.	provide workers information about potential buried cultural resources.	receive information about potential buried cultural resources	2. During construction, if necessary	
Hydrology & Water Quality					
HYD/ WQ-1	Prepare and Implement a Frac-Out Contingency Plan for Trenchless Pipeline Installation Methods. The City of Modesto's drilling contractor for trenchless pipeline installation activities (e.g., horizontal directional drilling or microtunneling) shall prepare and implement a frac-out contingency plan prior to conducting Proposed Program construction activities involving these methods. At a minimum, the frac-out contingency plan shall include the following components/measures:	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.	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<ul style="list-style-type: none"> ▪ 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. ▪ 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. ▪ 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. ▪ Maintain necessary response equipment on-site or at a readily accessible location and in good working order. ▪ 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): <ul style="list-style-type: none"> ▪ For a terrestrial frac-out: <ul style="list-style-type: none"> – Isolate the area with hay bales, sand bags, or silt fencing to surround and contain the drilling mud. 	<p>archaeologist, and biologist to survey area and make recommendation s. Coordinate worker training for field personnel.</p> <p>3. For any frac-outs that occur, notify the appropriate agencies and implement the appropriate measures, as specified in the measure.</p>	<p>engineer and qualified archaeologist and biologist to make recommendation s to minimize impacts. Arrange for field personnel to receive training.</p> <p>3. For any frac-outs that occur, confirm that proper protocols were followed to contain the frac-out and minimize impacts.</p>		

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<ul style="list-style-type: none"> – Based on consultation with CDFW (see below), either: <ul style="list-style-type: none"> ▪ Use a mobile vacuum truck to pump the drilling mud from the contained area and recycle it to the return pit; or ▪ Leave the drilling mud in place to avoid potential damage from vehicles entering the area. – 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. ▪ For an aquatic frac-out: – Monitor frac-out for 4 hours to determine if the drilling mud congeals (bentonite will usually harden, effectively sealing the frac-out location). – Based on consultation with CDFW (see below), either: <ul style="list-style-type: none"> ▪ If the drilling mud congeals, take no other action that would potentially suspend sediments in the water column. ▪ If drilling mud does not congeal, erect isolation/containment environment (underwater boom and curtain). ▪ If the fracture becomes excessively large, call in a spill response team to contain and 				

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<p>clean up excess drilling mud in the water. Keep phone numbers of spill response teams on-site.</p> <p>– 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.</p> <ul style="list-style-type: none"> ▪ 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	<p>Employ Noise-Reducing Construction and Maintenance Practices.</p> <p>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:</p> <ul style="list-style-type: none"> ▪ 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 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. During preparation of plans and specifications. 2. During construction. 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<ul style="list-style-type: none"> 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. <p>When determining haul truck routes, consideration will be given to altering haul routes to avoid sensitive receptors when feasible.</p>				
NOI-2	<p>Limit Nighttime Construction Noise.</p> <p>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.</p>	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm that measure is included in project plans and specifications. 2. Confirm that Contractor follows requirements specified in the mitigation measure. 	<ol style="list-style-type: none"> 1. During development of plans and specifications. 2. During construction. 	
NOI-3	<p>Employ Noise-Reducing Methods During Operations.</p> <p>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:</p>	<ol style="list-style-type: none"> 1. N/A 2. If necessary, and if directed by the City, implement noise-reducing measures at new 	<ol style="list-style-type: none"> 1. For new or modified facilities, conduct site-specific noise analysis to determine if 	<ol style="list-style-type: none"> 1. Prior to or during the design phase. 2. Incorporate measures during design 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<ul style="list-style-type: none"> ▪ 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. ▪ 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, ▪ 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 ▪ 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. 	or modified facility sites.	<p>County noise-level standards will be exceeded at adjacent residences during facility operations.</p> <p>2. If standards will be exceeded, implement noise-reducing measures to reduce noise to below standards.</p>	phase. Implement measures during construction.	
NOI-4	<p>Implement Vibration Reduction Measures.</p> <p>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:</p>	<ol style="list-style-type: none"> 1. Include measures in project plans and specifications. 2. Implement and document vibration- 	<ol style="list-style-type: none"> 1. Confirm that measures are included in project plans and specifications. 2. Confirm that measures are 	<ol style="list-style-type: none"> 1. During development of plans and specifications. 2. During construction. 	

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	<ul style="list-style-type: none"> ▪ Ensure proper tuning of vibration-causing equipment. ▪ Use vibration damping devices to the extent feasible. ▪ 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. ▪ 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. ▪ Use electric stationary equipment (e.g., generators) where feasible. ▪ 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 	reducing measures.	implemented properly.		

Mitigation Measure		Contractor Responsibility	City Responsibility	Monitoring Schedule	Completion Date and Initials
	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.				

