



Cooperative Agreement Amendment for Upper Temescal Valley Salt and Nutrient Management Plan

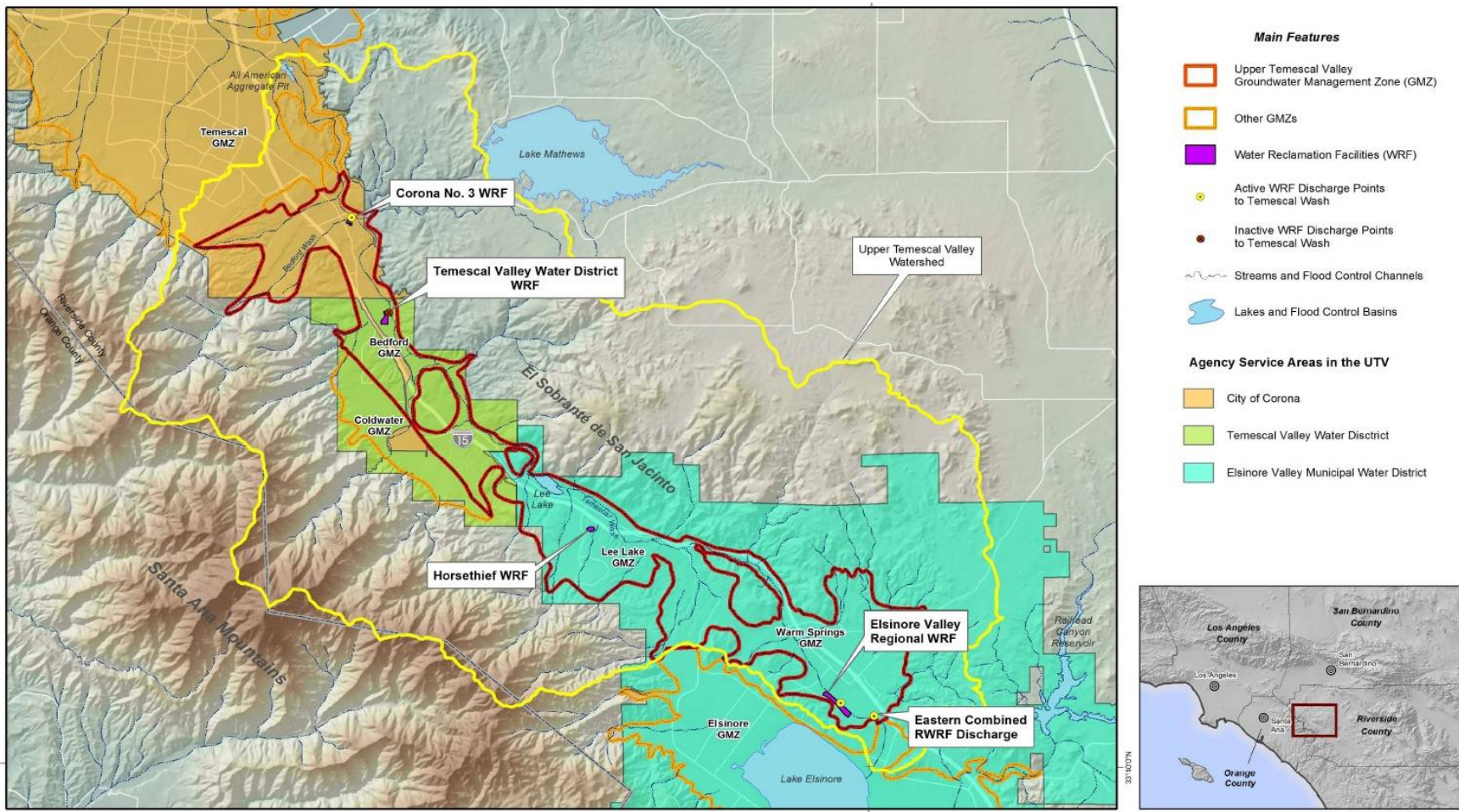
Al Javier

January 14, 2021

Agenda

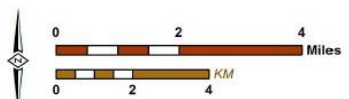
- Background
- Cooperative Agreements with Elsinore Valley Municipal Water District
- Salt and Nutrient Management Plan
 - Status
 - Proposed Action
 - Cost
- Recommendation

Upper Temescal Valley Groundwater Basins



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 Date: 9/4/2016
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Upper Temescal Valley
 Salt and Nutrient Management Plan

Upper Temescal Valley SNMP
 Study Area

Figure 1-1



Background

- EMWD has a National Pollutant Discharge Elimination System (NPDES) permit
 - Discharge into Temescal Creek near Lake Elsinore
 - 52.5 million gallons per day (MGD) for seasonal discharge
 - Total Dissolved Solids (TDS) limit of **650** mg/L
- Elsinore Valley Municipal Water District (EVMWD) has an NPDES permit that allows:
 - Discharge to Temescal Creek
 - TDS limit of **700** mg/L

Background (continued)

- Both EMWD and EVMWD TDS limits are not scientifically based on water quality data
 - Typically based on groundwater and surface water quality objectives
 - Insufficient water quality data for the groundwater basins in the Upper Temescal Valley (UTV)
- Reason for development of the Salt and Nutrient Management Plan (SNMP)
 - Required by Santa Ana Regional Water Quality Control Board (SARWQCB)
 - Determine historical and current water quality
 - Determine anti-degradation objectives

Cooperative Agreement with EVMWD

- July 3, 2013 – EMWD authorized the cooperative agreement with EVMWD to develop an Upper Temescal Valley Salt and Nutrient Management Plan for \$322,964
 - EMWD’s cost was \$161,482
- November 5, 2014 – EMWD authorized the first amendment to the cooperative agreement for \$67,992 for development of the ambient water quality
 - EMWD additional funding required for \$33,996

COOPERATIVE AGREEMENT BETWEEN ELSINORE VALLEY MUNICIPAL WATER DISTRICT AND EASTERN MUNICIPAL WATER DISTRICT REGARDING THE DEVELOPMENT OF AN UPPER TEMESCAL VALLEY SALT AND NUTRIENT MANAGEMENT PLAN

This COOPERATIVE AGREEMENT (“Agreement”) by and between ELSINORE VALLEY MUNICIPAL WATER DISTRICT, a municipal water district created pursuant to the provisions of the California Water Code sections 71000 *et seq.* (“EVMWD”) and EASTERN MUNICIPAL WATER DISTRICT, a municipal water district created pursuant to the provisions of the California Water Code sections 71000 *et seq.* (“EMWD”) is made and entered into as of the 13th day of June, 2013 (“Effective Date”). EVMWD and EMWD are sometimes individually referred to as “Party” and collectively as “Parties.”

1. Recitals

1.1 WHEREAS, EVMWD and EMWD each provide water and sewer service in an area centered near the intersection of Interstate 15 and Interstate 215 in Riverside County, California; and

1.2 WHEREAS, as part of EVMWD’s current negotiations to renew its NPDES permit, the Santa Ana Regional Water Quality Control Board (the “Board”) required the EVMWD to prepare a salt offset plan to (1) quantify the impact of discharges in excess of 700 mg/L on the water quality of the Santa Ana River and the groundwater management zones underlying the natural - bottom reach of Temescal Creek (Warm Springs, Lee Lake, and Bedford); and (2) propose a salt offset to mitigate the mass of salt discharged in excess of the discharge limitations; and

1.3 WHEREAS, EVMWD and EMWD received a proposal (from Wildermuth Environmental, Inc., as revised May 13, 2013, “Subject: Development of an Upper Temescal Valley Salt and Nutrient Management Plan”) to: (1) develop anti-degradation objectives for an Upper Temescal Valley Management Zone (UTVMZ); (2) estimate current ambient water quality of the UTVMZ; (3) project future Nitrogen (N) and total dissolved solids (TDS) concentrations in the UTVMZ based on the range of possible recycled water discharge and reuse plans; (4) identify the regulatory challenges that arise from the implementation of recycled water discharge and reuse plans; and (5) produce a Salt and Nutrient Management Plan (SNMP) that addresses the N/TDS challenges in the UTVMZ; and

1.4 WHEREAS, EVMWD and EMWD desire to collaborate in the creation of a regional SNMP, which might offer a more efficient and cost effective option for meeting the requirements of the Board; and

1.5 WHEREAS, on behalf of the Parties, EVMWD has received a proposal, attached hereto, and incorporated herein as Exhibit A, for performing specifically identified tasks in the UTVMZ; and

1.6 WHEREAS, the purpose of this Cooperative Agreement is to set forth the terms, conditions, and financial arrangements whereby the Parties will engage a consultant to conduct the identified tasks in the UTVMZ.

NOW, THEREFORE, in consideration of the above recitals and the mutual covenants hereinafter contained and for good and valuable consideration, the receipt of which is hereby acknowledged, the Parties agree as follows:

Cooperative Agreement with EVMWD (continued)

- April 19, 2017 - District approved and authorized appropriated \$102,341 for EMWD's portion of the action to incorporate the SNMP into the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) including CEQA and implementing year 1 of the SNMP
- December 19, 2018 - District approved and authorized appropriation of \$156,716 for EMWD's portion for implementing years 2 and 3 of the SNMP

Salt and Nutrient Management Plan

Upper Temescal Valley Basin Groundwater Water Quality Results

Description	20 Year Period	TDS	Nitrate-N
Historical Ambient Water Quality	1954 to 1973	822 mg/L	7.9 mg/L
Prior Ambient Water Quality	1995 to 2014	750 mg/L	4.7 mg/L
Current Ambient Water Quality	1999 to 2018	840 mg/L	4.1 mg/L
Antidegradation Objective	NA	820 mg/L	7.9 mg/L

- EMWD discharge limit 650 mg/L TDS & 7.5 mg/L Nitrate
- SARWQCB approved UTV SNMP on November 7, 2017
- Anti-degradation Objectives incorporated into the SARWQCB Basin Plan on December 4, 2020

Salt and Nutrient Management Plan (continued)

- Update 2020 SNMP
 - Submitted to the SARWQCB on December 1, 2020
- Continuing Actions:
 - Participate in joint water quality monitoring and reporting
 - Conduct triennial ambient water quality recomputation and reporting including recycled water policy requirement
- Identified Management Actions:
 - Storm Water Program Development
 - Surface Water Monitoring Station Installation
 - Salt Offset Plan

Project Cost Estimates

Implementation Action Items	CY2021	CY2022	CY2023	Subtotal	EMWD Cost
Continued Monitoring & Reporting	\$ 108,526	\$ 112,324	\$ 116,255	\$ 337,105	\$ 168,553
Storm Water Program Development and Implementation	\$ 25,493	\$ 25,000	\$ 18,000	\$ 68,493	\$ 34,247
Surface Water Monitoring Station Design, Installation and Implementation*	\$ 78,005	\$ 59,888	\$ 133,965	\$ 271,858	\$ 135,929
Salt Offset Plan for Permit Exceedance and Implementation	\$ 109,898	\$ 50,000	\$ 50,000	\$ 209,898	\$ 104,949
Triennial Ambient Water Quality Recalculation	\$ 0	\$ 25,000	\$ 35,000	\$ 60,000	\$ 30,000
Subtotal (Three Year Total)	\$ 321,922	\$ 272,212	\$ 353,220	\$ 947,354	
EMWD Cost (Three Year Total)	\$ 160,961	\$ 136,106	\$ 176,610		\$ 473,677
6% Contingency					\$ 26,323
Appropriation Request					\$ 500,000

EMWD participation is 50% of the cost



Recommendation

Approve and authorize the second amendment of the Cooperative Agreement with EVMWD for implementing the Upper Temescal Salt and Nutrient Management Plan for the years 2021 to 2023; and appropriation of \$500,000 to fund the three-year Cooperative Agreement Second Amendment.





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