United Water Conservation District

2015 URBAN WATER MANAGEMENT PLAN
for the Oxnard-Hueneme System

Prepared By:

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Chapter 1. Introduction and Overview

1.1. Background and Purpose

United Water Conservation District (United), located in Ventura County, California, is a public agency established in 1950 with the mission to better manage, protect, and enhance water supply in the Santa Clara River Valley and Oxnard Plain. United's operational area and key facilities are illustrated in Figure 1-1. As part of its mission, United operates the Oxnard-Hueneme (O-H) System, a domestic water supply system. Through the O-H System, United is able to provide communities, schools, and agriculture with a local water source, allowing the region to be less dependent on the State Water Project (SWP).

The purpose of this 2015 Urban Water Management Plan (UWMP) is to provide United, its stakeholders, and the public with an updated status and long-term plan for the O-H System including:

- Water deliveries and uses
- Water supply sources
- Efficient water uses
- Demand management measures
- Water shortage contingency planning

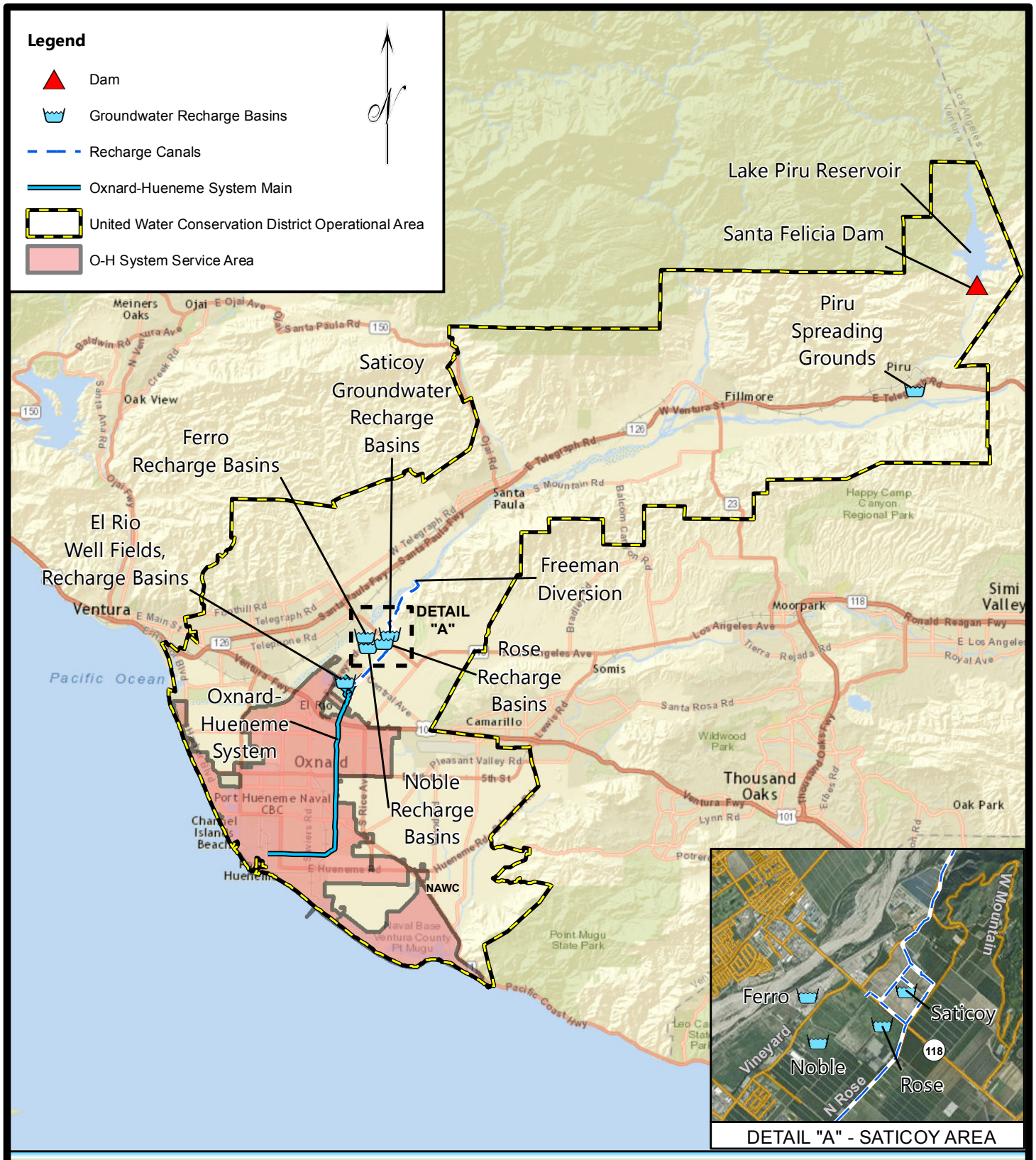
This UWMP was prepared in compliance with the Water Conservation Act of 2009, also known as Senate Bill X7-7 (SB X7-7), under the authorization of United.

United actively participates in other regional planning efforts including: the Technical Advisory Committee (TAC) for the Groundwater Sustainability Plan (as required by the Sustainable Groundwater Management Act of 2014) formed by the Fox Canyon Groundwater Management Agency (FCGMA); the Lower Santa Clara River Salt and Nutrient Management Plan; and others. United also prepares monthly Hydrologic Conditions Reports and Annual Groundwater and Surface Water Conditions Reports.

Notification letters sent to agencies are provided in Appendix A.

Public notice for the 2015 UWMP public hearing is provided in Appendix B.

The Adoption Resolution passed by the United Board of Directors on June 8, 2016 is provided in Appendix C.


Legend
Dam
Groundwater Recharge Basins
Recharge Canals
Oxnard-Hueneme System Main
United Water Conservation District Operational Area
O-H System Service Area
Lake Piru Reservoir
Santa Felicia Dam
Piru Spreading Grounds
Saticoy Groundwater Recharge Basins
Ferro Recharge Basins
El Rio Well Fields, Recharge Basins
Freeman Diversion
DETAIL "A"
Rose Recharge Basins
Oxnard-Hueneme System
Noble Recharge Basins
Pacific Ocean
Ventura
Oxnard
Port Hueneme Naval CBC
NAWC
Fillmore
Santa Paula
Piru
Moorpark
Simi Valley
Somis
Camarillo
Thousand Oaks
Oak Park
Oak View
Meiners Oaks
Ojai
Happy Camp Canyon Regional Park
Point Mugu State Park
Naval Base Ventura County Pt Mugu
Ferro
Saticoy
Noble
Rose
W Mountain
Vineyard
N Rose
DETAIL "A" - SATICOY AREA
0 2.5 5
Miles
1 inch = 5 miles
Figure 1-1
United Water Conservation District
Service Area Boundary
and Key Facilities

Chapter 2. Plan Preparation

2.1. Basis for Preparing a Plan

Urban water suppliers with 3,000 or more service connections or supplying more than 3,000 acre-feet of water per year (AFY) are required to prepare an UWMP every five years in compliance with the California Water Code (CWC) 10617. Though the O-H System has fewer than 3,000 service connections, it exceeds the 3,000 AFY volume threshold requirement to prepare a UWMP.

Through the O-H System, United acts as a Primarily Wholesale Urban Water Supplier. The majority of the water distributed by the O-H System is provided to other water agencies such as the City of Oxnard, Port Hueneme Water Agency (PHWA), and several mutual water companies. A small portion of the water supplied by the system is distributed directly to retail customers.

2.1.1. Public Water Systems

The O-H System is a Public Water System (PWS) as it supplies drinking water for human consumption. As a PWS, Annual Reports for the O-H System are filed with the State Water Resources Control Board (SWRCB) through the Drinking Water Program (eARDWP). Data included in this UWMP is consistent with the data filed in the 2015 Annual Report to the SWRCB.

Table 2-1 from the California Department of Water Resources (DWR) Guidebook for Urban Water Suppliers (Guidebook) applies to Retail suppliers and is not applicable to United's O-H System.

Table 2-1 Retail Only: Public Water Systems

Public Water System Number	Public Water System Name	Number of Municipal Connections 2015	Volume of Water Supplied 2015
NA			
	TOTAL	0	0
NOTES:			

2.2. Regional Planning

The 2015 UWMP for the United O-H System has been prepared as an individual reporting plan that only covers the service area of the O-H System.

2.3. Individual or Regional Planning and Compliance

This document was prepared as an Individual UWMP and addresses all the requirements of the CWC. Coordination of this UWMP with other agencies and constituents is described in Section 2.5 of this document.

Table 2-2: Plan Identification		
☑	Individual UWMP	
☐	Regional UWMP (RUWMP)	
	Choose One:	
	☐	RUWMP includes a Regional Alliance
	☐	RUWMP does not include a Regional Alliance
NOTES:		

2.3.1. Regional UWMP

This document was not prepared as part of a Regional UWMP.

2.3.2. Regional Alliance

This section applies to retail water agencies and is not applicable to this UWMP.

2.4. Fiscal or Calendar Year and Units of Measure

2.4.1. Fiscal or Calendar Year

The 2015 UWMP for the O-H System was prepared on a calendar year basis.

2.4.2. Reporting Complete 2015 Data

This 2015 UWMP includes complete water use and planning data for calendar year 2015.

2.4.3. Units of Measure

Volumes reported in this UWMP are in acre-feet (AF) and are consistent throughout the Plan. Table 2-3 shows the parameters under which the 2015 UWMP for the United O-H System was prepared.

Table 2-3: Agency Identification	
Type of Agency (select one or both)	
☑	Agency is a wholesaler
☐	Agency is a retailer
Fiscal or Calendar Year (select one)	
☑	UWMP Tables Are in Calendar Years
☐	UWMP Tables Are in Fiscal Years
If Using Fiscal Years Provide Month and Day that the Fiscal Year Begins	
Day	*Month*
Units of Measure Used in UWMP (select one)	
☑	Acre Feet (AF)
☐	Million Gallons (MG)
☐	Hundred Cubic Feet (CCF)
NOTES:	

2.5. Coordination and Outreach

This section summarizes coordination and outreach efforts related to the development of this UWMP. Table 2-4 summarizes organizations contacted in the development of this UWMP and their associated level of participation.

2.5.1. Wholesale and Retail Coordination

As a water wholesale agency for its O-H System, United coordinates water supply and demand projections with their urban water suppliers, including the City of Oxnard, PHWA, and the mutual water companies. The preparation of Chapters 4 and 6 has taken into account the data received from these agencies. United has provided these agencies with the water supplies projected to be available in increments of five years, from 2015 through 2040, for normal, single-dry, and multiple-dry years.

Table 2-4 Wholesale: Water Supplier Information Exchange	
☐	Supplier has informed more than 10 other water suppliers of water supplies available in accordance with CWC 10631. **Do not complete the table below. Include a list of the water suppliers that were informed. Location of this list in the UWMP:_____**
☑	Supplier has informed 10 or fewer other water suppliers of water supplies available in accordance with CWC 10631.**Complete the table below.**
Water Supplier Name	
City of Oxnard	
Port Hueneme Water Agency	
Dempsey Road Mutual Water Company	
Cypress Mutual Water Company	
Vineyard Avenue Estates Mutual Water Company	
Saviers Road Mutual Water Company	
NOTES:	

2.5.2. Coordination with Other Agencies and the Community

A written notice of this update to the UWMP for the United O-H System was provided to the following agencies:

- City of Oxnard
- Port Hueneme Water Agency
- Channel Islands Beach Community Services District
- US Naval Base Ventura County
- City of Port Hueneme
- Calleguas Municipal Water District
- Fox Canyon GMA/County of Ventura
- Vineyard Avenue Estates Mutual Water Company
- Dempsey Road Mutual Water Company
- Cypress Mutual Water Company
- Saviers Road Mutual Water Company
- Rio School District
- Frank B and Associates

Chapter 3. System Description

3.1. General Description

United was formed in 1950 to conserve and enhance the water resources of the Santa Clara River while protecting the river's natural features. United is funded primarily through groundwater pumping charges, property taxes, and water delivery charges. The Board of Directors includes seven elected members who govern the agency's policy regarding water conservation and protection.

United's groundwater allocation for its O-H System falls under the jurisdiction of the Fox Canyon Groundwater Management Agency (FCGMA), an agency created to manage and protect the groundwater basins underlying the southern portion of Ventura County.

A graphical illustration of United's service area is provided in Section 3.2. United's facilities include:

- Lake Piru Reservoir and Santa Felicia Dam. Santa Felicia Dam was the first dam built solely for the purpose of recharging groundwater and was constructed in 1955. The dam also provides hydroelectric power generation. The 2015 sediment survey by Fugro indicates Lake Piru Reservoir holds 81,985 AF of water. Lake Piru Reservoir provides recreational opportunities for swimming, camping, boating and fishing.

- Freeman Diversion. The Freeman Diversion, built in 1991, diverts water from the Santa Clara River and replenishes approximately 68,100 AFY to the Oxnard Forebay Basin. A fish ladder allows for the annual migration of steelhead trout.

- Groundwater Recharge Basins. Groundwater Recharge Basins include the Ferro, Noble, Saticoy, El Rio, and Rose groundwater recharge basins. These artificial recharge basins allow percolation of diverted flow from the Santa Clara River to replenish the aquifer in the Oxnard Forebay.

- O-H System. The O-H System includes 12 groundwater wells, the El Rio Treatment Plant, and a transmission pipeline to serve the City of Oxnard, PHWA, and several mutual water companies. Retail customers include two schools in the El Rio School District and E&H Land Company. These agencies supplement their other sources of supply, which may include groundwater or imported water, with water from the O-H System. The O-H System infrastructure includes approximately eight miles of transmission line with an additional four miles added by the Mugu Lateral. The O-H system serves an area of approximately 43 square miles. A detailed description of the wellfield and groundwater basin supplying the O-H System is included in Section 6.2.

- Pumping Trough Pipeline, Pleasant Valley Pipeline and Reservoir. This system provides non-potable surface water from the Santa Clara River directly to agricultural users in the Oxnard Plain and Pleasant Valley region to reduce pumping in this area, which is subject to overdraft and seawater intrusion.

More detail on these facilities can be found in the *Final 2010 Urban Water Management Plan Update* (June 2011, Milner-Villa Consulting).

The region served by the O-H system is primarily developed land, including residential, commercial, and industrial customers of the urban water suppliers. The City of Oxnard's 2030 General Plan was completed in 2011 and was used as reference material for Oxnard's population projections.

The communities served by PHWA include the City of Port Hueneme, Channel Islands Beach Community Services District (CIBCSD), and Naval Base Ventura County (NBVC). The City of Port Hueneme and CIBCSD have little

undeveloped land in their jurisdiction. These entities expect population growth of 0.8 percent and 0.24 percent annually, respectively, through the year 2040. NBVC's on-base housing is not expected to increase for the foreseeable future. Projected mission expansion and new command at NBVC have been incorporated into the demands described herein.

The mutual water companies consist of residential customers in developed neighborhoods and these areas are considered fully developed.

3.2. Service Area Boundary Maps

The O-H System service area is illustrated in Figure 3-1.

3.3. Service Area Climate

The O-H System is geographically located on the Oxnard Plain, which has a mild Mediterranean style climate that is primarily controlled by its proximity to the Pacific Ocean.

The average monthly climate data, including evapotranspiration (ETo), rainfall, and temperature, is shown in Table 3-0. Ocean breezes keep temperatures cool in the summer and warmer in the winter. The majority of the rainfall occurs in the winter months, with February having the highest average rainfall. The total yearly average rainfall is 15.64 inches.

Table 3-0: Monthly Average Climate Data Summary

Month	Standard Monthly Average ETo (inches)	Average Total Rainfall (inches)	Average Temperature (degrees Fahrenheit)	
			Max	Min
January	2.30	3.43	66	46
February	2.67	3.90	66	47
March	3.80	3.03	65	48
April	4.45	0.71	67	50
May	5.13	0.20	68	53
June	4.85	0.04	70	56
July	5.16	0.04	73	59
August	4.98	0.08	74	60
September	4.11	0.35	74	59
October	3.22	0.35	73	55
November	2.45	1.38	70	49
December	1.97	2.13	66	45

Note:
Evaporation Data obtained from California Irrigation Management Information System (CIMIS):
http://www.cimis .water.ca.gov
Temperature and Rainfall data obtained from U.S. Climate Data:
http://www.usclimatedata.com/climate/oxnard/california/united-states/usca0819

3.4. Service Area Population and Demographics

Current and estimated population projections for the service area through the year 2040 are provided in Table 3-1. Population estimates were obtained from the City of Oxnard and PHWA and were estimated for the mutual water companies based on the 2010 Urban Water Management Plan.

Table 3-1 Wholesale: Population - Current and Projected

Population Served	2015	2020	2025	2030	2035	2040
Oxnard	193,654	220,248	229,622	238,996	248,370	257,744
PHWA	31,705	32,224	32,316	32,409	32,501	32,744
Mutual Water Companies	500	500	500	500	500	500
Total	225,859	252,972	262,438	271,905	281,371	290,988

3.4.1. Other Demographic Factors

United has a fixed allocation of groundwater it may draw from its wells to supply the O-H System, which is determined by the FCGMA. Changes in population or other demographic features do not alter the groundwater allocation and do not directly affect water management and planning for the O-H System.

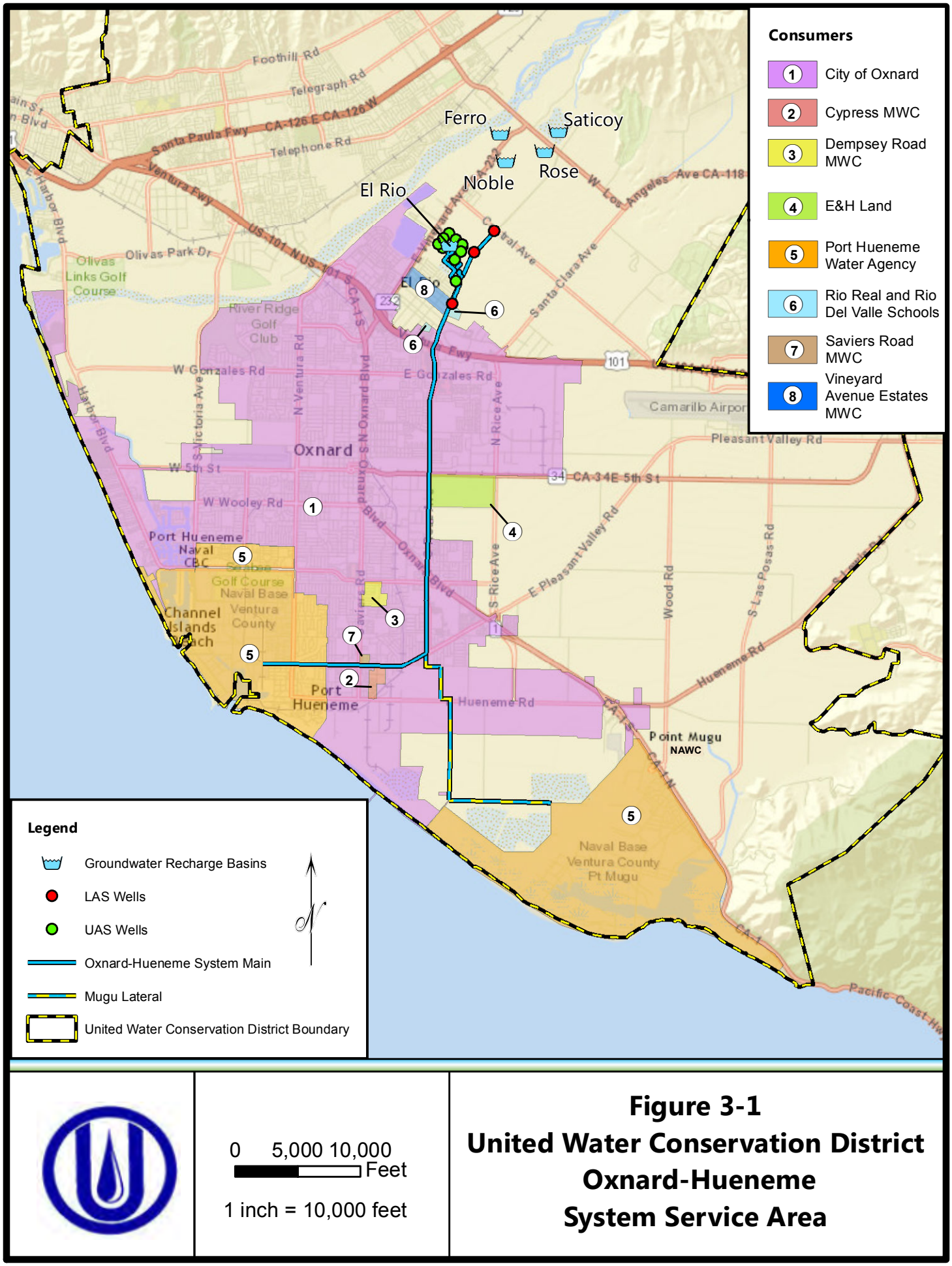


Figure 3-1
United Water Conservation District
Oxnard-Hueneme
System Service Area

Chapter 4. System Demands

4.1. Recycled versus Potable and Raw Water Demand

To provide clarity between potable and recycled water sources, these water sources are discussed in separate sections of this document. A breakdown of potable and raw water demands is provided in Table 4-1 of Section 4.2. A detailed description of recycled water is provided in Chapter 6, Section 6.5. A summary of both potable and recycled water demands is provided in Table 4-3 of Section 4.2.

4.2. Water Uses By Sector

Current system demands are summarized, by sector, in Table 4-1.

Table 4-1 Wholesale: Demands for Potable and Raw Water – Actual (AF)

Use Type	2015 Actual		
	Additional Description	Level of Treatment When Delivered	Volume
Sales to other agencies		Drinking Water	10,880
Retail demand for use by agencies that are primarily wholesalers with a small volume of retail sales	Rio Real and Rio Del Valle Schools, E&H Land Company	Drinking Water	3
Losses		Drinking Water	36
		TOTAL	10,919
NOTES: Losses were calculated using AWWA Method.			

Projected demands are provided in Table 4-2 and are based on a 75 percent reduction of United's O-H System Historical Allocation from FCGMA effective in 2010, also referred to as the Temporary Extraction Allocation (TEA). As such, these are not 'demands' in the strictest sense, but is the amount of groundwater available to United's O-H customers.

Table 4-2 Wholesale: Demands for Potable and Raw Water – Projected (AF)						
Use Type	Additional Description *(as needed)*	Projected Water Use (AF) *Report To the Extent that Records are Available*				
		2020	2025	2030	2035	2040
Sales to other agencies		11,154	11,154	11,154	11,154	11,154
Retail demand for use by agencies that are primarily wholesalers with a small volume of retail sales	El Rio Schools	3	3	3	3	3
Losses	Operational uses and line losses	600	600	600	600	600
TOTAL		11,757	11, 757	11, 757	11, 757	11, 757
NOTES: Based on United's Temporary Extraction Allocation						

As indicated in Table 4-1, only a small portion of the total demand – less than one percent – is sold as retail. The total water demand, including potable, raw, and recycled water, is summarized in Table 4-3.

Table 4-3 Wholesale: Total Water Demands (AF)						
	2015	2020	2025	2030	2035	2040
Potable and Raw Water	10,919	11,757	11,757	11,757	11,757	11,757
Recycled Water Demand	0	0	0	0	0	0
Total Water Demand	10,919	11,757	11,757	11,757	11,757	11,757

United does not collect or treat any wastewater nor receive recycled water from any local wastewater treatment plants. United does not distribute recycled water for use throughout its service area. All recycled water demand is met by local retail agencies.

4.3. Distribution System Water Losses

System water losses occur as a result of leaks and ruptures in the existing distribution network, system flushing and cleaning, and pump pressure relief at wells. Total 2015 system losses for the United O-H System were calculated using the AWWA method from Appendix L of the *2015 UWMP Guidelines* and are provided in Table 4-4. The system loss spreadsheet is included herein as Appendix D.

Table 4-4 Wholesale: Water Loss Summary Most Recent 12 Month Period Available (AF) *(as calculated in Appendix D worksheet)*	
Reporting Period Start Date (Month/Year)	Loss
Jan 2015	36

4.4. Estimating Future Water Savings

This section applies to retail water agencies and is not applicable to United.

4.5. Water Use for Lower Income Households

This section applies to retail water agencies and is not applicable to United. Table 4-5 is for retail water agencies and does not apply to United.

Table 4-5 Retail Only: Inclusion in Water Use Projections	
Are Future Water Savings Included in Projections? (Refer to Appendix K of UWMP Guidebook)	NA
If "Yes" to above, state the section or page number, in the cell to the right, where citations of the codes, ordinances, etc… utilized in demand projections are found.	
Are Lower Income Residential Demands Included In Projections?	NA
NOTES:	

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Chapter 5. Baselines and Targets

This chapter is used by retail agencies to establish and track daily per capita water use targets in accordance with the Water Conservation Act of 2009, also known as SB X7-7. United operates its O-H System primarily as a wholesale agency. Wholesale agencies are not required to establish or meet baseline and targets for daily per capita water use as wholesale agencies supply other water agencies and not a specific population. Though wholesale agencies do not set per capita water use targets, wholesale agencies do play a role in water conservation and support retail agencies in achieving their demand targets.

5.1. Guidance For Wholesale Agencies

Wholesale agencies are guided by the California Water Code, *CWC 10608.36*, to document the programs and means by which they support retail agencies and the State in meeting water use reduction targets. United assists local retail agencies in meeting their demand reduction goals through public outreach and education programs that include:

- Hosting guided tours of United facilities
- Presentations to local, state, and national organizations
- School educational programs at elementary school, middle school, and college levels

5.2. Updating Calculations from 2010 UWMP

5.2.1. Update of Target Method

This section is not applicable to wholesale agencies.

5.2.2. Required Use of 2010 U.S. Census Data

This section is not applicable to wholesale agencies.

5.2.3. SBX7-7 Verification Form

This section is not applicable to wholesale agencies.

5.3. Baseline Periods

This section is not applicable to wholesale agencies.

5.4. Service Area Population

This section is not applicable to wholesale agencies.

5.5. Gross Water Use

This section is not applicable to wholesale agencies.

5.6. Baseline Daily Per Capita Water Use

This section is not applicable to wholesale agencies.

5.7. 2015 and 2020 Targets

This section is not applicable to wholesale agencies.

5.8. 2015 Compliance Daily Per Capita Water Use (GPCD)

This section is not applicable to wholesale agencies.

5.9. Regional Alliance

This section is not applicable to wholesale agencies.

Chapter 6. System Supplies

This chapter provides an overview of possible source water options and quantifies their present and future use in supplying the O-H System.

6.1. Purchased or Imported Water

United Water Conservation District does not purchase or import water for the O-H System on a regular basis.

United is a party to the *Contract Between the State of California Department of Water Resources and Ventura County Flood Control District for a Water Supply* (Table A Contract) which was executed in 1963. The Table A Contract includes an annual entitlement, which is currently 20,000 AFY for the participants. The Table A Contract expires in 2035; negotiations are currently underway to extend the contract.

United completed the *Additional State Water Importation Program Preliminary Feasibility Report (United, July 2011)* to provide background information on a potential program to import State Water Project water. Although United is not currently involved in any long-term water supply exchanges and transfers, it has executed agreements intended to optimize the utilization of its existing water supplies. In May 2012, United entered into an Agreement for Purchase of 2012 Table A State Water Project Water (2012 Agreement) with Casitas Municipal Water District to purchase 1,260 AF of Casitas' Table A allocation. The 2012 Agreement was valid for 2012 only. In February 2013, United entered into an Agreement for Purchase of 2013 Table A State Water Project Water (2013 Agreement) with the City of San Buenaventura. The Agreement allowed United to purchase 1,890 AF for the calendar year 2013 only. These water purchases were delivered at Lake Piru Reservoir and released to the Santa Clara River. Because of the nature of the Santa Clara River, it is unknown if any of this water actually flowed to the Freeman Diversion, and hence to the El Rio Spreading Basins. The purchase of SWP water will be considered by United annually on an as-needed basis.

6.2. Groundwater

The O-H system is supplied by 12 wells that draw from the Oxnard Plain Groundwater Basin. There are presently only 11 wells that supply the O-H system (2A, 4*, 5, 6, 8, 11, 12, 13, 14, 15, 16, 17). Well 4 is scheduled for replacement.

The Annual Investigation and Report of Groundwater Conditions Within United Water Conservation District (United Water Conservation District, May 2015) can be found at: http://www.unitedwater.org/images/stories/reports/GW-Conditions-Reports/2014-2015_Annual_GW_Conditions_Report.pdf.

6.2.1. Basin Description

Groundwater for the United O-H system is drawn from the Oxnard Plain Groundwater Basin, a subbasin of the Santa Clara River Valley Groundwater Basin (Groundwater Basin Number 4-4.02). The Oxnard Plain Groundwater Basin contains a collection of interconnected aquifers separated by layers of clay strata. Figure 6-1 shows the boundary of the Oxnard Plain Basin.

0 5,000 10,000 Feet

1 inch = 10,000 feet

Figure 6-1
Oxnard Plain Basin

The Oxnard Plain Groundwater Basin can be generally categorized into three parts: the Oxnard Forebay, the Upper Aquifer System (UAS) and the Lower Aquifer System (LAS). Figure 6-2 provides a schematic profile view of the Oxnard Plain Groundwater Basin.

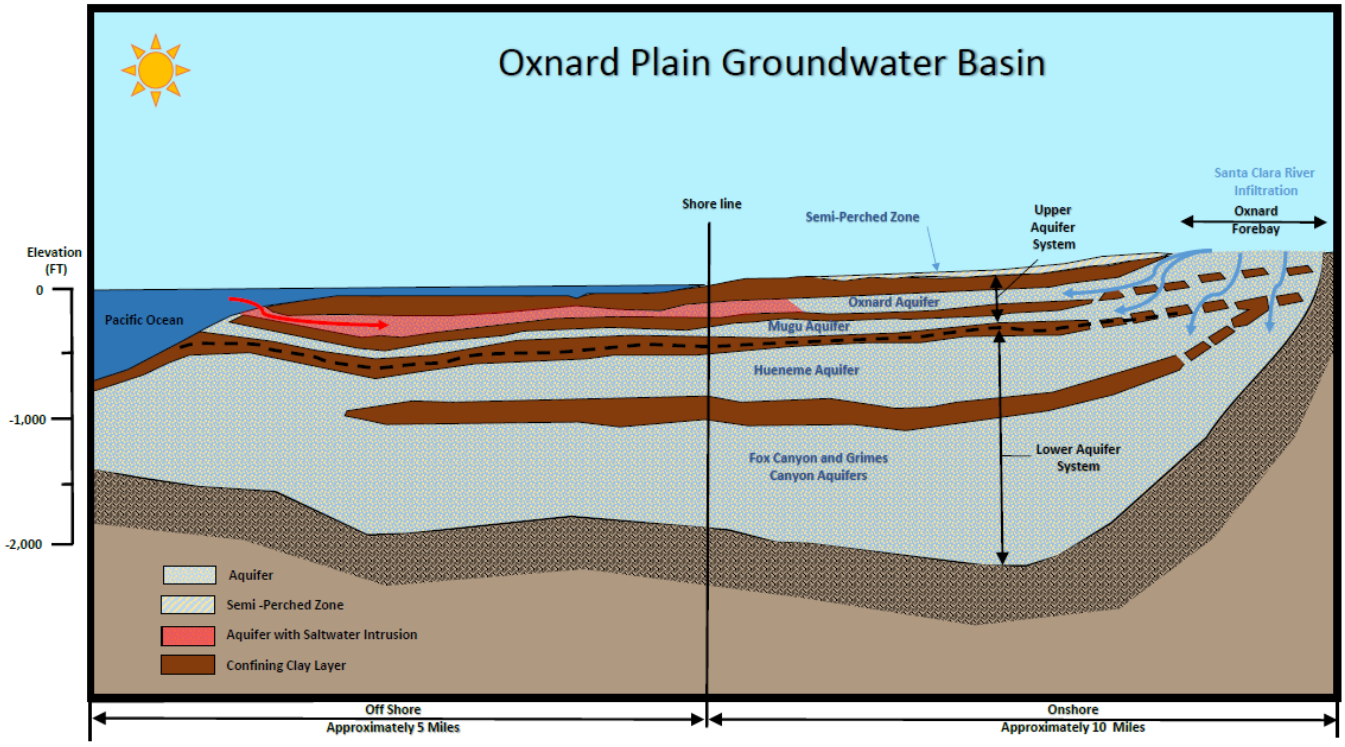


Figure 6-2 Oxnard Plain Aquifer Profile

The Oxnard Forebay is the unconfined portion of the Oxnard Plain Basin and is generally located along the Santa Clara River northeast of where the Pacific Coast Highway joins U.S. Highway 101 in the City of Oxnard. The Oxnard Forebay is the primary means by which the Oxnard Plain Groundwater Basin is recharged. The Oxnard Forebay Basin is recharged by infiltration from the riverbed of the Santa Clara River and recharge basins constructed for that purpose. From the Oxnard Forebay, located in the uppermost portion of the Oxnard Plain Basin, groundwater is able to seep into the Upper and Lower Aquifer Systems because the clay layers which separate the aquifers are not continuous at this location.

The UAS comprises the upper 500 feet of the confined portions of the Oxnard Plain Basin, which includes a semi-perched zone and the Oxnard and Mugu aquifers. The UAS and LAS are hydraulically connected to the Pacific Ocean and are the means by which seawater intrusion enters the Oxnard Plain Basin. United has ten wells that draw from the UAS (one of which is inactive).

The LAS includes the deeper confined aquifers, including the Hueneme, Fox Canyon, and Grimes Canyon aquifers. The LAS is separated by an approximately 80-foot-thick layer of silty clay which is continuous except near the Oxnard Forebay. United has three wells that draw from the LAS, which are standby wells.

6.2.2. Groundwater Management

The FCGMA was established in Ventura County by State Assembly Bill No. 2995 of the State Legislature in 1982 to control groundwater overdraft and minimize the threat of seawater intrusion in the Upper and Lower Aquifer Systems of the Oxnard Plain. After completing the FCGMA Planning Study that analyzed the condition of the LAS and UAS, the FCGMA adopted a plan of management of the LAS and UAS within the FCGMA boundaries in 1985. The objective of that plan and other policies adopted by the FCGMA is to eliminate overdraft in its service area, which also includes the East and West Las Posas Basins, and bring these basins to a "safe yield" condition by 2010. A "safe yield" condition is achieved when groundwater extractions from a basin are approximately equal to annual replenishments of water into the groundwater basin. The safe yield estimate for the FCGMA area was historically approximately 120,000 AFY. The FCGMA is now considering the safe yield estimate at 100,000 AFY, which will be evaluated as part of the Sustainable Groundwater Management Plan effort currently underway. Allowing for changes in annual rainfall, the reductions in groundwater allocations imposed by the FCGMA have only recently significantly reduced groundwater extractions.

Major elements of the UAS Plan include:

1. Ventura County Ordinance No. 3739 - This existing County ordinance prohibits the construction, repair, or modification of UAS wells in areas where increased extractions would increase the overdraft and the rate of seawater intrusion in the Oxnard Plain.
2. Completion of the Seawater Intrusion Abatement Project through improvement of the Vern Freeman Diversion and operating the new project under criteria developed to ensure proper water allocation.
3. Annual monitoring to determine the effectiveness of the project.

Major elements of the LAS Plan include:

1. Monitoring for seawater intrusion in the LAS near the coastline by constructing four new monitoring wells.
2. Development of Contingency Plans in the event seawater intrudes into the LAS. These plans call for conservation and reclamation efforts, increased monitoring and pumping restrictions.
3. Implementation of pumping restrictions in the North Las Posas Basin would prohibit expansion of all types of water above the LAS outcrop or to other non-water-bearing areas. This outcrop more or less parallels the south flank of South Mountain. The restriction would regulate the drilling of new LAS water wells and use of groundwater in the North Las Posas Basin to ensure adopted FCGMA groundwater pumping projections are not exceeded.
4. Pumping will be accurately monitored throughout the FCGMA by requiring semiannual reporting of metered extractions. Results will be used to verify water use rates and to limit groundwater extractions in basins where adopted FCGMA extractions are exceeded after adjustment of the data to account for wet and dry years.

6.2.2.1. FCGMA Ordinance No. 8

On 26 June 2002, the FCGMA adopted Ordinance No. 8 which can be found at http://www.fcgma.org/images/ordinances_legislation/Ordinance_No._8.0.pdf. This ordinance combines each of the active individual ordinances (Ordinances Nos. 1.3, 3.2, 4.3, and 5.9) into a single comprehensive ordinance. One of the key elements of FCGMA Ordinance No. 8 is the gradual reduction in groundwater extractions by all municipal pumpers except those with baseline extraction allocations or annual efficiency extraction allocations. FCGMA assigned allocations to each groundwater pumper. The reduction schedule is based on the average "historical extraction" using the five calendar years of reported extractions from 1985 to 1989.

Groundwater extraction allocations for each well are set according to the following formula:

4. 1992-1994 extraction allocation = 95 percent of historical extraction, as adjusted.
5. 1995-1999 extraction allocation = 90 percent of historical extraction, as adjusted.
6. 2000-2004 extraction allocation = 85 percent of historical extraction, as adjusted.
7. 2005-2009 extraction allocation = 80 percent of historical extraction, as adjusted.
8. After 2009 extraction allocation = 75 percent of historical extraction, as adjusted.

Baseline allocations are not subject to the incremental reductions. Pursuant to its Ordinance No. 8, FCGMA also has the authority to grant an "annual efficiency allocation" to those agricultural users whose operations have demonstrated a certain level of efficiency and conservation in their water usage. Thus, although an efficiency allocation may be different than the extraction allocation, such efficiency allocations further the goal of bringing the basin to safe yield by encouraging water conservation.

6.2.2.2. Groundwater Management Plan

In May 2007, FCGMA, together with United and Calleguas Municipal Water District, issued a Groundwater Management Plan which was an update to the 1985 plan and incorporates the studies conducted since the original plan was prepared. The goal of the plan is to address a variety of ongoing basin issues, in addition to the original goal to contain saline intrusion. The plan concludes that the annual yield of the basin must be reduced from 120,000 AFY to 100,000 AFY to achieve the basin management objectives. The plan presents and evaluates the strategies currently under development as well as future strategies to achieve the basin management objectives.

In 2003 the United States Geological Survey completed the *Simulation of Ground-Water/Surface-Water Flow in the Santa Clara-Calleguas Ground-Water Basin, Ventura County California* (USGS Study) available at http://pubs.usgs.gov/wri/wri024136/wrir024136.pdf. The USGS Study included development of a groundwater flow model to better define the geohydrologic structure of the regional groundwater basin. The groundwater model was calibrated and used to assess future groundwater conditions based on proposed water supply projects.

6.2.2.3. FCGMA Emergency Ordinance E and Resolution 2013-03

In response to the ongoing drought, FCGMA adopted Emergency Ordinance E on 11 April 2014, which requires groundwater users to reduce their extractions or pay significant financial penalties. The tiered financial penalties are prescribed in Resolution 2013-03. Municipal and industrial well operators must reduce pumping by 10 percent from the average pumping between 2003 and 2012. The mandated reduction increased to 20 percent on 1 July 2015.

Emergency Ordinance E shall remain be reviewed every eighteen months, unless superseded or rescinded by Board action, or a finding by the Board the drought no longer exists. Emergency Ordinance E can be found the FCGMA website at: http://www.fcgma.org/images/ordinances_legislation/Emergency_Ordinance_E_-_Orig._Signed_optimized.pdf

6.2.3. Overdraft Conditions

Localized saline intrusion was observed in the 1930s and 1940s along the coast near Port Hueneme as groundwater pumping reduced groundwater levels, induced intrusion, and increased chloride levels. Within 20 years, saline intrusion had extended three miles inland. In some affected wells, chloride concentrations reached 20,000 milligrams per liter (mg/L). By the late 1950s, groundwater levels in the Lower Aquifer System dropped below sea level. Saline intrusion primarily occurred at the Hueneme Submarine Canyon and Mugu Submarine Canyon. The *Oxnard Plain Time Domain Electromagnetic Study for Saline Intrusion* (United Water Conservation District, October 2010) can be found at: http://www.unitedwater.org/images/stories/reports/GW-Conditions-Reports/OFR%202010-003%20Oxnard%20Plain%20TDEM%20Study%20for%20Saline%20Intrusion%20-%20FINAL.pdf.

Figure 6-3 shows the areas of historical saline intrusion.

0 5,000 10,000 Feet

1 inch = 10,000 feet

Figure 6-3
Saline Groundwater Intrusion
Oxnard Plain Basin

The 2007 Groundwater Management Plan establishes the need for the annual yield of the basin to be no more than 100,000 AFY. The average extraction between 2003 and 2012 was 124,586 AFY. Accordingly, FCGMA adopted Emergency Ordinance E to achieve the necessary reduction in groundwater extractions. FCGMA, as the designated groundwater sustainability agency, will be preparing a Groundwater Sustainability Plan to achieve the established basin management objectives.

6.2.4. Historical Groundwater Pumping

United's primary strategy for groundwater recharge is to recharge diverted surface water from the Santa Clara River at the Saticoy and El Rio Groundwater Recharge Basins, as well as the Noble and Rose Basins, which are former gravel pits in the Oxnard Forebay. Another element of the strategy is to deliver surface water to farms in the southeastern Oxnard Plain and Pleasant Valley basins. These deliveries reduce groundwater pumping in critical areas of the Oxnard Plain.

The groundwater extracted by United for the O-H System is primarily recharged by the El Rio Groundwater Recharge Basins. All of the shallow wells (Nos. 2A, 4, 5, 6, 8, 11, 15, 16, and 17) are located at the El Rio Groundwater Recharge Basins and are directly connected to the O-H System. All of the shallow wells (except Well No. 11) are under the direct influence of surface water (i.e., less than 150 feet from incoming surface water) and are therefore subject to the Surface Water Treatment Rule and require an additional step of disinfection. The deep wells (Nos. 12, 13 and 14) are not physically located in the boundaries of the El Rio Groundwater Recharge Basins; however, these deep wells are recharged by these basins and are also directly connected to the O-H Pipeline.

United diverts surface water from the Santa Clara River at the Freeman Diversion and conveys the water to the recharge basins. During recharge operations, the water quality of the groundwater is similar to the water quality of the Santa Clara River which is generally higher than that of the ambient groundwater. After recharge operations have ceased for several months, water quality can be affected. Without dilution from recharge operations, nitrate concentrations in UAS wells gradually increase. During this time, the deep LAS wells which have low nitrate concentrations are operated to supplement and blend with UAS well water supplies. The LAS wells contain high concentrations of iron and manganese which, when blended with the UAS wells, is still below secondary MCLs. Higher iron and manganese concentrations are known to affect taste and color and can affect reverse osmosis operations. This effect is apparent during the ongoing drought. Table 6-1 summarizes United's pumping from 2011 to 2015.

Table 6-1 Wholesale: Groundwater Volume Pumped (AF)

☐	Supplier does not pump groundwater. The supplier will not complete the table below.					
Groundwater Type	Location or Basin Name	2011	2012	2013	2014	2015
Alluvial Basin	Oxnard Plain Groundwater Basin, Oxnard Forebay	10,747	14,210	13,852	10,915	10,920
	TOTAL	10,747	14,210	13,852	10,915	10,920
NOTES:						

6.3. Surface Water

As discussed in Section 6.2.4, United captures surface water from the Santa Clara River at the Freeman Diversion. The Freeman Diversion replenishes approximately 68,100 AFY (which is the total yield and includes irrigation

deliveries) to the Oxnard Forebay Basin. United is currently evaluating options at the Freeman Diversion to promote annual fish migration.

6.4. Stormwater

Stormwater collection systems do not currently contribute to water supply for the O-H system.

6.5. Wastewater and Recycled Water

Wastewater generated within the O-H System service area is treated at the wastewater treatment facility owned and operated by the City of Oxnard (Oxnard), which provides secondary treatment. Oxnard completed an Advanced Water Purification Facility (AWPF) in 2009, which has a current capacity to produce approximately 7,000 AFY of advanced treated recycled water.

6.5.1. Recycled Water Coordination

United does not own nor operate any recycled water facilities which would provide service to O-H System users. The City of Oxnard provides wastewater collection, treatment, and disposal for Oxnard's service area, as well as that of PHWA.

United is considering participation as one of the signatories to the Full Advanced Treatment (FAT) Recycled Water Management and Use Agreement between Oxnard and several other agricultural entities in the Oxnard Plain. The Agreement provides for the delivery of recycled water from Oxnard's AWPF when it is available, with Oxnard uses having the highest priority. The FAT Recycled Water Management and Use Agreement would make use of United's Pumping Trough Pipeline and Pleasant Valley Pipeline to deliver advanced treated recycled water from Oxnard's AWPF to agricultural users in the Oxnard Plain. On a temporary basis, Oxnard's recycled water is being delivered via Calleguas Municipal Water District's existing Salinity Management Pipeline to agricultural users until such time as a permanent pipeline is constructed.

Oxnard is also planning to increase its use of recycled water for municipal and industrial (M&I) uses, which would reduce the overall demand for O-H System water. The total demand for M&I uses within Oxnard is 1,475 AFY and it is expected these users would be connected by 2020.

United and Oxnard have previously discussed recycled water storage in the Ferro, Noble, and Rose Basins. Oxnard is now actively pursuing indirect potable reuse with a pilot aquifer storage and recovery well scheduled for construction in 2016. At this time, there are no immediate plans to implement recycled water storage in United's Groundwater Recharge Basins due to the drought and insufficient water in the wells to conduct a tracer study. This condition will persist after the UWMP is adopted. There are also regulatory concerns to be addressed.

With the exception of Oxnard, none of the other agencies supplied by the O-H System have plans to implement a recycled water system.

6.5.2. Wastewater Collection, Treatment and Disposal

This section is not applicable to wholesale agencies.

6.5.2.1. Wastewater Collected Within Service Area

Table 6-2 is not applicable to United.

Table 6-2 Retail: Wastewater Collected Within Service Area in 2015						
☐	There is no wastewater collection system. The supplier will not complete the table below.					
	Percentage of 2015 service area covered by wastewater collection system *(optional)*					
	Percentage of 2015 service area population covered by wastewater collection system *(optional)*					
Wastewater Collection			**Recipient of Collected Wastewater**			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated?	Volume of Wastewater Collected in 2015	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area?	Is WWTP Operation Contracted to a Third Party? *(optional)*
NA						
Total Wastewater Collected from Service Area in 2015:						
NOTES:						

6.5.2.2. Wastewater Treatment and Discharge Within the Service Area

United does not provide wastewater treatment and discharge within its service area. Table 6-3 from the DWR Guidebook applies to suppliers that provide wastewater treatment and is not applicable to United.

Table 6-3 Wholesale: Wastewater Treatment and Discharge Within Service Area in 2015										
☑	Wholesale supplier does not provide supplemental treatment to recycled water it distributes. The supplier will not complete the table below.									
Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number *(optional)*	Method of Disposal	Does This Plant Treat Wastewater Generated Outside the Service Area?	Treatment Level	2015 volumes			
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area
						Total	NA	NA	NA	NA
NOTES:										

6.5.3. Recycled Water System

United does not own nor operate a recycled water system. One of their retailers, the City of Oxnard, constructed the AWPF in 2009 to treat a portion of the secondary effluent from the Oxnard wastewater treatment plant using membrane filtration, reverse osmosis, and ultraviolet/advanced oxidation. This advanced treated recycled water is intended to be used for landscape irrigation within the City of Oxnard and agricultural irrigation outside the City's service area. Ultimately, the City's use of recycled water will reduce the demands on the O-H System.

Oxnard's Recycled Water Backbone System (RWBS) pipelines were constructed in 2011 and will provide recycled water to municipal and industrial users within Oxnard. The *Public Works Integrated Master Plan Recycled Water Project Memorandum 4.1 Background Summary* (Carollo, 2015) provides further information on Oxnard's recycled water facilities.

Oxnard is currently providing recycled water only to the River Ridge Golf Course, which was converted to recycled water in 2015. Conversions of parks, schools, and other landscaped areas will be implemented when funds become available. A map of Oxnard's RWBS pipelines is included as Figure 6-4.

6.5.4. Recycled Water Beneficial Uses

6.5.4.1. Current and Planned Uses of Recycled Water

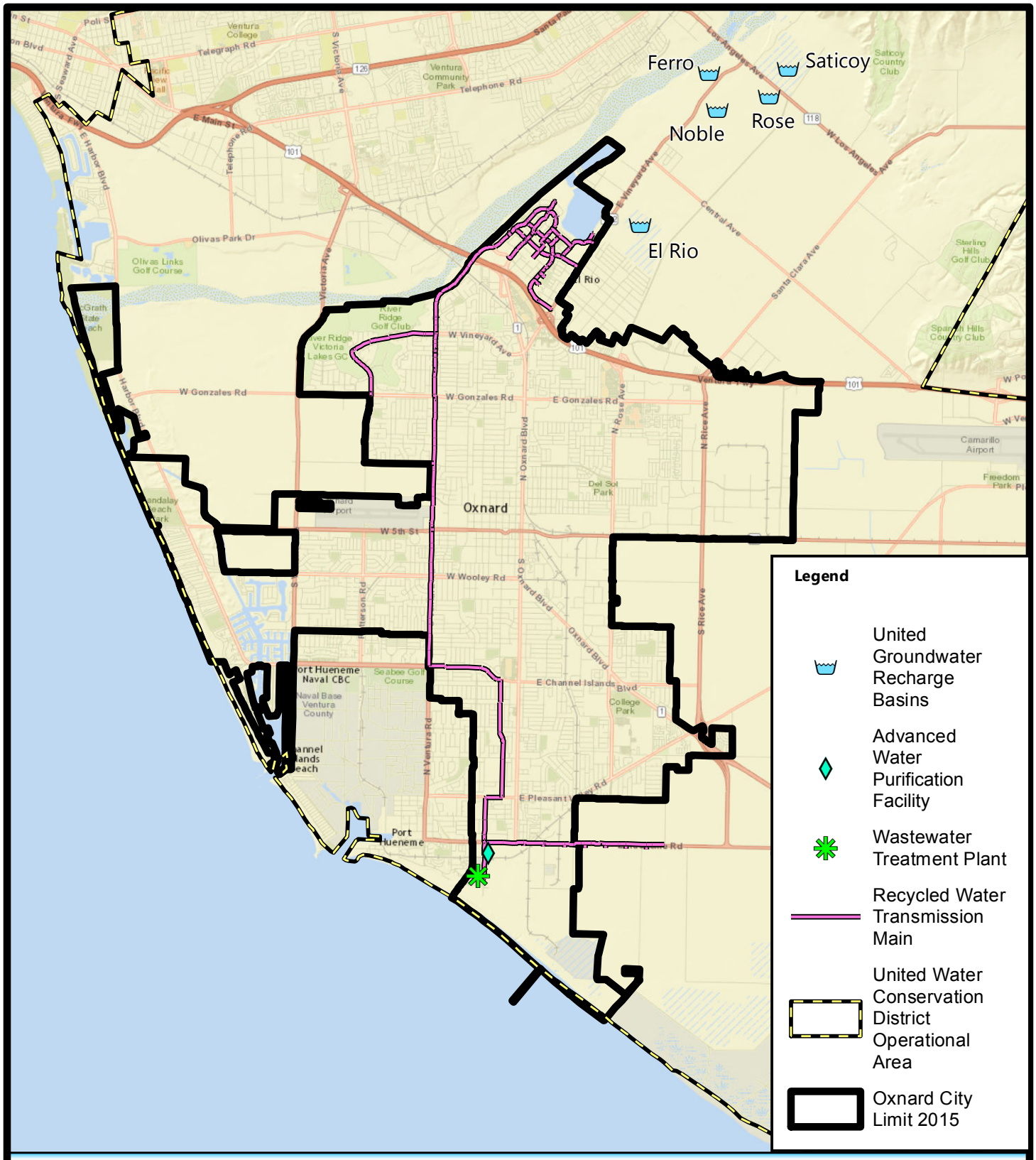
Oxnard's GREAT Program was established to make use of recycled water for landscape and agricultural irrigation. In recent years, Oxnard has also embarked on a pilot program for groundwater recharge with recycled water using an aquifer storage and recovery (ASR) groundwater well. The pilot ASR project is expected to be implemented in 2016.

Currently, the only facility in Oxnard using recycled water is the River Ridge Golf Course. The RiverPark development is expected to come online in 2016. Oxnard will then consider retrofits of schools and parks as funding becomes available. The total estimated recycled water demand for urban irrigation within Oxnard is 1,475 AFY.

Oxnard and United are considering a Full Advanced Treatment Recycled Water Management and Use Agreement with several entities – Pleasant Valley County Water District, Houweling Nurseries Oxnard, Southland Sod, Reiter Brothers, and Southern Pacific Farming – to provide recycled water for agricultural irrigation. These users are located outside Oxnard's service area, in the Oxnard Plain. One of the stipulations in the agreement is these users may receive recycled water at a lower priority than Oxnard's customers. These agricultural customers grow several crops including sod, strawberries, celery, and other row crops and are not served from United's O-H Pipeline.

Table 6-4 Wholesale: Current and Projected Retailers Provided Recycled Water Within Service Area

☑	Recycled water is not directly treated or distributed by the supplier. The supplier will not complete the table below.						
Name of Receiving Supplier or Direct Use by Wholesaler	Level of Treatment	2015	2020	2025	2030	2035	2040 *(opt)*
Total		NA	NA	NA	NA	NA	NA
NOTES:							



Not to Scale

Figure 6-4
City of Oxnard
Recycled Water System

6.5.4.2. Planned Versus Actual Use of Recycled Water

Recycled water was not used nor distributed by United in 2010, nor projected for use or distribution in 2015.

Table 6-5 Wholesale: 2010 UWMP Recycled Water Use Projection Compared to 2015 Actual		
☑	Recycled water was not used or distributed by the supplier in 2010, nor projected for use or distribution in 2015. The wholesale supplier will not complete the table below.	
Name of Receiving Supplier or Direct Use by Wholesaler	2010 Projection for 2015	2015 actual use
Total	NA	NA
NOTES:		

6.5.5. Actions to Encourage and Optimize Future Recycled Water Use

This section applies to retail agencies and is not applicable to United. Likewise, Table 6-6 does not apply to United.

Table 6-6 Retail: Methods to Expand Future Recycled Water Use			
☐	Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.		
	Provide page location of narrative in UWMP		
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use
NA			
		Total	NA
NOTES:			

6.6. Desalinated Water Opportunities

United does not currently utilize desalination technology to supply the O-H System. The *South Oxnard Plain Brackish Water Treatment Feasibility Study* for development of a desalination facility was completed by United and Carollo Engineers in August of 2014. The study indicated a reverse osmosis (RO) desalination facility could be constructed on the South Oxnard Plain and supply water for agricultural use at a cost competitive with imported SWP water with superior quality. While providing a regional source of agricultural supply, this system would not contribute to supply of the O-H System. The Feasibility Study can be found at: http://www.unitedwater.org/images/stories/reports/GW-Conditions-Reports/UWCD%20Desalter%20Feasibility%20Study_Final_Secured%20-%20August%202014.pdf.

6.7. Exchanges or Transfers

In December 2005, United entered into the *Memorandum of Understanding Regarding Pilot Program Between Castaic Lake Water Agency and Casitas Municipal Water District, The City of San Buenaventura, United Water Conservation District Use of Flexible Storage Account, Castaic Lake* (MOU). The MOU allowed the Castaic Lake

Water Agency (CLWA) to utilize the flexible storage allocations of United, the City of Ventura, and Casitas Municipal Water District in Castaic Lake, which is the terminal reservoir of the SWP. CLWA purchased 1,376 AF of SWP water annually from the account of the other agencies which were a party to the MOU. The MOU expires in 2025 by an extension approved by United's Board in 2015.

United is contemplating the initiation of a master planning process to identify additional water supply opportunities. This process may include water supply exchanges and transfers.

6.8. Future Water Projects

As indicated above, United is contemplating the initiation of a master planning process. It is anticipated this process will identify future water supply projects consistent with United's mission and responsibilities. At this time, no specific projects have been identified nor has funding been allocated.

Table 6-7 Wholesale: Expected Future Water Supply Projects or Programs

☑	No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.
☐	Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.
	Provide page location of narrative in the UWMP

Name of Future Projects or Programs	Joint Project with other agencies?		Description *(if needed)*	Planned Implementation Year	Planned for Use in Year Type	Expected Increase in Water Supply to Agency
NOTES:						

6.9. Summary of Existing and Planned Sources

United's existing source of water for the O-H System is groundwater pumped from the Oxnard Plain Groundwater Basin, which is managed by FCGMA. United's Historical Allocation for the O-H System is 14,697 AFY and beginning January 1, 2016, its allocation is 80 percent of this (also referred to as TEA) under Emergency Ordinance E, or 11,757 AFY. The duration of Emergency Ordinance E is unknown at this time, but it is anticipated the allocation will remain at its current TEA amount of 11,757 AFY.

Table 6-8 Wholesale: Water Supplies — Actual (AF)				
Water Supply	Additional Detail on Water Supply	2015		
		Actual Volume	Water Quality	Total Right or Safe Yield *(optional)*
Groundwater		12,124	Drinking Water	
Total		12,124		0
NOTES: Based on Emergency Ordinance E effective 7/1/14, using United's Baseline of 14,697 AFY. Beginning 1/1/15 the allocation was reduced to TEA x 0.85/2, and beginning 7/1/15 the allocation was reduced to TEA x 0.80/2				

Table 6-9 shows the projected water supplies for United to the year 2040.

Table 6-9 Wholesale: Water Supplies — Projected (AF)											
Water Supply	Additional Detail on Water Supply	Projected Water Supply *Report To the Extent Practicable*									
		2020		2025		2030		2035		2040 *(opt)*	
		Reasonably Available Volume	Total Right or Safe Yield *(optional)*	Reasonably Available Volume	Total Right or Safe Yield *(optional)*	Reasonably Available Volume	Total Right or Safe Yield *(optional)*	Reasonably Available Volume	Total Right or Safe Yield *(optional)*	Reasonably Available Volume	Total Right or Safe Yield *(optional)*
Groundwater		11,757		11,757		11,757		11,757		11,757	
Total		11,757	0	11,757	0	11,757	0	11,757	0	11,757	0
NOTES: Assumes United's TEA allocation under Emergency Ordinance E remains in effect. Includes 600 AF for operational and line losses.											

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Chapter 7. Water Supply Reliability

The Act requires urban water suppliers to assess water supply reliability and compare total projected water use with the expected water supply over the next twenty years in five-year increments. The Act also requires an assessment for a single dry year and multiple dry years. This chapter presents the reliability assessment for United's O-H System service area.

It is the goal of United and its retail water purveyors to deliver a reliable and high quality water supply for their customers, even during dry periods. Based on conservative water supply and demand assumptions over the next 25 years, in combination with conservation of non-essential demand during certain dry years, the UWMP successfully achieves this goal.

7.1. Constraints on Water Sources

The Oxnard Plain Groundwater Basin currently provides a reliable source of water for the O-H System except during the severest droughts. United also has a contractual right to SWP water which can be released from either Pyramid Lake or Castaic Lake and diverted at the Freeman Diversion. Unfortunately, this supplemental source is costly and significant water is lost to infiltration, evaporation, and consumptive use by vegetation during its delivery in the Santa Clara River. The current contract for SWP water expires in 2035 and is under negotiation.

United is currently contemplating a master planning process to, among other elements, identify potential supplemental water sources.

7.1.1. Water Quality

This section provides a general description of the water quality of the supplies delivered by United, aquifer protection, and a discussion of potential water quality impacts on the reliability of these supplies.

United is committed to providing its customers with high quality water meeting all federal and state primary drinking water standards. Some contaminants are naturally-occurring minerals. In some cases, the presence of animals or human activity can contribute to the constituents in the source waters. The following subsections address constituents reported in the 2010 Santa Clara River Watershed Sanitary Survey Update (available at http://www.unitedwater.org/images/stories/reports/Water-Quality/Sanitary_Survey_Update_2010_Final.pdf) impacting water quality. The 2015 Consumer Confidence Report (CCR) was made available April 1, 2016.

Nitrate. Nitrate in drinking water at levels above 45 mg/L is a health risk for infants less than six months of age due to the possibility of methemoglobinemia. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. Studies by United indicate nitrate is contributed to groundwater by land uses within the Oxnard Plain Forebay and the likely sources are local septic systems and the application of nitrogen fertilizers. Local septic systems recently have been connected to sewage collection systems. Nitrates are tested weekly for the shallow O-H System wells. In 2015, average blended (UAS and LAS wells) concentration of iron and manganese was 40 micrograms per liter (ug/L) and 24 ug/L, respectively. The MCL for nitrate as nitrogen is 10 mg/L. United is currently addressing nitrate issues at Well 15 by increasing the depth of the well by 40 feet. Well 4 is being replaced by a new, deeper Well 18.

Pathogens. Microbial contaminants, such as viruses and bacteria, can be naturally occurring or result from urban storm water runoff, sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. Previously, the O-H System was determined to be groundwater under the direct influence of surface water by the Division of Drinking Water (DDW), and United implemented an enhanced disinfection system to maintain the water quality delivered to its purveyors. Water is tested regularly for total coliform bacteria and

fecal coliform. No total or fecal coliform were detected in the O-H System in 2014. The bacteriological tests met federal and state requirements. Additional microbiological tests for the water-borne parasites Cryptosporidium parvum and Giardia lamblia were performed on the raw water, and none were detected.

Radon. Radon is a naturally-occurring radioactive gas that is tasteless, odorless, and invisible, and is ubiquitous in the United States. It is found in indoor and outdoor air and in drinking water, although drinking water is generally a small contributor to radon exposure. Radon is a known human carcinogen; however, there is currently no Federal or State MCL for radon. In 2015, radon was detected in the O-H System at average levels of 313.75 picocuries per liter.

Iron and Manganese. Iron and manganese are usually natural-occurring contaminants that enter the groundwater from leaching of natural mineral deposits. Iron and manganese have secondary MCLs which are established to regulate the aesthetic quality of water. Iron and manganese can also affect the efficiency of membrane treatment which is increasingly being used by the purveyors of the O-H System. In 2015, average blended concentration of iron and manganese was 40 mg/L and 24 mg/L, respectively. The O-H System currently operates under a one-year waiver from DDW. United is currently studying the feasibility of iron and manganese treatment for the O-H System. United will seek approval from O-H System stakeholders to implement iron and manganese treatment in the next one to two years.

Groundwater Contamination

Potential risks to United's groundwater supplies include groundwater contamination caused by spillage of agricultural chemicals, runoff from industrial sites, spillage from tanker trucks carrying hazardous chemicals, or other accidents. Generally, United would develop a response plan on a case-by-case basis depending on the severity of the risk. In a previous methyl tertiary butyl ether (MTBE) contamination event, United was closely involved in oversight of the cleanup and increased the frequency of contaminant monitoring at its wells. However, if a severe groundwater contamination event were to occur, water supplies for the O-H System could be adversely affected.

Aquifer Protection

As described in Chapter 6, groundwater extractions from the Oxnard Plain Groundwater Basin are managed by FCGMA. As the designated Groundwater Sustainability Agency, FCGMA has the primary responsibility for aquifer protection and is currently preparing a Groundwater Sustainability Plan (GSP). FCGMA has the legal authority to implement the GSP when adopted. United supports the FCGMA aquifer protection efforts through the preparation of an annual Groundwater Conditions Report, which analyzes the water balance in the Oxnard Plain Groundwater Basin, as well as the other basins within United's service area. United also prepares a biennial Groundwater and Surface Water Conditions Report, which summarizes hydrogeology, hydrologic conditions, water levels, surface water flows, groundwater extractions, and water quality of groundwater basins and surface waters within United's service area. It also discusses the key issues facing these hydrologic features.

Water Quality Impacts on Reliability

The primary factors affecting the availability of groundwater are sufficient source capacity (wells and pumps), sustainability of the groundwater resource to meet pumping demand on a renewable basis, and protection of groundwater sources (wells) from natural or anthropogenic contamination, or provisions for treatment in the event of contamination. The development of sufficient source water capacity is an ongoing concern to United. Several wells are currently scheduled for replacement due to age, condition, or high nitrate concerns. Aquifer protection is discussed in the previous section and United is currently studying iron and manganese treatment for the O-H System.

In general, the wells with high nitrate concentrations are shallower than the wells with high iron and manganese concentrations. During severe drought conditions, it may not be possible to blend high nitrate concentrations to acceptable levels, thereby impacting water supply reliability. United could develop a reliable supply of low nitrate groundwater if treatment were implemented without creating water quality issues

associated with iron and manganese. This would improve the water supply reliability of the O-H System. Accordingly, water quality is not expected to impact water supply reliability for the O-H System.

7.2. Reliability by Type of Year

7.2.1. Types of Years

In order to determine the water supply reliability of United's O-H System, an assessment was developed that includes a comparison of the total projected water demand with the supply available for the following conditions: (1) normal/average water year, (2) single-dry water year, and (3) three-year dry cycle. The basis of the water supply and demand assessment is summarized in Table 7-1. The results for the assessment for each of these three conditions are described in the following sections.

Table 7-1 Wholesale: Basis of Water Year Data

Year Type	Base Year	Available Supplies if Year Type Repeats	
		Agency may provide volume only, percent only, or both	
		Volume Available (AF)	% of Average Supply
Average Year	2003-2012	14,697	100%
Single-Dry Year	2015	11,757	80%
Multiple-Dry Years 1st Year	2015	11,757	80%
Multiple-Dry Years 2nd Year	2015	11,757	80%
Multiple-Dry Years 3rd Year			

NOTES: Average Year represents baseline years for TEA. Single and multiple dry years represent TEA under Emergency Ordinance E, including 600 AF for operational and line losses.

7.2.2. Agencies with Multiple Sources of Water

United's O-H System has only one source of water.

7.3. Supply and Demand Assessment

As described in Chapter 6, United supplies groundwater to the O-H System from 13 wells in the Oxnard Plain Groundwater Basin. Groundwater extractions are managed by the FCGMA through the issuance of groundwater extraction allocations. When FCGMA enacted Emergency Ordinance E and Resolution 2013-03, extraction allocations were reduced by up to 20 percent. United's water supplies for the O-H System are limited by these allocations without incurring significant financial penalties. Because United establishes allocations to each of its purveyors, purveyor demands are also limited to their respective allocations without incurring significant financial penalties.

7.3.1. Normal/Average Water Year Assessment

Current and future water demands for the O-H System are discussed in Chapter 4 and current and future water supplies are described in Chapter 6. Conservative assumptions were utilized concerning availability of supplies. The TEA baseline period of 2003-2012 was used for the average/normal year assessment in Table 7-1; however the current allocation of 11,757 AF under Emergency Ordinance E has been used in Tables 7-2 through 7-4 as this is considered the new normal supply for all types of water year. During a normal/average water year, it is projected United will be able to meet all of its O-H System purveyors' demands through 2040.

Table 7-2 Wholesale: Normal Year Supply and Demand Comparison (AF)

	2020	2025	2030	2035	2040 *(Opt)*
Supply totals *(from Table 6-9)*	11,757	11,757	11,757	11,757	11,757
Demand totals *(from Table 4-3)*	11,757	11,757	11,757	11,757	11,757
Difference	0	0	0	0	0
NOTES:					

7.3.2. Single-Dry Year Water Assessment

The FCGMA is not anticipated to further reduce United's TEA. If the FCGMA were to reduce United's TEA, purveyors would be expected to reduce their consumption and obtain supplies from other sources available to them. Accordingly, as shown in Table 7-3, it is projected United will be able to meet all of its purveyor demands for the O-H System during a single-dry year. In future single-dry years through 2040, United should have an adequate extraction allocation from FCGMA to meet customer demands.

Table 7-3 Wholesale: Single Dry Year Supply and Demand Comparison (AF)

	2020	2025	2030	2035	2040
Supply totals	11,757	11,757	11,757	11,757	11,757
Demand totals	11,757	11,757	11,757	11,757	11,757
Difference	0	0	0	0	0
NOTES:					

7.3.3. Multiple-Dry Year Water Assessment

The FCGMA is not anticipated to further reduce United's TEA. If the FCGMA were to reduce United's TEA, purveyors would be expected to reduce their consumption and obtain supplies from other sources available to them. In future multiple-dry years, United is anticipated to reduce its O-H System purveyor allocations

accordingly. As indicated in Table 7-4, the multiple-dry year assessment resulted in sufficient water supply to meet the reduced water demands through 2040.

Table 7-4 Wholesale: Multiple Dry Years Supply and Demand Comparison (AF)

		2020	2025	2030	2035	2040
First year	Supply totals	11,757	11,757	11,757	11,757	11,757
	Demand totals	11,757	11,757	11,757	11,757	11,757
	Difference	0	0	0	0	0
Second year	Supply totals	11,757	11,757	11,757	11,757	11,757
	Demand totals	11,757	11,757	11,757	11,757	11,757
	Difference	0	0	0	0	0
Third year	Supply totals	11,757	11,757	11,757	11,757	11,757
	Demand totals	11,757	11,757	11,757	11,757	11,757
	Difference	0	0	0	0	0
NOTES:						

7.4. Regional Supply Reliability

Groundwater. The Sustainable Groundwater Management Act (SGMA) of 2014 requires the preparation and adoption of a Groundwater Sustainability Plan (GSP) by 2020. United is actively participating in the Technical Advisory Committee, which is providing input on the GSP for the groundwater basins upon which United relies. Upon completion of the GSP, United will reevaluate its options for additional water supply sources for the O-H System. As the basins are in critical overdraft condition, the GSP will be a guiding document for the region and the management of its groundwater.

Imported Water. The largest purveyors relying on the O-H System also receive water from the Calleguas Municipal Water District (CMWD), which is a member agency of the Metropolitan Water District of Southern California (MWD). The O-H System purveyors purchase imported surface water from CMWD, which in turn purchases SWP water from MWD. Imported water supply originates in Northern California and is conveyed over 500 miles to Southern California through the SWP's system of reservoirs, aqueducts, and pump stations. Water is filtered and disinfected at MWD's Joseph Jensen Filtration Facility in Granada Hills. CMWD receives the treated water via MWD's West Valley Feeder and CMWD's three-mile-long tunnel through the Santa Susana Mountains. CMWD either stores the treated water in Lake Bard or feeds the water directly to the CMWD Springville Reservoir near Camarillo. Although CMWD has served the needs of its members, without fail, except for a few days following the 1994 Northridge Earthquake, MWD and CMWD have implemented a Water Supply Allocation Plan which limits the quantity of water its purveyors can receive without significant financial penalties. Both MWD and CMWD are undertaking a variety of programs to increase the reliability of imported water deliveries. Both MWD and CMWD, due to their historical performance and scope of operations, have provided and will continue to provide a reliable source of water to the largest O-H System purveyors.

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Chapter 8. Water Shortage Contingency Planning

The Act requires urban water suppliers to identify stages of actions to be taken in response to water supply shortages, including up to a 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.

8.1. Stages of Action

As described previously, United's groundwater allocation is subject to the FCGMA. The O-H System has no other sources of supply other than groundwater, so United's Water Shortage Contingency Plan (WSCP) is dependent on actions taken by the FCGMA. Table 8-1 describes the potential stages of a WSCP based on reductions in allocation from the FCGMA.

Table 8-1 Wholesale
Stages of Water Storage Contingency Plan

Stage	Complete Both	
	Percent Supply Reduction[1] *Numerical value as a percentage*	Water Supply Condition (*Narrative description*)
1	10%	10% reduction in groundwater allocation imposed by the FCGMA
2	15%	15% reduction in groundwater allocation imposed by the FCGMA
3	20%	20% reduction in groundwater allocation imposed by the FCGMA
4	50%	50% reduction in groundwater allocation imposed by the FCGMA

[1] *One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.*

NOTES:

8.2. Mandatory Prohibitions

As a wholesale supplier, this section is not applicable to United. Table 8-2 is not applicable to United.

Table 8-2 Retail Only: Restrictions and Prohibitions on End Uses			
Stage	Restrictions and Prohibitions on End Users	Additional Explanation or Reference *(optional)*	Penalty, Charge, or Other Enforcement?
NA			
NOTES:			

8.3. Penalties, Charges, Other Enforcement

As a wholesale supplier, this section is not applicable to United.

8.4. Consumption Reduction Methods

In the event of reductions from the FCGMA, United informs their retail agencies of the reductions, their effective date, and each retailer's reduced allocation. Each retailer is responsible for securing additional supplies from other sources. United invoices each user on a monthly basis, so the users are aware of their current usage and how much allocation is remaining.

If a retailer exceeds their allocation, United and FCGMA impose significant financial penalties for the exceedance. This encourages the retailers to remain within their allocation.

Table 8-3 is for retail agencies and does not apply to United.

Table 8-3 Retail Only: Stages of Water Shortage Contingency Plan - Consumption Reduction Methods		
Stage	Consumption Reduction Methods by Water Supplier	Additional Explanation or Reference *(optional)*
NA		
NOTES:		

8.5. Determining Water Shortage Reductions

All turnouts with retailers and with the two retail customers are metered. United can determine their actual use based on meter readings. Similarly, each groundwater well and the treatment plant discharge pipeline are metered and read on a monthly basis.

8.6. Revenue and Expenditure Impacts

United's current pricing structure for O-H System users includes the following elements:

- Variable rate, based on usage (per AF)
- Marginal rate based on usage (per AF)
- Fixed monthly costs

The inclusion of “fixed” charges in the pricing structure allows United to continue receiving revenue for maintenance of its facilities even when groundwater allocations are reduced by the FCGMA and United’s users receive less groundwater. The variable and marginal rates are based on usage, however, so this amount will decrease if usage decreases.

8.6.1. Drought Rate Structures and Surcharges

This section is for retail agencies and is not applicable to United.

8.6.2. Use of Financial Reserves

United’s Board adopted a reserve policy effective July 1, 2015 to maintain minimum financial reserves at levels sufficient to absorb unpredictable revenue shortfalls and to ensure fiscally prudent/desired cash flow levels. Reserves for the O-H Pipeline Fund are set at $750,000, which is increased annually by the Consumer Price Index. This reserve includes $250,000 for annual rate stabilization. The policy also states United and the O-H System contractors agree to meet and confer about developing a plan, which may include but not be limited to temporary rate increases, surcharges, capital contributions, or other reasonable methods that will restore the reserves, in the event the reserves are depleted by more than thirty percent in any fiscal year.

8.6.3. Other Measures

Other measures United may consider to overcome impacts to revenues and expenditures are the delay of capital improvements and reduction of expenditures.

8.7. Resolution or Ordinance

At their meeting on March 12, 2014, United’s Board of Directors adopted Resolution No. 2014-01, which is provided in Appendix E. Resolution No. 2014-01 declares the existence of drought conditions and sets the policies directing specific actions to be taken. Resolution No. 2014-01 also prioritizes the use of surface water diverted from the Freeman Diversion, with compliance with drinking water standards for nitrate as the highest priority.

8.8. Catastrophic Supply Interruption

In the event of a catastrophic supply interruption, United will implement their Water System Emergency Response Plan (this document is considered sensitive and is not available to the public).

During an earthquake at the El Rio Treatment Plant, the disinfection facilities, which contain chlorine and ammonia, will be inspected first and the remaining facilities checked for damage once the disinfection facilities are secure. When the 1994 Northridge Earthquake interrupted Calleguas MWD deliveries, the O-H System was the primary source of water for Oxnard and PHWA

If a rupture on the O-H Pipeline occurs, the operators will take the necessary steps to isolate the leak and have it repaired.

The El Rio Treatment Plant has emergency generators in the event of a regional power outage.

Additional potential supply interruptions include groundwater contamination, sewage spills from wastewater treatment plants located upstream along the Santa Clara River, and petroleum spills from oil pipelines or overturned trucks. In these cases, United communicates with emergency personnel to shut down/isolate the O-H system and notify customers of the interruption in service.

8.9. Minimum Supply Next Three Years

Table 8-4 shows the minimum supply available to United’s O-H System for the next three years. FCGMA is in the process of preparing their Sustainable Groundwater Management Plan and these amounts are subject to change. The Sustainable Groundwater Management Plan is expected to be completed by December 2016.

Table 8-4 Wholesale: Minimum Supply Next Three Years (AF)			
	2016	2017	2018
Available Water Supply	11,757	11,757	11,757
NOTES: Includes 600 AF for operational and line losses.			

Chapter 9. Demand Management Measures

This section describes United's Demand Management Measures.

9.1. Demand Management Measures for Wholesale Agencies

As a wholesale agency, United is required to comply with four demand management measures: 1) metering, 2) public education and outreach, 3) water conservation program coordination and staffing support and 4) other demand management measures. United must also describe their asset management program and supplier assistance programs.

9.1.1. Metering

United's O-H System is fully metered, as well as United's groundwater wells and the discharge pipeline from the treatment facility. Meters are changed out as they age as part of United's maintenance program. A regular calibration program is in place to ensure meters are operating within acceptable ranges of accuracy for the specific type of meter.

9.1.2. Public Education and Outreach

United actively participates in regional public education and outreach programs, including an annual water symposium, tours of regional water facilities, and presentations to interested stakeholders. The budget for fiscal year 2016-2017 and beyond will include specific line items for public outreach, and United intends to increase its efforts in this area.

United does not have a structured outreach program at this time. United will assist its retail agencies upon request by distributing water conservation materials for programs offered by the retailers.

9.1.3. Water Conservation Program Coordination and Staffing Support

United does not employ a full- or part-time Water Conservation Coordinator, but rather the duties are shared amongst several staff members including planners, engineers, and the policy analyst. Tours are staffed by the Operations Division staff as they are the most knowledgeable about the facilities. United's largest customers employ conservation staff.

9.1.4. Other Demand Management Measures

There are no other demand management measures to report for United.

9.1.5. Asset Management

United's existing operations and maintenance activities for the O-H System include regular replacement of anodes, a valve exercise program, replacement of blind flanges, and meter change-outs. United also has a well replacement program. Every year, Southern California Edison performs efficiency tests on the well pumps and poor performing pumps are repaired or replaced. United expects to have a computerized maintenance management system (CMMS) implemented within the next five years.

9.1.6. Wholesale Supplier Assistance Programs

United has relied on its retailers to implement their conservation programs and will provide assistance when requested.

9.2. Demand Management Measures for Retail Agencies

This section is for retailers and does not apply to United.

9.3. Implementation over Past Five Years

United has included budget line items for their meter replacement program of approximately $10,000 annually. As a wholesale supplier, United does not actively implement a water conservation program, but is supportive and cooperative of the efforts of its retail agencies.

9.4. Planned Implementation to Achieve Water Use Targets

This section is for retailers and does not apply to United.

Chapter 10. Plan Adoption, Submittal, Implementation

10.1. Inclusion of All 2015 Data

All reported supply, demand and planning data for the year 2015 is based on a complete data record for the 2015 calendar year.

10.2. Notice of Public Hearing

A public meeting was held prior to the adoption of United's O-H System UWMP. The public meeting provided a platform for cities, counties, and members of the public to comment on the UWMP prior to its adoption. Notice of the public hearing was given to cities and counties within which water is supplied and to the general public. At least 60 days prior to the public hearing, cities and counties were also be given a 60-Day Notice that United was reviewing and considering amendments to the UWMP. Copies of all public notices have been included in Appendix A.

10.2.1. Notice to Cities and Counties

Table 10-1 provides a summary of cities and counties that were provided with both the 60-Day Notice and Notice of Public Hearing.

Table 10-1 Wholesale: Notification to Cities and Counties (select one)		
☐	Supplier has notified more than 10 cities or counties in accordance with CWC 10621 (b) and 10642. **Completion of the table below is not required. Provide a separate list of the cities and counties that were notified.**	
	Provide the page or location of this list in the UWMP.	
☑	Supplier has notified 10 or fewer cities or counties. **Complete the table below.**	
City Name	60 Day Notice	Notice of Public Hearing
Oxnard	☑	☑
Port Hueneme	☑	☑
Channel Islands Beach	☑	☑
County Name	60 Day Notice	Notice of Public Hearing
Ventura County	☑	☑
	☐	☐
	☐	☐
NOTES:		

10.2.2. Notice to the Public

Prior to holding the public hearing and adoption meeting for this UWMP, two Notices of Public Hearing were published in a local newspaper, with at least five intervening days between each notice. Copies of the public notices are included in Appendix B.

10.3. Public Hearing and Adoption

A public meeting was held at Santa Paula, California on June 8, 2016 to receive public comments, make any final amendments, and adopt this UWMP.

10.3.1. Adoption

A copy of the Board Adoption Resolution for this UWMP is included in Appendix C.

10.4. Plan Submittal

Within 30 days of being adopted, copies of the 2015 UWMP for the O-H System were sent to the DWR, the California State Library, and to any city or county with which water gets exchanged or transferred.

10.4.1. Submitting a UWMP to DWR

Copies of the 2015 UWMP for the O-H System were sent electronically to the DWR.

10.4.2. Electronic Submittal

On June 28, 2016 an electronic copy of this 2015 UWMP and associated tables were uploaded to the DWR WUEdata website at: http://wuedata.water.ca.gov.secure/

10.4.3. Submitting UWMP to the California State Library

A CD of this UWMP was submitted to the California State Library within 30 days of the adoption date.

10.4.4. Submitting UWMP to the Cities and Counties

Within 30 days of the adoption of this UWMP, copies of the 2015 UWMP for the O-H System were submitted electronically to Ventura County, Oxnard, Port Hueneme Water Agency, and the mutual water companies.

10.5. Public Availability

The adopted 2015 UWMP for the O-H System has been made publicly available on the UWCD website at: http://www.unitedwater.org/reports-5/water-supply

10.6. Amending an Adopted UWMP

Any amendments to this 2015 UWMP for the O-H System require that the same public notification and adoption process be followed as was used in the development of the UWMP. County, City, DWR, and California State Library submittals of the amended UWMP must be completed within 30 days of adoption.

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APPENDIX A

Notices to Agencies

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Mr. Mike Kiwitt
Cypress Mutual Water
P O Box 6034
Oxnard, CA 93031-6034

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Mr Kiwitt:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

UWCD has hired MNS Engineers Inc. (MNS) to prepare an update to the 2010 UWMP. You may be contacted by MNS for information related to this effort and your participation is greatly appreciated. The first draft is scheduled for completion in February 2016 and the public draft in March 2016. The public draft will be available for inspection on UWCD's web site (www.unitedwater.org) following completion. A public hearing will be scheduled in June 2016 to consider public comments, and discuss and consider adoption of the 2015 UWMP. All interested parties are invited to attend.

If you have any questions, please contact Robert Richardson, Associate Engineer, at (805) 317-8982 or robertr@unitedwater.org.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Ms. Rosa Tellez
Dempsey Road Mutual Water
2265 Samuel Avenue
Oxnard, CA 93033 6216

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Ms. Tellez:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

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If you have any questions, please contact Robert Richardson, Associate Engineer, at (805) 317-8982 or robertr@unitedwater.org.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Mr. Kevin Watson
City of Oxnard
251 S Hayes Avenue
Oxnard, CA 93030

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Mr. Watson:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

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If you have any questions, please contact Robert Richardson, Associate Engineer, at (805) 317-8982 or robertr@unitedwater.org.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Mr. Steve Hickox
Port Hueneme Water Agency
250 N Ventura Road
Port Hueneme, CA 93041

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Mr. Hickox:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

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If you have any questions, please contact Robert Richardson, Associate Engineer, at (805) 317-8982 or robertr@unitedwater.org.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Mr. Charles Fichtner
Rio School District
2500 Vineyard Avenue
Oxnard, CA 93036

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Mr. Fichtner:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

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If you have any questions, please contact Robert Richardson, Associate Engineer, at (805) 317-8982 or robertr@unitedwater.org.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Ms. Rosalinda Romo
Saviers Road Mutual Water
Post Office Box 64
Oxnard, CA 93032

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Ms. Romo:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

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If you have any questions, please contact Robert Richardson, Associate Engineer, at (805) 317-8982 or robertr@unitedwater.org.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Ms. Alicia Thompson
USNCBC
c/o Port Hueneme Water Agency
250 N Ventura Road
Port Hueneme, CA 93041

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Ms. Thompson:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

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If you have any questions, please contact Robert Richardson, Associate Engineer, at (805) 317-8982 or robertr@unitedwater.org.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Mr. Jim Burke
Vineyard Avenue Estates
Post Office Box 5065
Oxnard, CA 93030

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Mr. Burke:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

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If you have any questions, please contact Robert Richardson, Associate Engineer, at (805) 317-8982 or robertr@unitedwater.org.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Mr. Rick Viergutz
Fox Canyon Groundwater Management Agency
800 South Victoria Avenue
Ventura, CA 93009-1610

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Mr. Viergutz:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

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Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Mr. Frank Brommenschenkle
Frank B. & Associates
134 Davis Street
Santa Paula, CA 93060

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Mr. Brommenschenkle:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

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Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Mr. Jared Bouchard
Channel Islands Beach Community Services District
353 Santa Monica Blvd.
Channel Islands Beach, CA 93035

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Mr. Bouchard:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

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Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water Since 1927"

November 9, 2015

Ms. Susan Mulligan
Calleguas Municipal Water District
2100 E Olsen Road
Thousand Oaks, CA 91360-6800

Subject: Notice of Preparation for United Water Conservation District 2015 Urban Water Management Plan Update for the Oxnard-Hueneme Pipeline System

Dear Ms. Mulligan:

In accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 to 10657), the United Water Conservation District (UWCD) is required to update its Urban Water Management Plan (UWMP) every five years as it relates to potable water supply. UWCD's last UWMP was prepared by Milner-Villa Consulting and was adopted by the Board on June 8, 2011.

UWCD has hired MNS Engineers Inc. (MNS) to prepare an update to the 2010 UWMP. You may be contacted by MNS for information related to this effort and your participation is greatly appreciated. The first draft is scheduled for completion in February 2016 and the public draft in March 2016. The public draft will be available for inspection on UWCD's web site (www.unitedwater.org) following completion. A public hearing will be scheduled in June 2016 to consider public comments, and discuss and consider adoption of the 2015 UWMP. All interested parties are invited to attend.

If you have any questions, please contact Robert Richardson, Associate Engineer, at (805) 317-8982 or robertr@unitedwater.org.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Kiwitt
Cypress Mutual Water
PO Box 6034
Oxnard, CA 93031 6034

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Kiwitt:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

UWCD retained the services of MNS Engineers Inc. to prepare an update to the 2010 UWMP that was adopted by the Board of Directors on June 8, 2011. The draft 2015 UWMP is now available for review on the UWCD website at http://www.unitedwater.org/images/stories/reports/Water-Supply/2015_UWMP_Draft_2016-03-25.pdf.

A public hearing is tentatively scheduled for June 8, 2016 to receive public comments and consider adoption of the 2015 UWMP. All interested parties are invited to attend.

For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Ms. Tellez
Dempsey Road Mutual Water
2265 Samuel Avenue
Oxnard, CA 93033 6216

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Ms. Tellez:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

UWCD retained the services of MNS Engineers Inc. to prepare an update to the 2010 UWMP that was adopted by the Board of Directors on June 8, 2011. The draft 2015 UWMP is now available for review on the UWCD website at http://www.unitedwater.org/images/stories/reports/Water-Supply/2015_UWMP_Draft_2016-03-25.pdf.

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For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Castro
City of Oxnard
251 S Hayes Avenue
Oxnard, CA 93030

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Castro:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

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A public hearing is tentatively scheduled for June 8, 2016 to receive public comments and consider adoption of the 2015 UWMP. All interested parties are invited to attend.

For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Hickox
Port Hueneme Water Agency
250 N Ventura Road
Port Hueneme, CA 93041

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Hickox:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

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For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Fichtner
Rio School District
2500 Vineyard Avenue
Oxnard, CA 93036

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Fichtner:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

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For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Ms. Romo
Saviers Road Mutual Water
PO BOX 64
Oxnard, CA 93032

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Ms. Romo:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

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For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Ms. Thompson
USNCBC
1205 Mills Road, Buildling 850
Port Hueneme, CA 93043

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Ms. Thompson:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

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Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Eranio
Vineyard Avenue Estates
PO BOX 5065
Oxnard, CA 93030

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Eranio:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

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For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Viergutz
Fox Canyon Groundwater Management Agency
800 South Victoria Avenue
Ventura, CA 93009-1610

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Viergutz:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

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Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Brommenschenkle
Frank B. & Associates
134 Davis Street
Santa Paula, CA 93060

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Brommenschenkle:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

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For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Bouchard
Channel Islands Beach Community Services District
353 Santa Monica Dr
Channel Islands Beach, CA 93035

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Bouchard:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

UWCD retained the services of MNS Engineers Inc. to prepare an update to the 2010 UWMP that was adopted by the Board of Directors on June 8, 2011. The draft 2015 UWMP is now available for review on the UWCD website at http://www.unitedwater.org/images/stories/reports/Water-Supply/2015_UWMP_Draft_2016-03-25.pdf.

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For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Ms. Mulligan
Calleguas Mutual Water District
2100 E. Olsen Road
Thousand Oaks, CA 91360-6800

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Ms. Mulligan:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

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Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Etchandy
EH Land Company
P O Box 5770
Oxnard, CA 93031 6034

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Etchandy:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

UWCD retained the services of MNS Engineers Inc. to prepare an update to the 2010 UWMP that was adopted by the Board of Directors on June 8, 2011. The draft 2015 UWMP is now available for review on the UWCD website at http://www.unitedwater.org/images/stories/reports/Water-Supply/2015_UWMP_Draft_2016-03-25.pdf.

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For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Takaichi
Water Consultancy
3585 Maple Street, Suite 250
Ventura, CA 93003

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Takaichi:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

UWCD retained the services of MNS Engineers Inc. to prepare an update to the 2010 UWMP that was adopted by the Board of Directors on June 8, 2011. The draft 2015 UWMP is now available for review on the UWCD website at http://www.unitedwater.org/images/stories/reports/Water-Supply/2015_UWMP_Draft_2016-03-25.pdf.

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For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Mr. Theisen
City of Port Hueneme - Public Works
700 E Hueneme Road, Building B
Port Hueneme, CA 93041

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Mr. Theisen:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

UWCD retained the services of MNS Engineers Inc. to prepare an update to the 2010 UWMP that was adopted by the Board of Directors on June 8, 2011. The draft 2015 UWMP is now available for review on the UWCD website at http://www.unitedwater.org/images/stories/reports/Water-Supply/2015_UWMP_Draft_2016-03-25.pdf.

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For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on May 25, 2016.

Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Ms. Rodriquez
County of Ventura - Resource Management Agency
800 S Victoria Avenue
Ventura, CA 93009-1610

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Ms. Rodriquez:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

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Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

UNITED WATER CONSERVATION DISTRICT
"Conserving Water since 1927"

March 24, 2016

Ms. Ozdy
LAFCO
800 S Victoria Avenue, L#1850
Ventura CA 9300901610

Subject: Notice of Public Comment Period for Draft 2015 Urban Water Management Plan

Dear Ms. Ozdy:

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) and invites all stakeholders and the public to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code (Sections 10610 to 10657).

UWCD retained the services of MNS Engineers Inc. to prepare an update to the 2010 UWMP that was adopted by the Board of Directors on June 8, 2011. The draft 2015 UWMP is now available for review on the UWCD website at http://www.unitedwater.org/images/stories/reports/Water-Supply/2015_UWMP_Draft_2016-03-25.pdf.

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Sincerely,

James D. Grisham, P.E.
Engineering Manager

cc: Robert Richardson, P.E., Associate Engineer, UWCD
Julia Aranda, MNS Engineers

APPENDIX B

Public Notice

VENTURA COUNTY STAR

> Ad Proof

Sales Rep: Maria Rodriguez (V9104) Phone: (805) 437-0352 Email: maria.rodriguez@vcstar.com

> Account Information

Date: 03/22/16

Account Number: 272348 (V19140)

Company Name: UNITED WATER CONSERV/LEGALS

Contact Name:

Email:

Address: 106 N 8TH ST, SANTA PAULA, CA, 93060

Phone: (805) 525-4431 Fax: (805) 525-2661

> Insertion Information

This is a proof of your ad scheduled to run on the dates indicated below.

Please confirm placement prior to deadline by contacting your account rep at (805) 437-0352 .

Ad Id: 1005517 P.O. Number: UWMP Total Cost: $113.08

Tag Line: NOTICE OF PUBLIC COMMENT PERIOD The

Start Date: 03/25/16 Stop Date: 03/25/16

Number of Times: 1 Class: 16250 - Public Notices

Publications: VC-Ventura County Star, VC-Internet-vcstar.com

> Ad Proof

I agree this ad is accurate and as ordered.

NOTICE OF PUBLIC COMMENT PERIOD

The United Water Conservation District (UWCD) is updating its Urban Water Management Plan (UWMP) for 2015 and invites you to participate in the process. The UWMP is a long-term water resource planning document required for all Urban Water Suppliers by the California Water Code. The draft 2015 UWMP is available for review by visiting UWCD's website at www.unitedwater.org.

For questions concerning the draft UWMP, please contact Robert Richardson, Associate Engineer at (805) 317-8982 or robertr@unitedwater.org. Written comments are requested by the close of business on **May 25, 2016**. Please send written comments to:

Urban Water Management Plan Coordinator
c/o Robert Richardson
United Water Conservation District
106 N 8th Street
Santa Paula, CA 93060
Publish: March 25, 2016 Ad No.1005517

APPENDIX C

Adoption Resolution No. 2016-06

RESOLUTION 2016-06

A RESOLUTION OF THE BOARD OF DIRECTORS OF UNITED WATER CONSERVATION DISTRICT ADOPTING THE DISTRICT'S 2015 URBAN WATER MANAGEMENT PLAN FOR THE OXNARD-HUENEME PIPELINE SYSTEM

WHEREAS, Section 10610 of the Water Code of the State of California as amended by recent legislation requires the urban wholesale water suppliers to prepare an Urban Water Management Plan and update it every five years: and

WHEREAS, United Water Conservation District as a wholesale supplier of water to the Oxnard-Hueneme Pipeline (OHP) System falls under this requirement;

WHEREAS, the next revision of its Urban Water Management Plan is due by July 1, 2016: and;

WHEREAS, the District's revised 2015 Urban Water Management Plan for the Oxnard-Hueneme Pipeline System has been posted on the District's website for at least 60 days, comments have been invited from a diverse group of United's customers and constituents, and a public hearing was held on June 8, 2016 at which public comments were invited.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of United Water Conservation District adopts its 2015 Urban Water Management Plan for the Oxnard-Hueneme Pipeline System, subject to any non-substantive changes required to incorporate any comments received at or prior to the notice of public hearing.

PASSED, APPROVED AND ADOPTED this 8th day of June, 2016.

ATTEST: Bruce E. Dandy
Bruce E. Dandy, President

ATTEST: Daniel C. Naumann
Daniel C. Naumann, Secretary/Treasurer

APPENDIX D

Water Loss Spreadsheet

AWWA Free Water Audit Software:
Reporting Worksheet

WAS v5.0

? Click to access definition
+ Click to add a comment

Water Audit Report for: United Water
Reporting Year: 2015 | 1/2015 - 12/2015

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: ACRE-FEET PER YEAR

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

<---------- Enter grading in column 'E' and 'J' ---------->

Master Meter and Supply Error Adjustments

WATER SUPPLIED

					Pcnt:	Value:	
Volume from own sources:	10,807.000	acre-ft/yr	5			-112.950	acre-ft/yr
Water imported:		acre-ft/yr					acre-ft/yr
Water exported:		acre-ft/yr					acre-ft/yr
WATER SUPPLIED:	**10,919.950**	acre-ft/yr					

Enter negative % or value for under-registration
Enter positive % or value for over-registration

AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

		Pcnt:	Value:	
Billed metered:	10,883.080	acre-ft/yr		
Billed unmetered:		acre-ft/yr		
Unbilled metered:		acre-ft/yr		
Unbilled unmetered:	0.500	acre-ft/yr		0.500 acre-ft/yr
AUTHORIZED CONSUMPTION:	**10,883.580**	acre-ft/yr		

Use buttons to select percentage of water supplied **OR** value

WATER LOSSES (Water Supplied - Authorized Consumption)

36.370 acre-ft/yr

Apparent Losses

		Pcnt:	Value:	
Unauthorized consumption:	1.000	acre-ft/yr		1.000 acre-ft/yr
Customer metering inaccuracies:	1.000	acre-ft/yr		1.000 acre-ft/yr
Systematic data handling errors:	1.000	acre-ft/yr		1.000 acre-ft/yr
Apparent Losses:	**3.000**	acre-ft/yr		

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **33.370** acre-ft/yr

WATER LOSSES: **36.370** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **36.870** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	12.0	miles
Number of active AND inactive service connections:		
Service connection density:	0	conn./mile main
Are customer meters typically located at the curbstop or property line?	Yes	
Average length of customer service line:		(length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: 60.0 psi

COST DATA

Total annual cost of operating water system:		$/Year
Customer retail unit cost (applied to Apparent Losses):		
Variable production cost (applied to Real Losses):		$/acre-ft

☐ Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

Add a grading value for 12 parameter(s) to enable an audit score to be calculated

PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

1: Volume from own sources
2: Billed metered
3: Customer metering inaccuracies

APPENDIX E

Resolution No. 2014-01

RESOLUTION 2014-01

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT DECLARING THE EXISTENCE OF DROUGHT CONDITIONS AND SETTING POLICIES DIRECTING CERTAIN ACTIONS TO BE TAKEN

WHEREAS, the United Water Conservation District ("United") is responsible for the protection and augmentation of water supplies, including groundwater, within the approximate 214,000 acres in central and southern Ventura County within the district's boundaries; and

WHEREAS, United's mission is to manage, protect, conserve and enhance the water resources of the Santa Clara River, its tributaries and associated aquifers, in the most cost effective and environmentally balanced manner; and

WHEREAS, United operates a management program and water conservation facilities focusing on long-term recharge, replenishment and sustainability of the groundwater aquifers and hydrologically connected basins within the district, serving the needs of both municipal and industrial ("domestic") and agricultural users; and

WHEREAS, United's facilities store winter runoff for later release during the dry season, divert water from the Santa Clara River, recharge the aquifers through spreading basins, and deliver surface water and groundwater to cities and growers so that groundwater pumping is reduced in areas negatively impacted by seawater intrusion; and

WHEREAS, United's facilities include the Santa Felicia Dam, Lake Piru (which typically receives some water from the State Water Project via Lake Pyramid and Piru Creek), the Freeman Diversion, several spreading grounds and basins, wells, and three in lieu water delivery systems, i.e. the Oxnard-Hueneme Pipeline ("O-H Line"), the Pleasant Valley Pipeline ("PVP"), and the Pumping Trough Pipeline ("PTP"); and

WHEREAS, United extracts and treats groundwater from its El Rio well facilities and delivers treated water via its O-H Line to thousands of domestic users in the City of Oxnard, the Port Hueneme Water Agency, two Navy bases, and other users, who rely at least in part on such water supplied by the District; and

WHEREAS, through the Freeman Diversion, United diverts a portion of the surface water from the Santa Clara River, uses much of the water to recharge aquifers underlying the Oxnard Forebay and Oxnard Plain, and transports the remainder of the diverted water via the PVP to the Pleasant Valley County Water District ("PVCWD") through contractual allotment for agricultural use within PVCWD, with a primary purpose being to minimize agricultural groundwater extractions in this area of the

Oxnard Plain, mitigate overdraft conditions and water quality degradation which exists in underlying area aquifers and which can adversely impact agricultural users**;** and

WHEREAS, United uses a combination of groundwater from its Saticoy and El Rio well facilities, multiple lower aquifer system wells in the PTP area, and diverted surface water, and delivers the water via the PTP to agricultural users in a portion of the Oxnard Plain to minimize agricultural groundwater extractions in this area of the Oxnard Plain, mitigate overdraft conditions, and water quality degradation which exists in underlying area aquifers and which can adversely impact agricultural user; and

WHEREAS, the State of California, and locally Ventura County, are experiencing record lack of rainfall and consequent dry conditions, with 2014 projected to become the driest year on record; and

WHEREAS, dry conditions have persisted for the past three years and may continue past this year; and

WHEREAS, on January 17, 2014, the Governor of the State of California found that conditions of extreme peril to the safety of persons and property exist in California due to water shortage and drought conditions, and proclaimed a state of emergency to exist in the State of California due to current drought conditions; and

WHEREAS, the U.S. Drought Monitor has designated Ventura County to be currently in a condition of exceptional drought; and

WHEREAS, on January 31, 2014, the California Department of Water Resources announced that agencies contracting with the State Water Project will receive zero percent of their 2014 water allocations unless precipitation and changes in water storage levels in the next few months warrant an increase. This would mean that United would receive no water from the State Water Project at Lake Piru; and

WHEREAS, locally, because of drought conditions groundwater levels have dropped to below sea level in the general Oxnard Plain area and are declining in the groundwater basins of the lower Santa Clara River valley; and

WHEREAS, the Oxnard Forebay is a key component for managing the groundwater resources of the Oxnard Plain area. Because of the lack of surface water and precipitation to recharge and replenish groundwater aquifers, the Forebay has steadily increasing available storage values which mimic those in the 1990 drought period. The current estimated available storage in the Forebay is 98,000 acre feet and is projected to reach and surpass the 1990's drought level of 121,000 acre-feet by the end of summer 2014 or early fall. A higher amount of available storage means that there is less water

available to create pressure to repel or stabilize seawater intrusion in Oxnard Plain groundwater aquifers. The Forebay is considered to be at about sea level when the groundwater level reaches 80,000 acre-feet of available storage; and

WHEREAS, the United Water Conservation District has reported that groundwater storage in the Oxnard Plain Basin Forebay dropped by 35,000 acre feet in the past year and groundwater levels are currently below sea level. Continued dry conditions and regulatory restriction on diversions from the Vern Freeman Diversion will result in less water available for recharge of the Forebay; and

WHEREAS, the lack of surface water and precipitation to recharge and replenish the aquifers is adversely impacting United's operations and upper and lower aquifer well facilities and creating water quality problems such as elevating nitrate concentrations in United's El Rio wells supplying domestic water to the O-H Line to values not meeting drinking water (health and safety) standards, and chloride concentrations to levels which impact the productivity of agricultural soils due to salt buildup; and

WHEREAS, conditions that promote sea water intrusion into groundwater aquifers occur when groundwater levels are below sea level and could result in permanent damage to the aquifers; and

WHEREAS, the surface water flow in the Santa Clara River is significantly reduced; and

WHEREAS, the operation of the Vern Freeman Diversion and the Santa Felicia Dam have changed due to Federal (e.g., Endangered Species Act) and State environmental compliance requirements, and restrict the aquifer replenishment benefits received from these facilities, make it more difficult to recover from the present and future drought episodes, and may be subject to further changes; and

WHEREAS, low precipitation rates within the district for the past three years have resulted in inadequate surface water storage in Lake Piru and forced the cancellation of the Annual Fall Conservation release in 2013 and the upcoming 2014 release; and

WHEREAS, due to the lack of surface water and precipitation for recharge as earlier referenced, a combination of diminished surface water availability and declining groundwater levels in United's PTP lower aquifer well field severely affects the district's ability to provide water to irrigated agricultural operations through the PTP. In the absence of substantial precipitation, declining groundwater levels are expected to reduce or eliminate water supply from the PTP by mid-summer or early fall 2014; and

WHEREAS, United is monitoring the actions of other agencies in response to drought conditions, including the Fox Canyon Groundwater Management Agency (FCGMA), an independent special district charged with the management and protection of aquifers within several groundwater basins underlying southern Ventura County. FCGMA's territory substantially overlaps United's boundaries on the Oxnard Plain. The FCGMA is currently considering undertaking potential action(s), including an emergency ordinance which among other things would limit groundwater extractions within the agency's boundaries; and

WHEREAS, as the distributor of a public water supply (at least in part), United is authorized in accordance with Water Code Section 350 et seq. to declare a water shortage emergency and to adopt regulations and restrictions on the delivery and consumption of water within such service area to ensure sufficient water for human consumption, sanitation and protection; and

WHEREAS, such a water shortage emergency declaration would be preceded by public notice and a noticed public hearing and, while the Board retains this authority and continues to monitor conditions in its service area, has not as yet undertaken this step; and

WHEREAS, state law provides that use of water for domestic purposes is the highest use of water and the next highest is for irrigation;

NOW, THEREFORE, BE IT RESOLVED by the Board of the Directors of the United Water Conservation District as follows:

1. The Board finds and determines that the above recitals are true and correct, and that drought conditions exist within the district.

2. United staff shall operate the district's facilities in a manner responsive to current drought conditions and consistent with the district's responsibilities to its domestic and agricultural water users. This shall include the following order of priorities for the use of surface water diverted from the Freeman Diversion for use within the district:

   A. Dilution of nitrates in the groundwater extracted from the district's El Rio well facilities sufficient to ensure that the water delivered to domestic users through the O-H Line meets or exceeds drinking water standards.

B. Delivery of a minimum contractual allotment of 12.22% of the diverted surface water to the PVCWD via the PVP delivery system.

C. Recharge of the Oxnard Forebay through the district's El Rio and Saticoy facilities for the purpose of increasing head pressure to fight seawater intrusion into area groundwater aquifers.

D. Delivery of surface water through the PTP delivery system.

E. Delivery of remaining available water to the PVCWD through the PVP delivery system.

The Board directs that the foregoing order of priorities remain in effect until the Board receives a technical report from staff indicating that the forebay available storage level has been significantly reduced and is sustainable.

3. The Board encourages the Fox Canyon Groundwater Management Agency to undertake all water conservation and drought relief actions which it may be authorized and deems appropriate to implement, including the potential FCGMA emergency ordinance referred to herein.

4. The Board urges all domestic and agricultural groundwater pumpers within the boundaries of the FCGMA to fully comply with the terms of any emergency ordinance approved by the FCGMA, and to take any other actions undertaken or recommended by the FCGMA, to promote water conservation and alleviate impacts from current drought conditions. Specifically, the Board urges all pumpers to reduce their groundwater pumping by the percentages set forth in any emergency ordinance and undertake all feasible actions to promote water conservation, including accessing alternative water supplies if available.

5. Given the hydrological connection existing between all groundwater basins within the district, the Board is concerned about the impacts of groundwater pumping occurring in Santa Clara River valley basins (e.g. the Santa Paula, Fillmore and Piru basins) located upstream of the Oxnard Plain area basins (e.g. the Oxnard Plain, Oxnard Forebay, Mound, and West Las Posas basins). These upper basins are within the district, but not within the boundaries of the FCGMA. The Board urges all domestic and agricultural groundwater pumpers in these Santa Clara River areas to reduce their groundwater pumping by the same percentage(s) as pumpers in the areas within the FCGMA, and undertake all feasible actions to promote water conservation, including accessing alternative water supplies if available.

6. The General Manager is authorized to identify additional operational actions which United could undertake, pursue any available drought relief funding, consult with other local water agencies, and to request additional water conservation measures as determined necessary and appropriate for the protection of public health and safety, and the conservation of groundwater aquifers and supplies.

7. The Board reserves its ability to undertake future actions in support of water conservation authorized by law, including but not limited to declaration of a water shortage emergency, the filing of judicial actions concerning the ownership or use of water within the district, and the enactment of ordinances for district facilities.

8. The Board declares its support for the measures set forth in the Governor's recent proclamation and his call for Californians to reduce their water usage by 20%.

9. The Board requests the California Department of Water Resources, the State Water Resources Control Board, and other state agencies to accelerate funding for water supply enhancement projects.

10. The Board encourages the Board of Supervisors for the County of Ventura to implement any water conservation actions and drought relief measures which it may be authorized to undertake. The Board further encourages the Board of Supervisors to initiate steps to bring the County's full State Water Project allocation (20,000 acre feet) into Ventura County. The Board recognizes that this effort will not help with near-term drought management strategies, but would help diversify the County's water supply portfolio.

11. The Board urges local water supply agencies to contact the State's Drinking Water Program to identify financial and/or technical resources that may assist in mitigating drinking water shortages and water quality standard exceedences, and identifying emergency interconnections which exist among the State's public water systems.

12. The Board finds that the policies and declarations made herein are necessary to conserve, improve and protect the quantity and quality of water supplies and groundwater conditions within the district, prevent or mitigate the worsening impacts of existing drought conditions (e.g., declining water levels, water quality degradation, and seawater intrusion), bring groundwater extractions into balance with recharge, and promote the public health, safety and welfare of water users who rely on district water supplies.

Resolution No. 2014-01
Continued

13. The actions herein are exempt from the provisions of the California Environmental Quality Act as an emergency project pursuant to Public Resource Code Section 21080(b)(4) and 14 Cal. Code Regs. Section 15269, and consistent with 14 Cal. Code Regs. Sections 15307 and 15308, and the General Manager is directed to file a notice of exemption thereof with the County Clerk.

We, the undersigned, being the duly qualified and current President and Secretary, respectively, of the Board of Directors of the United Water Conservation District, do hereby certify that the above and foregoing resolution was duly and regularly adopted and passed by the District Board of Directors at a meeting held on March 12, 2014, by the following roll call vote:

In favor thereof, Directors:

6

Abstain, Directors:

0

Not in favor, Directors:

0

Absent, Directors: 1

ATTEST: _____
Lynn Maulhardt, Board President

ATTEST: _____
Robert Eranio, Secretary/Treasurer