CITY OF OXNARD

2015 URBAN WATER MANAGEMENT PLAN

July 1, 2016

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List of Acronyms/Abbreviations

AF	Acre-feet
AFY	Acre-feet per Year
AMR	Automatic Meter Reading
ASR	Aquifer Storage and Recovery
AWPF	Advanced Water Purification Facility
BMP	Best Management Practice
BS	Blending Station
CII	Commercial, Industrial, and Institutional
CMWD	Calleguas Municipal Water District
CRA	Colorado River Aqueduct
CUWCC	California Urban Water Conservation Council
CWC	California Water Code
DMM	Demand Management Measure
DOF	Department of Finance
DWR	Department of Water Resources
FCGMA	Fox Canyon Groundwater Management Agency
GREAT	Groundwater Recovery Enhancement and Treatment
GSP	Groundwater Sustainability Plan
LAS	Lower Aquifer System
mg/l	milligrams per liter
MGD	Million Gallons per Day
MWD	Metropolitan Water District of Southern California
NBVC	Naval Base Ventura County
NDMA	N-Nitrosodimethylamine
PHWA	Port Hueneme Water Agency
PPCP	Pharmaceuticals and Personal Care Products
PWIMP	Public Works Integrated Master Plan
RO	Reverse Osmosis
RUWMP	Regional UWMP
SB X7-7	Senate Bill X7-7
SGMA	Sustainable Groundwater Management Act
SMP	Salinity Management Pipeline
SWP	State Water Project
TDS	Total Dissolved Solids
TEA	Temporary Extraction Allocation
UAS	Upper Aquifer System
UWCD	United Water Conservation District
UWMP	Urban Water Management Plan
VCLAFC	Ventura County Local Agency Formation Commission
WSA	Water Supply Agreement
WSAP	Water Supply Allocation Plan
WSDM	Water Surplus and Drought Management Plan

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Section 1. Introduction and Overview

1.1. Background and Purpose

The mission of City of Oxnard Public Works Department is to enhance the quality of life in the City of Oxnard by providing the highest quality of public works services, facilities and infrastructure. To that end, the City of Oxnard Public Works Department (Oxnard) operates a retail water distribution system to provide its citizens with a source of safe and reliable drinking water. The operational area and key facilities associated with the Oxnard system are illustrated in Figure 1-1. Maintaining a reliable and safe drinking water supply is a significant effort for Oxnard which requires continual planning and upkeep as the resources and technologies available to Oxnard change.

The purpose of this Urban Water Management Plan (UWMP) is to provide the public, stakeholders and Oxnard with an updated status and plan for the Oxnard Water System including:

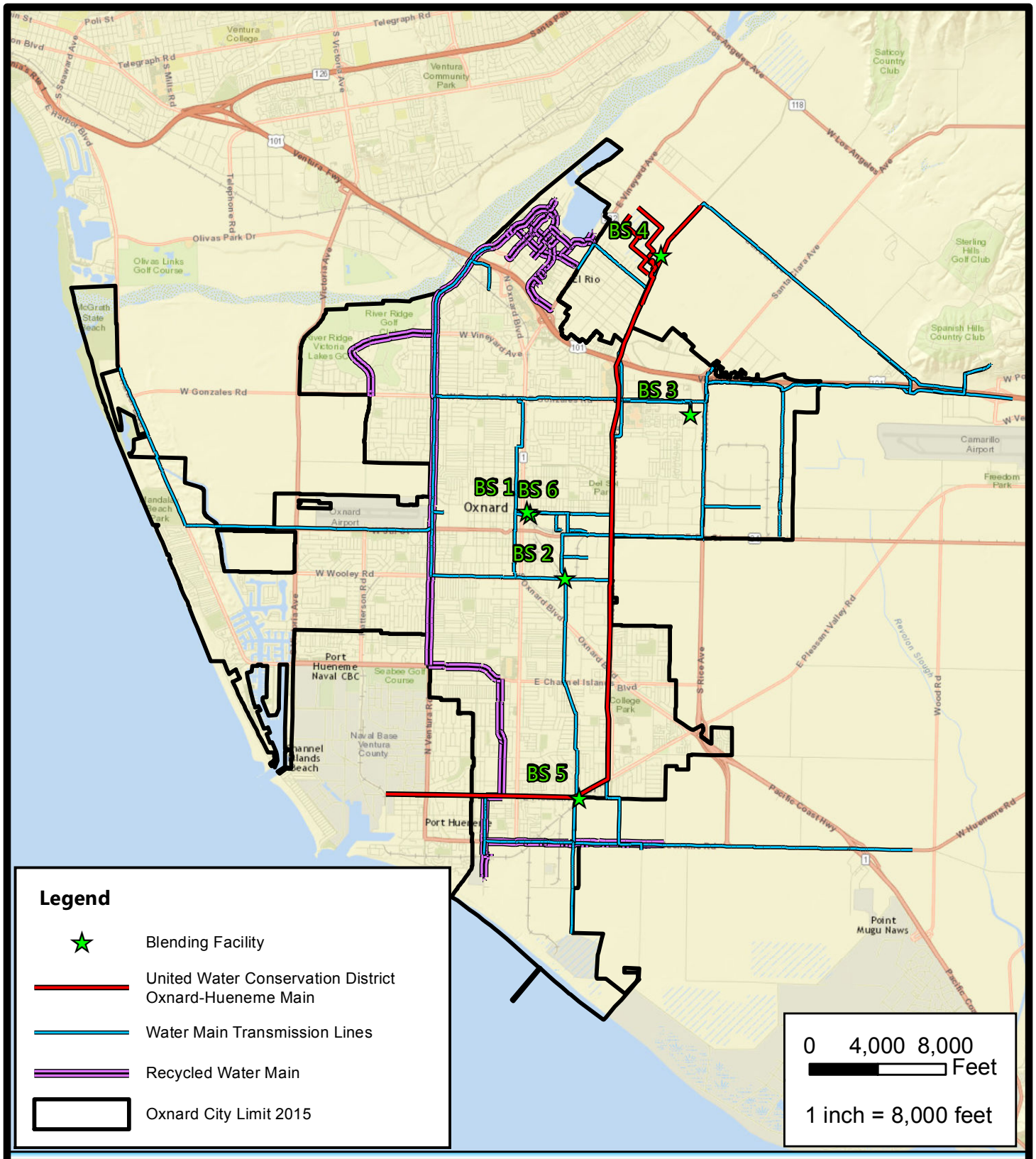
- Water deliveries and uses
- Water supply sources
- Efficient water uses
- Demand management measures
- Water shortage contingency planning

This UWMP was prepared in compliance with the Water Conservation Act of 2009, also known as SBX 7-7, under the authorization of the City of Oxnard. Oxnard has undertaken several planning efforts since the 2010 UWMP including the *Public Works Integrated Master Plan* (PWIMP) (Carollo, December 2015), which has been used as a source for much of the information presented in this 2015 UWMP.

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 Oxnard City Council on June 20, 2016 is provided in Appendix C.



CITY OF OXNARD CALIFORNIA

Figure 1-1
City of Oxnard Water Supply Key Features

Section 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 (AF) of water per year are required to prepare a UWMP every five years to be in compliance with the California Water Code (CWC) Section 10617. The Oxnard System exceeds both the 3,000 service connections and the 3,000 AF volume threshold requirements for an UWMP.

2.1.1. Public Water Systems

The number of connections and total supplied volume for the Oxnard System is summarized in Table 2-1.

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
5610007	City of Oxnard	41,514	25,806
TOTAL		41,514	25,806

NOTES: Volume of water supplied is in acre feet (AF)

2.1.2. Agencies Serving Multiple Service Areas/Public Water Systems

This section is not applicable to the City of Oxnard.

2.2. Regional Planning

The 2015 UWMP for the Oxnard System has been prepared on an individual reporting plan that only covers the service area of the City of Oxnard.

2.3. Individual or Regional Planning and Compliance

2.3.1. Regional UWMP

This document was not prepared as part of a Regional UWMP. Coordination of this UWMP with other water agencies is described in Section 2.5 of this document.

2.3.2. Regional Alliance

This document was not prepared as part of a Regional Alliance. Coordination of this UWMP with other water agencies 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:		

2.4. Fiscal or Calendar Year and Units of Measure

2.4.1. Fiscal or Calendar Year

The 2015 UWMP for the Oxnard System has been prepared on a calendar year basis as indicated in Table 2-3.

2.4.2. Reporting Complete 2015 Data

Oxnard has included complete data for 2015 in this UWMP.

2.4.3. Units of Measure

Volumes reported in this UWMP are in acre-feet.

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.

2.5.1. Wholesale and Retail Coordination

Table 2-4 summarizes organizations contacted in the development of this UWMP and their associated level of participation.

Table 2-4 Retail: Water Supplier Information Exchange
The retail supplier has informed the following wholesale supplier(s) of projected water use in accordance with CWC 10631.
Wholesale Water Supplier Name
Calleguas Municipal Water District (CMWD)
United Water Conservation District (UWCD)
NOTES:

2.5.2. Coordination with Other Agencies and the Community

The City of Oxnard has coordinated preparation of the 2015 UWMP with:

- Metropolitan Water District of Southern California
- Calleguas Municipal Water District (CMWD)
- Port Hueneme Water Agency (PHWA)
- United Water Conservation District (UWCD)
- Channel Islands Beach Community Services District
- City of Port Hueneme
- Fox Canyon Groundwater Management Agency (FCGMA)
- Naval Base Ventura County (NBVC)
- Ventura County Local Agency Formation Commission

2.5.3. Notice to Cities and Counties

A notice of preparation of the 2015 UWMP was distributed to:

- City of Ventura
- City of Camarillo
- County of Ventura

Section 3. System Description

3.1. General Description

Oxnard was incorporated in 1903 and is governed by a five-member City Council. The City is a diverse mix of single family and multi-family residential development, as well as associated commercial developments and agriculture-related industries. One significant industrial water user is the Procter and Gamble facility. The recession delayed several planned mixed-use developments; however, the RiverPark development and The Collection shopping center have been very active in recent years and the Wagon Wheel development is currently underway. Other large-scale developments on the planning horizon include Teal Club and South Shore.

The Public Works Department manages the potable water, recycled water and wastewater systems. The water system includes a mix of residential, commercial and industrial customers. The surrounding area, the Oxnard Plain, is distinctive for its year-round agricultural production.

The potable water distribution system service area includes the majority of the incorporated area of the City of Oxnard as well as portions of unincorporated Ventura County. A graphical illustration of the water system service area is provided in Section 3.2.

The water system service area does not include portions of southwestern Oxnard which are served by the Port Hueneme Water Agency. Also excluded from the water system service area are those portions of Oxnard served by mutual water companies.

The wastewater service area is discussed in Section 6.5.2.

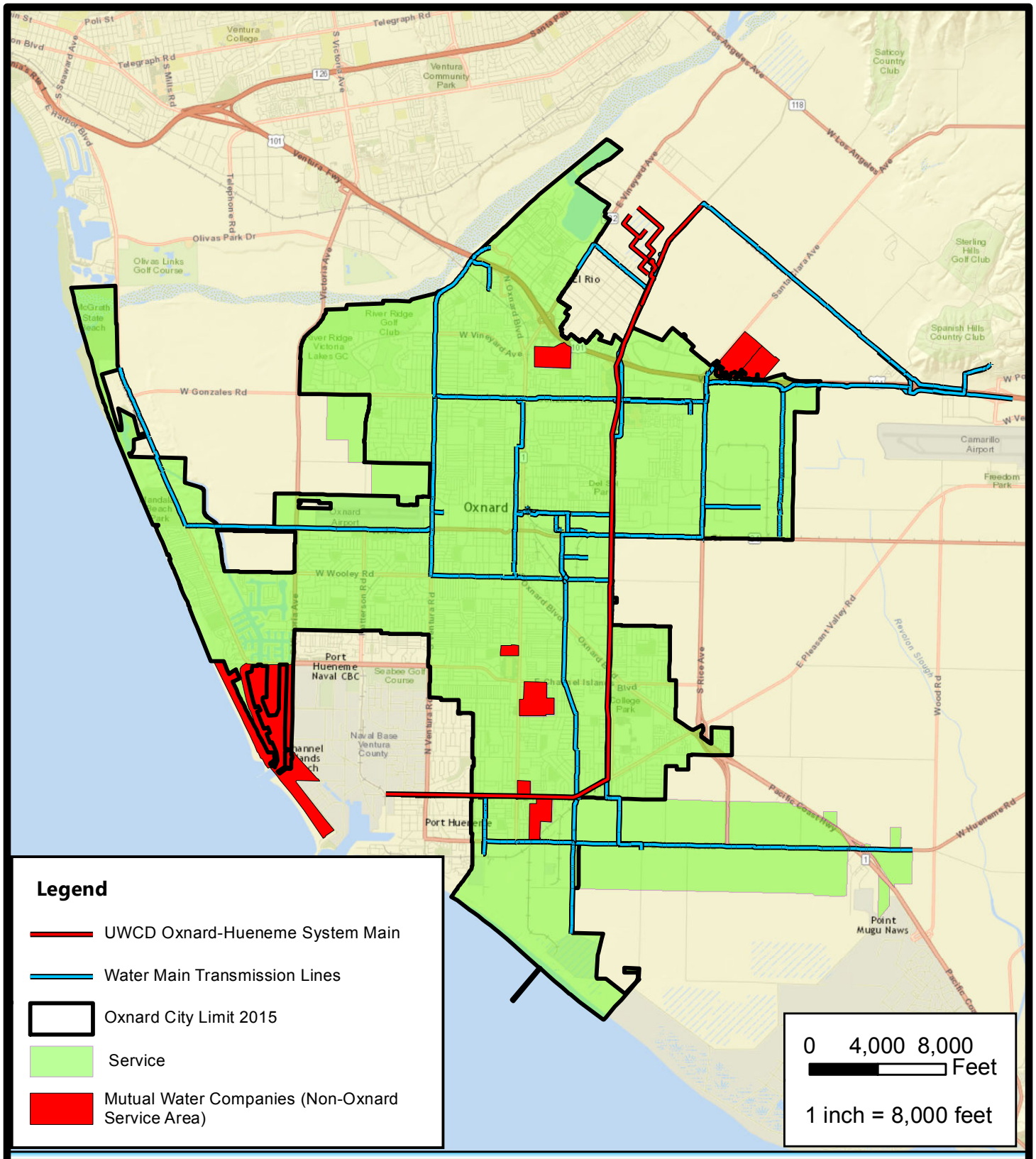
3.2. Service Area Boundary Maps

A graphical illustration of the service area is provided as Figure 3-1. Since the 2010 UWMP, there have been several annexations of small parcels, the most significant of which is a parcel at the northeast corner of Rose Avenue and Camino del Sol.

3.3. Service Area Climate

Oxnard has a dry, sub-tropical, climate that is heavily influenced by its proximity to the Pacific Ocean. 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 12.65 inches.[1]

[1] Data from NOAA, for period of record for Oxnard WSFO station: http://w2.weather.gov/climate/xmacis.php?wfo=lox



CITY OF OXNARD CALIFORNIA

Figure 3-1
City of Oxnard
Potable Water
Service Area

3.4. Service Area Population and Demographics

The DWR Population Tool was used to estimate the 2015 population. Population projections for the service area through the year 2040 are provided in Table 3-1. Population projections were obtained from the PWIMP Project Memorandum 1.3, which used several sources of data, including:

- City of Oxnard 2030 General Plan, Development Services Department Planning Division, October 2011
- City of Oxnard General Plan Background Report, Development Services Department Planning Division, April 2006
- 2010 Census Traffic Analysis Zone, Southern California Association of Governments, (2010)
- 2014 Population Estimates, California Department of Finance (2014)

Table 3-1 Retail: Population - Current and Projected

Population Served	2015	2020	2025	2030	2035	2040
	193,654	220,248	229,622	238,996	248,370	257,744
NOTES:						

There is a significant projected increase in the population. The DWR population tool estimate for 2015 is believed to be a low estimate based on the residential density of the City.

3.4.1. Other Demographic Factors

The City of Oxnard does not typically experience significant population changes by season. The tourist population does not comprise a significant portion of the total population and the climate allows for year-round agricultural work so work force populations do not significantly fluctuate with a particular time of year.

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Section 4. System Water Use

4.1. Recycled versus Potable and Raw Water Demand

To provide clarity between potable and recycled water sources, potable and recycled water sources are discussed in separate sections of this document. 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. Projected demands are listed in Table 4-2 and were developed using the population projections summarized in Table 3-1 as described in the PWIMP, Project Memorandum 2.2 Water Demand Projections.

4.2.1. Demand Sectors Listed in Water Code

A breakdown of potable and raw water demands is provided in Table 4-1.

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

Use Type	2015 Actual		
	Additional Description *(as needed)*	Level of Treatment When Delivered	Volume
Single Family		Drinking Water	8,662
Multi-Family		Drinking Water	3,504
Commercial		Drinking Water	3,328
Industrial		Drinking Water	2,982
Institutional/Governmental		Drinking Water	409
Landscape		Drinking Water	2,417
Agricultural irrigation		Drinking Water	926
Other	Fire Hydrants	Drinking Water	75
Losses		Drinking Water	3,120
		TOTAL	25,423
NOTES:			

Table 4-2 Retail: Demands for Potable and Raw Water - Projected (AF)						
Use Type	Additional Description *(as needed)*	Projected Water Use *Report To the Extent that Records are Available*				
		2020	2025	2030	2035	2040-opt
Single Family		12,535	13,068	13,602	14,135	14,669
Multi-Family		5,071	5,286	5,502	5,718	5,934
Commercial		4,816	5,021	5,226	5,431	5,636
Industrial		4,315	4,499	4,683	4,866	5,050
Institutional/Governmental		592	617	642	667	693
Landscape		3,498	3,646	3,795	3,944	4,093
Agricultural irrigation		1,340	1,397	1,454	1,511	1,568
Other	Fire hydrants	108	114	119	124	126
Losses		389	406	422	439	456
TOTAL		32,664	34,054	35,445	36,835	38,225
NOTES: The PWIMP PM 2.2 Water Demand Projections did not distinguish the Use Type. Ratios for each Use Type were developed for 2015 data and these ratios were applied to the Projected Water Use in this table.						

Table 4-3 Retail: Total Water Demands (AF)						
	2015	2020	2025	2030	2035	2040 *(opt)*
Potable and Raw Water *From Tables 4-1 and 4-2*	25,423	32,664	34,054	35,445	36,835	38,225
Recycled Water Demand *From Table 6-4*	605	7,000	14,000	14,000	14,000	14,000
TOTAL WATER DEMAND	26,028	39,664	48,054	49,445	50,835	52,225
NOTES:						

4.2.2. Demand Sectors in Addition to Those Listed in Water Code

4.2.2.1. Exchanges

Oxnard does not participate in any exchanges which would be considered a demand its system.

4.2.2.2. Surface Water Augmentation

Oxnard does not place recycled water into a surface water reservoir as a source of domestic drinking water supply.

4.2.2.3. Transfers

Oxnard entered into a Three-Party Water Supply Agreement (WSA) with the Port Hueneme Water Agency (PHWA) and Calleguas Municipal Water District (CMWD) in 2002. The Three-Party WSA was intended to aggregate the imported water supplied to Oxnard and PHWA from CMWD. Oxnard would supply PHWA with imported water from CMWD through Oxnard's facilities. In 2015, Oxnard provided PHWA with 558 AF of CMWD water, which is not included in Tables 4-1 and 4-2.

4.2.2.4. Wetlands or Wildlife Habitat

None of Oxnard's potable water is used for wetlands or wildlife habitat. A small volume of recycled water from the Advanced Water Purification Facility is used for a demonstration wetlands project and is discussed in Section 6.5.

4.2.2.5. Other

Oxnard uses a category "Other-FH" for commercial/industrial fire line services. These are included in Tables 4-1 and 4-2.

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 system losses for 2015 are provided in Tables 4-1 and 4-4.

Table 4-4 Retail: Water Loss Summary Most Recent 12 Month Period Available (AF)
(as calculated in Appendix D worksheet)

Reporting Period Start Date (Month/Year)	Loss
January 2015	3,120
NOTES:	

4.4. Estimating Future Water Savings

The current demand projections are conservative in that they do not account for reductions in demand due to public outreach efforts, codes and ordinances limiting water use during periods of drought, or other "passive" water savings gained through public policy. The City of Oxnard has several ordinances, codes and outreach efforts tailored for water conservation. A detailed description of these policies is described in Sections 8.3 and 8.4.

4.5. Water Use For Lower Income Households

The 2006-2014 Housing Element of the 2030 General Plan describes the housing in Oxnard for single-family and multi-family units in 2008 at 29,485 units and 15,681 units, respectively (Table B-30). The percentage of very-low income and low-income residents in Oxnard is a total of 38.2 percent of the population (Table D-1). Using these numbers, approximately 11,260 single-family units and 5,990 multi-family units exist for low-income households.

The 2006-2014 Housing Element includes needs for 2,712 future low-income housing units to accommodate population projections (Table D-2). These water demands are taken into consideration in the demand projections.

Table 4-5 Retail Only: Inclusion in Water Use Projections	
Future Water Savings Included Y/N	No
If "Yes" to above, state the section or page number where citations of the codes, ordinances, etc.… utilized in demand projections are found.	Location in UWMP_____
Lower Income Residential Demands Included	Yes
NOTES:	

Section 5. Baselines and Targets

Senate Bill (SB) X7-7 mandates a 20 percent reduction in urban water use in the State of California by the year 2020. To achieve this goal, each retail urban water supplier is required to establish a baseline water use, set target water use goals for 2015 and 2020, and demonstrate the 2015 target is achieved based on actual water use.

The process for establishing baseline, target and actual water use has been standardized by the DWR in the SB X7-7 Verification Form. Water use measurements and targets are reviewed and reported based on a gallons per capita day (GPCD) basis. This chapter of the UWMP documents the data and methods used to establish baseline, target and actual GPCD use within the framework of the SB X7-7 Verification Form.

5.1. Guidance for Wholesale Agencies

This section is not applicable to the City of Oxnard, which is a retail agency.

5.2. Updating Calculations from 2010 UWMP

Since the 2010 UWMP, the methods for selecting water use targets have been revised. Additional data has also become available for estimating population since the development of the 2010 UWMP. This 2015 UWMP updates SB X7-7 calculations based on the availability of new data and additional guidance from DWR.

5.2.1. Update of Target Method

Retail water agencies have the option of demonstrating compliance with demand reduction targets by selecting one of four methods:

- **Target Method 1** – Demonstrate reduction to 80-percent of the base daily per capita water use.
- **Target Method 2** – Meet three performance standards:
    - Efficient Indoor Residential Use
    - Landscape Water Use Equivalent to Model Ordinance
    - 10% Reduction in Commercial, Industrial, and Institutional (CII) Water Use from Baseline Water Use
- **Target Method 3** – Demonstrate reduction to 95 percent of the applicable State Hydrologic Region Target.
- **Target Method 4** – Savings by Water Sector as outlined by the DWR.

Water agencies have the option of changing the Target Methodology used in the 2015 UWMP from that which was used in the 2010 UWMP. Method 3, the 95 percent of the applicable State Hydrologic Region Target was applied in the 2010 UWMP for the City of Oxnard.

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

Due to significant discrepancies between reported Department of Finance (DOF) population estimates and 2010 Census population estimates, all population estimates used to determine GPCD must be based on U.S. Census data. Population estimates and projections listed in the 2010 UWMP from 2001 to 2035 were developed by the City.

5.2.3. SBX7-7 Verification Form

A copy of the completed standard SBX7-7 Forms is included in Appendix E and was uploaded to the DWR site.

5.3. Baseline Periods

Two historic water use periods, a 10-15 year baseline and a 5-year baseline, were used as the basis for establishing the 2015 compliance GPCD and the 2020 target GPCD. The 10-15 year baseline period is used to compute the "Baseline" GPCD and the 5-year baseline is used to determine the "Target Confirmation" GPCD.

5.3.1. Determination of the 10 – 15 Year Baseline Period (Baseline GPCD)

A 10-year baseline is mandated for retail water suppliers that did not use recycled water to supply at least 10 percent of the 2008 demand. In 2008, the City of Oxnard did not produce or import recycled water. For the 2015 UWMP a 10-year baseline from 1999 to 2008 has been selected to establish the "Baseline" GPCD. This baseline period is consistent with the 2010 UWMP for the City of Oxnard.

5.3.2. Determination of the 5-Year Baseline Period (Target Confirmation)

A 5-year baseline from 2003 to 2007 was selected to establish the "Target Confirmation" GPCD for the 2015 UWMP. The selected 5-year baseline period does not differ from that used in the 2010 UWMP for the City of Oxnard.

5.4. Service Area Population

Population data is required to establish a GPCD for each year in both the 10-15 year and the 5-year baselines.

5.4.1. Population Methodologies

For this 2015 UWMP, population estimates through 2015 have been revised based on U.S. Census Data in accordance with guidance by the DWR.

5.5. Gross Water Use

Gross water use includes all treated or untreated water entering the distribution system of a water supplier. Historic gross water use was utilized to compute the GPCD for each year of the 10-15 year and the 5-year baselines. Except for the addition of 2015 actual gross water use, historic gross water use data has not changed from that used in the 2010 UWMP. The 2015 actual gross water use was used to determine the actual 2015 GPCD.

5.5.1. Gross Water Tables

5.5.1.1. Indirect Recycled Water Use Deduction

In 2015 recycled water was not used by the City of Oxnard for groundwater recharge or surface water augmentation. No deductions to historic and 2015 gross water use could be made based on indirect recycled water use.

5.5.1.2. Process Water Use Deduction

Deductions to historic and 2015 gross water were not made based on industrial process water use.

5.6. Baseline Daily Per Capita Water Use

Baseline GPCD was determined as the average GPCD computed from the 10-15 year baseline.

5.7. 2015 and 2020 Targets

GPCD Targets for 2015 and 2020 are provided in Table 5-1. The targets differ from those listed in the 2010 UWMP due to changes in the population numbers used to compute GPCD.

5.7.1. Select and Apply a Target Method

Method 3, reduction to the 95 percent of the applicable State Hydrologic Region Target, was selected for use. This methodology was selected based on the data available as well as the ability of the City to meet the resultant GPCD target. The 2010 UWMP also used Method 3 to establish the GPCD targets. The service area of the City is located entirely in the South Coast Hydrologic Region. The 2020 target using Method 3 for the South Coast Hydrologic Region is 142 GPCD.

5.7.2. 5-Year Baseline – 2020 Target Confirmation

The 5-year baseline, described in Section 5.3.2, is used to establish a minimum 2020 GPCD target that must be achieved regardless of the selected target method. This minimum 2020 GPCD is referred to as the 2020 Target Confirmation and is computed as 95 percent of the 5-year baseline GPCD and applies to retail agencies with a baseline GPCD greater than 100. The 2020 Target Confirmation, based on the 5-year baseline, is 140 GPCD.

5.7.3. Calculate the 2015 Interim Urban Water Use Target

Since the Method 3 Target of 142 GPCD is greater than the 2020 Target Confirmation of 140 GPCD, the 2020 Target Confirmation governs. The “Confirmed” 2020 Target is 140 GPCD, making the 2015 Interim Target 139 GPCD.

5.7.4. Baselines and Targets Summary

GPCD Targets for 2015 and 2020 are provided in Table 5-1. The targets differ from those listed in the 2010 UWMP due to changes in the population numbers used to compute GPCD.

Table 5-1 Baselines and Targets Summary

Baseline Period	Start Year	End Year	Average Baseline GPCD*	2015 Interim Target *	Confirmed 2020 Target*
10-15 year	1999	2008	138	139	140
5 Year	2003	2007	147		

*All values are in Gallons per Capita per Day (GPCD)

NOTES: 2015 and 2020 Targets controlled by 5-Year Baseline, 2020 Target Confirmation. The targets differ from those listed in the 2010 UWMP due to changes in the population numbers used to compute GPCD.

5.8. 2015 Compliance Daily per Capita Water Usage (GPCD)

The City of Oxnard’s actual 2015 usage is 116 GPCD. The actual 2015 GPCD and 2015 Interim Target GPCD are included in Table 5-2.

5.8.1. Meeting the 2015 Target

The results of the SB X7-7 GDCD calculations, summarized in Table 5-2, indicate the City of Oxnard has achieved the 2015 Interim Target GPCD and is on track to meet the 2020 GPCD Target.

5.8.2. 2015 Adjustments to 2015 Gross Water Use

Retail suppliers have the option to correct the compliance 2015 GPCD using DWR Methodology 8 to account for extraneous circumstances that may have occurred in 2015. Since the City of Oxnard is meeting its 2015 Interim Target, optional adjustments were not applied to the 2015 GPCD calculation.

5.9. Regional Alliance

The GPCD values listed in Table 5-2 apply only to the City of Oxnard and were not prepared as part of a Regional Alliance.

Table 5-2: 2015 Compliance
Retail Agency or Regional Alliance Only*

Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments to 2015 GPCD Enter "0" for adjustments not used *From Methodology 8*					2015 GPCD *(Adjusted if applicable)*	Did Supplier Achieve Targeted Reduction for 2015? Y/N
		Extraordinary Events	Economic Adjustment	Weather Normalization	TOTAL Adjustments	Adjusted 2015 GPCD		
116	139	0	0	0	0	116	116	Yes

**All values are in Gallons per Capita per Day (GPCD)*

NOTES: Methodology 8 adjustments are optional.

Section 6. System Supplies

Oxnard's water supply consists of three sources: imported surface water from Calleguas Municipal Water District (CMWD), local groundwater from United Water Conservation District (UWCD), and local groundwater from Oxnard's wells. Oxnard blends water from these three sources to achieve an appropriate balance between water quality, quantity, reliability, and cost. Water sources converge at six Blending Stations (BS) and blended water is then distributed to customers. Additionally, Oxnard produces recycled water at its Advanced Water Purification Facility (AWPF) and delivers recycled water via its Recycled Water Backbone System.

6.1. Purchased or Imported Water

Oxnard purchases groundwater from United Water Conservation District (UWCD), who diverts water from the Santa Clara River at the Freeman Diversion and utilizes spreading basins to recharge the Oxnard Forebay groundwater basin. UWCD then pumps this groundwater and delivers it to Oxnard and other users via the Oxnard-Hueneme (O-H) Pipeline. Similar to Oxnard's groundwater supplies, UWCD's groundwater is under the jurisdiction of the Fox Canyon Groundwater Management Agency (FCGMA). FCGMA ordinances have reduced the amount of groundwater available to Oxnard through UWCD. Further discussion of FCGMA ordinances is presented in Section 6.2.2.

Oxnard purchases its imported water supply from Calleguas Municipal Water District (CMWD), who is a member agency of the Metropolitan Water District of Southern California (MWD), a wholesale supplier of State Water Project water. Oxnard's connection to CMWD is at the Springville Reservoir in Camarillo. Oxnard blends imported water with groundwater to balance water quality and cost.

MWD faces a number of challenges in providing adequate, reliable, and high quality supplemental water supplies for southern California, including the continuing dry hydrologic conditions and Sacramento-San Joaquin River Delta issues. The current water supply conditions affecting the quantity of MWD deliveries include: record low contract supplies are available from the State Water Project (SWP) due to drought and Delta issues, an extended drought in the Colorado River watershed has decreased supplies to the Colorado River Aqueduct (CRA), groundwater basins and local reservoirs have dropped to very low operating levels, and supply available for the Los Angeles Aqueduct is reduced due to drought and Owens Lake issues.

To insure its member agencies which retail imported water, have adequate future demand, MWD completed a reliability analysis for its 2015 UWMP. After projecting demands for single dry year, multiple dry years, and average years, MWD's water reliability analysis indicates that the region can provide reliable water supplies under both the single driest year and the multiple dry-year hydrologies. From 2020 through 2040, demand can be met utilizing CRA and SWP supplies as well as flexible Central Valley/SWP transfer programs and MWD storage facilities. The key component of MWD's supply capability is the amount of water in its large regional storage portfolio that includes both dry-year and emergency storage capacity.

The execution of three plans provides the framework for reliable regional imported water supply: Water Surplus and Drought Management Plan (WSDM), Water Supply Allocation Plan (WSAP), and Emergency Storage Requirements Analysis. The WSDM identifies the sequence of resource management actions which MWD executes during surpluses and shortages. The WSAP provides a formula for allocating available water supplies to the member agencies in case of extreme water shortages. The Emergency Storage Requirements Analysis plans the actions necessary for a catastrophic interruption in water supplies.

MWD responds to water quality concerns by protecting the quality of the source water and developing water management programs that maintain and enhance water quality. Contaminants that cannot be sufficiently controlled through protection of source waters must be handled through changed water treatment protocols or by blending.

Each source has specific quality issues. High salinity levels remain a significant issue associated with CRA supply with emerging threats of uranium, perchlorate, and chromium-6. SWP supply key issues are disinfection byproduct precursors of total organic carbon and bromide. MWD effectively mitigates salinity with blending and has needed to upgrade its water treatment plants to deal adequately with disinfection byproducts.

The major regional water quality concerns include: salinity, perchlorate, total organic carbon and bromide (disinfection byproduct precursors), nutrients (as they relate to algal productivity), arsenic, uranium, chromium-6, and constituents of emerging concern (e.g., NDMA and PPCPs). MWD has taken several actions and adopted programs to address these contaminants and to ensure a safe and reliable water supply, as referenced.

6.2. Groundwater

This section describes the City's own groundwater supplies, including a description of the groundwater basin, management practices and a review of historical, current, and projected conditions. Oxnard pumps groundwater from ten wells that draw from the Oxnard Plain Groundwater Basin and are owned and operated by the City. Oxnard's groundwater is blended with its purchased and imported water at three blending stations (BS). Oxnard operates six distinct blending stations throughout the City. Groundwater from three of the wells is treated using reverse osmosis at BS1/BS6. Although the ratio of blending operations varies, Oxnard indicates that future blending will use a 1:1 (surface water to groundwater) ratio. This ratio produces water that has a total dissolved solids (TDS) level between 600 and 700 milligrams per liter (mg/L), which meets the upper limit of the secondary drinking water standards (1,000 mg/L), at a fairly cost effective unit rate.

6.2.1. Basin Description

Groundwater supplied to the City of Oxnard 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 is an alluvial basin containing a collection of interconnected aquifers separated by layers of clay strata. The Oxnard Plain Groundwater Basin can be generally categorized into three parts: the Oxnard Forebay, the Upper Aquifer System and the Lower Aquifer System. Figure 6-1 provides a schematic profile view of the Oxnard Plain Groundwater Basin.

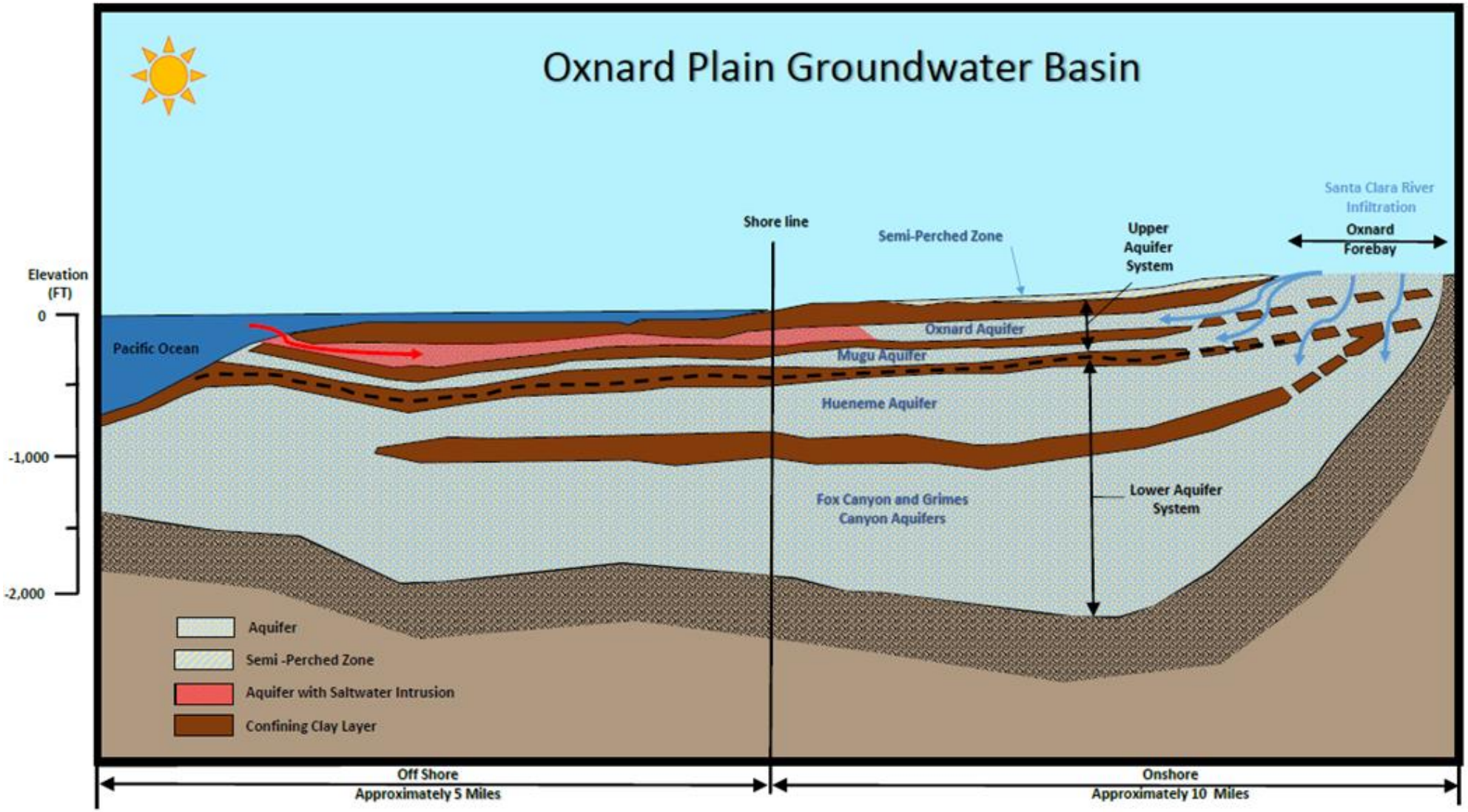


Figure 6-1 Oxnard Plain Aquifer Profile

The Oxnard Forebay is the unconfined portion of the Oxnard Plain Basin and is generally located along the Santa Clarita 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 Clarita River and spreading basins constructed for that purpose. From the Oxnard Forebay, located in the upper most 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 Upper Aquifer System (UAS) comprises of 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 Upper Aquifer system is hydraulically connected to the Pacific Ocean through the Oxnard and Mugu aquifers and is the means by which seawater intrusion enters the Oxnard Plain Basin.

The Lower Aquifer System (LAS) includes the deeper confined aquifers including the Hueneme, Fox Canyon, and Grimes Canyon aquifers. The Lower Aquifer System is separated by an approximately 80 foot thick layer of silty clay which is continuous except near the Oxnard Forebay.

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 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 extraction from a basin are approximately equal to annual replenishments of water into the groundwater basin. The safe yield estimate for the FCGMA area is approximately 120,000 AFY. Allowing for changes in annual rainfall, the reductions in groundwater allocations imposed by the FCGMA have significantly reduced groundwater extractions. Major elements of the UAS Plan include:

- 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.
- 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.
- 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 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 that adopted FCGMA groundwater pumping projections are not exceeded.
4. Pumpage 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 date to account for wet and dry years.

6.2.2.1. FCGMA Ordinance No. 8

On June 26 2002, the FCGMA adopted Ordinance No. 8. 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. (While groundwater rights in the Las Posas Basin have not been definitively adjudicated by a court, the extraction allocations reflect the prior production of groundwater by each pumper, which is one of the key considerations in determining groundwater rights).

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

- 1992-1994 extraction allocation = 95 percent of historical extraction, as adjusted.
- 1995-1999 extraction allocation = 90 percent of historical extraction, as adjusted.
- 2000-2004 extraction allocation = 85 percent of historical extraction, as adjusted.
- 2005-2009 extraction allocation = 80 percent of historical extraction, as adjusted.
- 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.

The Basin has been identified as a High Priority Basin by DWR due to saline intrusion, nitrates, pesticides and PCBs[2].

6.2.2.2. Groundwater Management Plan

In May 2007, FCGMA, together with United and CMWD, 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 acre-feet per year (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.

The Groundwater Management Plan can be found on the FCGMA website at:
http://www.fcgma.org/component/phocadownload/category/4-plans?download=10:fox-canyon-gma-management-plan-final-may-15-2007

6.2.2.3. FCGMA Emergency Ordinance E and Resolution 2013-03

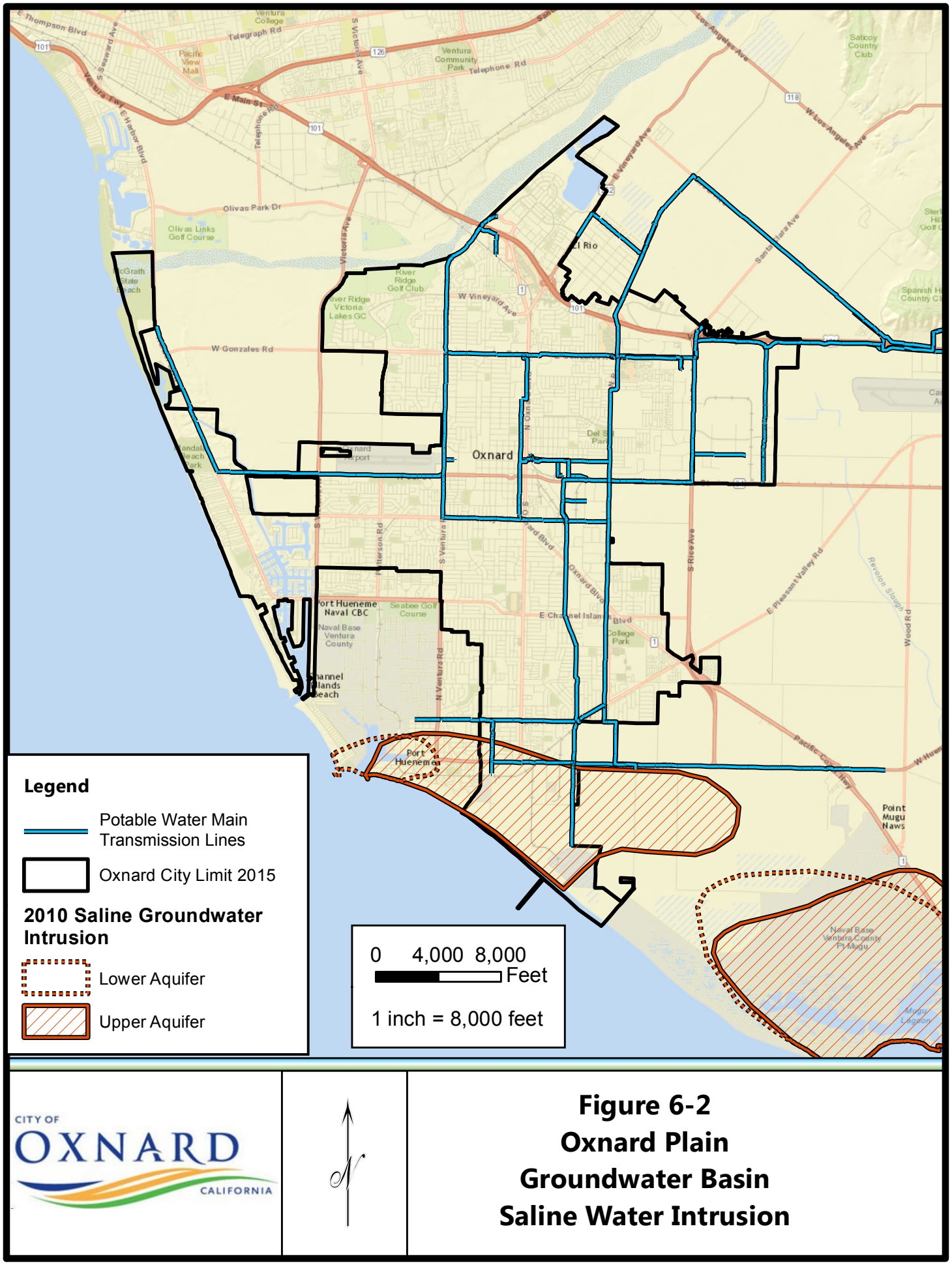
In response to the ongoing drought, FCGMA adopted Emergency Ordinance E which requires groundwater users to reduce their extractions or pay significant financial penalties. The tiered financial penalties are prescribed in Resolution 2013-03. Municipal and industrial well operators must reduce pumping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

[2] http://www.water.ca.gov/groundwater/casgem/pdfs/basin_prioritization/SRO%2045.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 3 miles inland. In some affected wells, chloride concentrations reached 20,000 milligrams per liter (mg/L). By the late 1950s, groundwater levels in the LAS dropped below sea level. Saline intrusion primarily occurred at the Hueneme Submarine Canyon and Mugu Submarine Canyon. Figure 6-2 shows the areas of historical saline intrusion.

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.



CITY OF OXNARD CALIFORNIA

Figure 6-2
Oxnard Plain Groundwater Basin Saline Water Intrusion

6.2.4. Historical Groundwater Pumping

Oxnard's historical groundwater pumping is shown in Table 6-1. Its historical groundwater pumping allocation is 12,456 AFY plus a baseline of 954 AFY for a total of 13,410 AFY. Groundwater pumping allocations have been reduced due to FCGMA's Emergency Ordinance E; Oxnard's TEA effective January 1, 2016 is 7,186 AFY.

Table 6-1 Retail: 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 Basin – Oxnard	10,731	5,174	5,748	7,650	7,110
TOTAL		10,731	5,174	5,748	7,650	7,110

NOTES: City groundwater pumped includes brine from the Desalter facility as follows: 2011 – 977 AF, 2012 – 100 AF, 2013 – 269 AF, 2014 – 622 AF and 2015 – 835 AF.

6.3. Surface Water

Oxnard does not use water directly from any surface water source.

6.4. Stormwater

Oxnard does not currently have any stormwater recovery systems as a water supply source.

6.5. Wastewater and Recycled Water

As part of the City of Oxnard's Groundwater Recovery Enhancement and Treatment (GREAT) Recycled Water Program the City has constructed an Advanced Water Purification Facility (AWPF) utilizing Reverse Osmosis (RO) technology to recycle water. The main transmission pipelines for the recycled water system were constructed in 2011. As of 2015 the AWPF has the capacity to produce 7,000 AFY (6.25 million gallons per day [MGD]). An illustration of the recycled water system is provided as Figure 6-3. Information about the wastewater collection system is summarized in Tables 6-2 and 6-3.

Oxnard intends to use recycled water from the AWPF for landscape irrigation of parks, schools, golf courses and common areas. In 2015 the River Ridge Golf Course, which had been using its own groundwater well, was converted to recycled water use and Oxnard also entered into an agreement with agricultural users in the Oxnard Plain to provide recycled water when available. The pipeline to serve the Oxnard Plain is scheduled for completion in 2016. These users are outside the City's service area, but will make beneficial use of this resource.

6.5.1. Recycled Water Coordination

The City of Oxnard is the wastewater provider and has constructed the AWPF to make use of a portion of the flow from their wastewater treatment plant for recycled water. The City has coordinated with the Pleasant Valley County Water District, Port Hueneme Water Agency and United Water Conservation District to discuss potential uses of recycled water in their service areas.

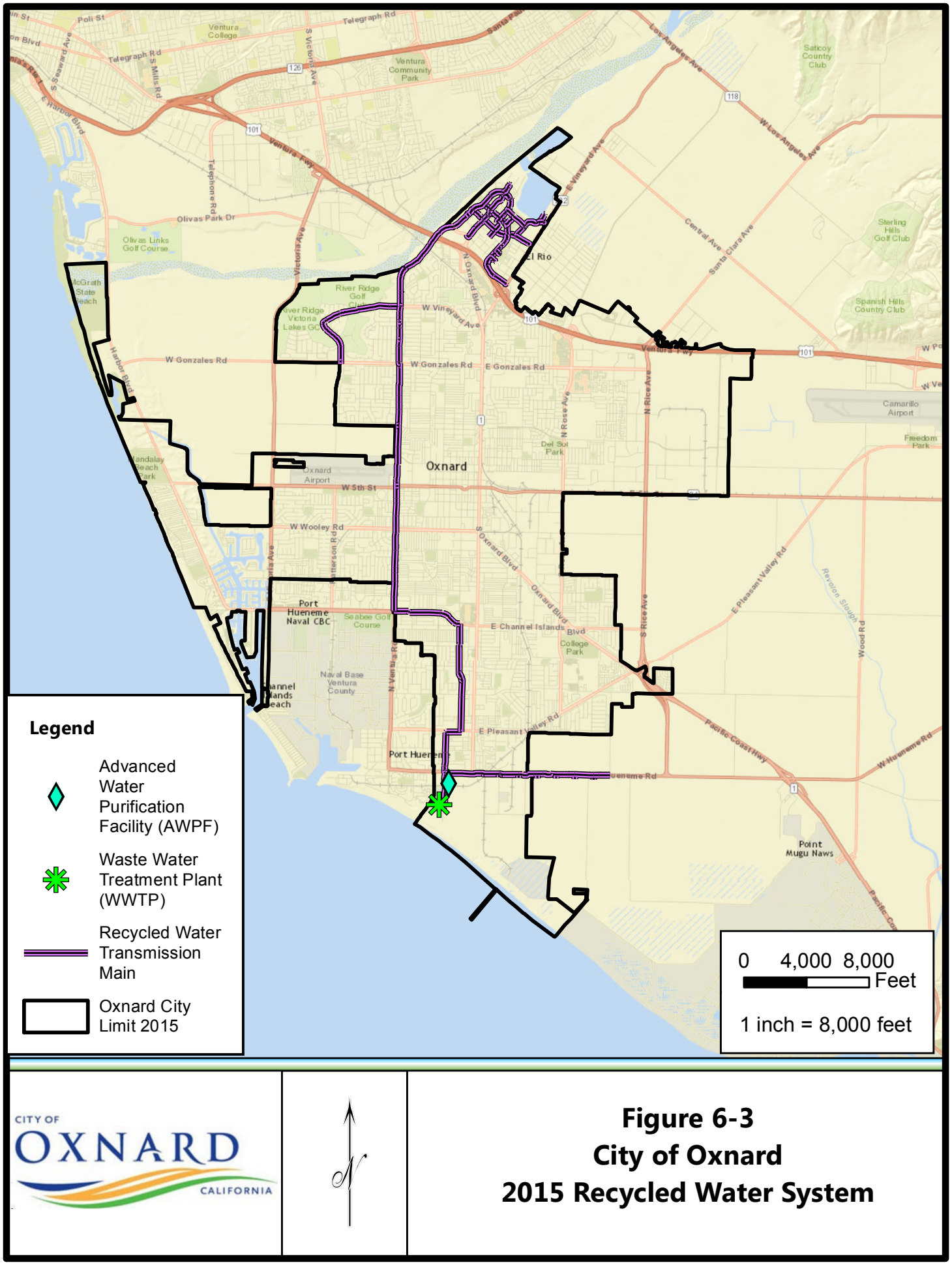


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Figure 6-3
City of Oxnard
2015 Recycled Water System

6.5.2. Wastewater Collection, Treatment, and Disposal

6.5.2.1. Wastewater Collected Within Service Area

The City of Oxnard collects, treats and disposes of wastewater within its service area. Its service area includes most of the City as well as the City of Port Hueneme, Naval Bases Ventura County, and unincorporated areas of Ventura County. The wastewater collection system includes 384 miles of gravity sewer pipelines, 4.7 miles of pressurized pipelines and 15 lift stations. Further information on the City's wastewater collection system can be found in PWIMP Wastewater Project Memorandum 3.1 Background Summary.

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 (AF)	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)*
City of Oxnard	Metered	20,053	City of Oxnard	Oxnard Wastewater Treatment Plant	Yes	No
Total Wastewater Collected from Service Area in 2015:		20,053				
NOTES:						

6.5.2.2. Wastewater Treatment and Discharge Within Service Area

The wastewater treatment plant provides secondary treatment and has a permitted capacity of 31.7 mgd. Treated wastewater is disposed through an ocean outfall. Further information on the wastewater treatment plant can be found in PWIMP Wastewater Project Memorandum 3.1 Background Summary. Table 6-3 summarizes the wastewater treatment plant operations for 2015.

Table 6-3 Retail: Wastewater Treatment and Discharge Within Service Area in 2015

☐	No wastewater is treated or disposed of within the UWMP service area. 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 (AF)			
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area
Oxnard Wastewater Treatment Plant	Oxnard WWTP	Oxnard WWTP	CA0054097	Ocean outfall	No	Tertiary	20,053	19,448	605	0
						Total	20,053	19,448	605	0

NOTES:

6.5.3. Recycled Water System

The City of Oxnard constructed the AWPF in 2009 to treat a portion of the secondary effluent from the wastewater treatment plant using membrane filtration, reverse osmosis and ultraviolet/advanced oxidation. This advanced treated recycled water is intended to be used for landscape and agricultural irrigation.

The Recycled Water Backbone System pipelines were constructed in 2011 and consist of over 12 miles of pipeline. Figure 6-3 shows the Recycled Water System. The PWIMP Recycled Water Project Memorandum 4.1 Background Summary provides further information on the City's recycled water facilities.

6.5.4. Recycled Water Beneficial Uses

6.5.4.1. Current and Planned Uses of Recycled Water

As mentioned previously, the GREAT Program was established to make use of recycled water for landscape and agricultural irrigation. In recent years, the City 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 using recycled water is the River Ridge Golf Course, which had previously used its own groundwater well. The RiverPark development is expected to come online in 2016 and will use recycled water for landscape irrigation of parks, schools and common areas. The City will then consider retrofits of schools and parks as funding becomes available. The total estimated recycled water demand for urban irrigation within the City is 1,475 AFY.

In January of 2015, the City entered into 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 the City'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 the City's customers. These agricultural customers grow several crops including sod, strawberries, celery, and other row crops.

Table 6-4 Retail: Current and Projected Recycled Water Direct Beneficial Uses Within Service Area (AF)									
☐	Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table below.								
Name of Agency Producing (Treating) the Recycled Water:			City of Oxnard						
Name of Agency Operating the Recycled Water Distribution System:			City of Oxnard						
Supplemental Water Added in 2015			0						
Source of 2015 Supplemental Water			0						
Beneficial Use Type		General Description of 2015 Uses	Level of Treatment	2015	2020	2025	2030	2035	2040 (opt)
Agricultural irrigation			Advanced		3,850	4,350	4,850	5,350	5,850
Landscape irrigation (excludes golf courses)			Advanced		175	175	175	175	175
Golf course irrigation			Advanced	605	650	650	650	650	650
Commercial use									
Industrial use			Advanced		800	800	800	800	800
Geothermal and other energy production									
Seawater intrusion barrier									
Recreational impoundment									
Wetlands or wildlife habitat									
Groundwater recharge (IPR)			Advanced		1,525	6,025	4,525	3,025	1,525
Surface water augmentation (IPR)									
Direct potable reuse			Advanced			2,000	3,000	4,000	5,000
Other	Type of Use								
			Total:	605	7,000	14,000	14,000	14,000	14,000
IPR - Indirect Potable Reuse									
NOTES: Projections from Table 7 of PM 4.1 Recycled Water December 2015; Golf course irrigation use modified from PM 4.1 based on current use provided by City. Agricultural use is outside the City's municipal boundary.									

6.5.4.2. Planned versus Actual Use of Recycled Water

Oxnard's planned versus actual use of recycled water is shown in Table 6-5. The planned recycled water use is taken from the 2010 UWMP.

Table 6-5 Retail: 2010 UWMP Recycled Water Use Projection Compared to 2015 Actual (AF)

	Recycled water was not used in 2010 nor projected for use in 2015. The supplier will not complete the table below.

Use Type		2010 Projection for 2015	2015 actual use
Agricultural irrigation		5,000	0
Landscape irrigation (exc golf courses)		1,200	0
Golf course irrigation		200	605
Commercial use			0
Industrial use		600	0
Geothermal and other energy production			0
Seawater intrusion barrier			0
Recreational impoundment			0
Wetlands or wildlife habitat			0
Groundwater recharge (IPR)			0
Surface water augmentation (IPR)			0
Direct potable reuse			0
Other	*Type of Use*		0
Total		7,000	605

NOTES: The 2010 projection for 2015 for agricultural irrigation included a statement indicating any recycled water not used would be injected into the ground. The 2010 projection for 2015 for landscape irrigation included golf course irrigation. The sum for 2010 projections for 2015 in the 2010 UWMP did not add up to 7,000 AFY; the 200 difference has been shown here for golf course irrigation.

6.5.5. Actions to Encourage and Optimize Future Recycled Water Use

The City has Ordinance No. 2728 Requirements for Use of Recycled Water in requiring the use of recycled water when it is available, a copy of which is provided at https://www.oxnard.org/city-department/public-works/water-section/water-ordinances/. Table 6-6 summarizes methods to expand future water uses. Future developments may be required to install a dual pipe system for recycled water for irrigation as a condition of approval. The Public Works Department works closely with the Planning Department to review developments for potential recycled water uses. As funding becomes available, the City will implement conversion of parks and schools to recycled water use. The City anticipates this occurring between 2017 and 2020.

Once the Pilot Groundwater Recharge project is completed in 2016, the City intends to evaluate the results and work with regulatory agencies to expand the use of recycled water for groundwater recharge.

Table 6-6 Retail: Methods to Expand Future Recycled Water Use (AF)			
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use
Landscape Irrigation	Convert parks and schools to recycled water use	2017-2020	175
IPR	Construction of additional ASR wells for groundwater recharge	2020-2025	6,025
		Total	6,200
NOTES:			

6.6. Desalinated Water Opportunities

Oxnard currently operates Desalter #1 at its Water Campus. Desalter #1 has a capacity of 8,400 AFY with room for planned expansions to 16,800 AFY. The Desalter is one of the major components of Oxnard's GREAT program; other components include recycled water system (wastewater treatment by the AWPF), groundwater injection of recycled water, and brine collection from AWPF and Desalter for treatment. The Desalter treats groundwater for Total Dissolved Solids (TDS) and nitrate reduction.

The Desalter, a 7.5-mgd reverse osmosis treatment facility for brackish groundwater, was in operation from December 2008 until late 2011. In December 2011, Wells 32 and 33 began producing fine sand, indicating well problems and were taken out of service in order to prevent damage to the Desalter. Production from Well 34 was insufficient to operate the Desalter, so the Desalter was shut down in January 2012. Staff initiated standby procedures to preserve the reverse osmosis membranes and meet membrane warranty requirements. With the aid of a hydrogeologist, the cause of the well failure was determined. The wells were repaired in late 2013. The Desalter equipment was also assessed and repaired. The Desalter resumed operation in July 2014.

In addition to brackish groundwater desalination projects, Oxnard has evaluated potentially pursuing seawater desalination projects. Seawater desalination was reviewed as an alternative to future AWPF expansions during the 2012 study for the GREAT program and found to be not cost effective. Oxnard again analyzed seawater desalination in 2015 as a comparative cost to AWPF expansion. The intake infrastructure required to take in seawater into a treatment facility would be both significant and difficult to get permitted, making this alternative even less attractive. However, if the expansion capacity of the AWPF is limited by the secondary effluent available, seawater desalination could be a more viable future alternative.

6.7. Exchanges or Transfers

6.7.1. Exchanges

Oxnard, CMWD and PHWA entered into a Three Party Agreement in 2002, which provides PHWA with CMWD water through Oxnard's Calleguas pipeline. Oxnard obtains an annual transfer of 700 AF of FCGMA credits from PHWA as one of the provisions of the Three Party Agreement.

6.7.2. Transfers

When private well systems are converted to City water, the private well groundwater allocations are transferred to Oxnard. Historically, the transferred allocations were two AFY per acre. This amount was reduced by 25% per Ordinance No. 8 and again by 20% though Emergency Ordinance E, resulting in a current potential transfer of 1.2 AFY per acre. Similarly, when agricultural users are converted to recycled water, the agricultural well allocations are expected to be transferred to Oxnard.

Oxnard's participation in the Ferro Pit Program yielded a larger outcome. Oxnard helped UWCD purchase an additional Ferro Pit recharge basin in exchange for a one-time transfer of 11,000 AF of Good Deed Credit Trust groundwater credits. The Ferro Pit Program is intended to provide an additional 1,000 AF of credits each year from 2012 through 2019. Due to FCGMA's Emergency Ordinance E, these transfers have not occurred in 2014 and 2015. Future transfers are uncertain at this time.

6.7.3. Emergency Interties

Oxnard has interconnections with other water purveyors: one with the Port Hueneme Water Agency, one with the City of Port Hueneme, two with Channel Islands Beach Community Services District, and two with Naval Base Ventura County. Oxnard has discussed an emergency intertie with the City of Ventura. Funding is currently under review by both agencies for a potential implementation in the future.

6.8. Future Water Projects

PWIMP Project Memorandum 2.5 Supply and Treatment Alternatives (Carollo, 2015) evaluates supply options for Oxnard. Table 6-7 summarizes the future water supply projects. In order to meet Oxnard's projected 2040 demand, an array of additional projects is needed to provide a reliable, redundant and sustainable water supply into the future. The projects are categorized as water supply sustainability, rehabilitation / replacement, or operation optimization. The comprehensive list is found in Project Memorandum 2.5, but the major components are described here.

- Capital improvements to wells, booster pumps, disinfection, storage, distribution piping are necessary for continued delivery of water and recycled water.

- An expansion of the AWPF will add an additional 7,000 AFY of new water supply to the City, which would be used for groundwater recharge. The AWPF expansion could be completed in two phases: expand to 12.5 mgd by 2019 and expand to 18.75 mgd by 2030.

- Discussed in Section 6.54, ASR wells would inject advanced treated water from the AWPF in the Oxnard Plain Basin Lower Aquifer System for conjunctive use storage. The ASR wells could be completed in three phases: construct a demonstration ASR well by 2016, construct three duty and three standby ASR wells by 2020, and construct six duty and three standby ASR wells by 2031. Since the expected increase in recycled water use due to the ASR wells is tabulated in Table 6-6, it is not included in Table 6-7.

- An expansion of the groundwater Desalter facility would not add water supply to the City's portfolio as they are limited to their allocation from the FCGMA. The Desalter expansion could be completed in two phases: expand to 11.25 mgd by 2025 and expand to 15 mgd by 2031.

Table 6-7 Retail: 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.					
42	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 (AF)
	Yes or No	*If Yes, Agency Name*				
Expand AWPF	No			2020-2025	Average Year, Single-Dry Year, Multiple-Dry Year	7,000
NOTES:						

6.9. Summary of Existing and Planned Sources of Water

The actual water supplied to Oxnard in 2015 is summarized in Table 6-8 and is lower than average primarily due to statewide mandatory conservation. Table 6-9 summarizes Oxnard's water supply projected available through 2040.

Table 6-8 Retail: Water Supplies — Actual (AF)

Water Supply	Additional Detail on Water Supply	2015		
		Actual Volume	Water Quality *Drop Down List*	Total Right or Safe Yield *(optional)*
Groundwater	*City Groundwater*	7,110	Drinking Water	
Purchased or Imported Water	*United Water Conservation District*	7,344	Drinking Water	
Purchased or Imported Water	*Calleguas Municipal Water District*	10,612	Drinking Water	
Total		25,066		0
NOTES: City groundwater includes 835 AF of brine from the Desalter facility.				

Table 6-9 Retail: 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	City's TEA effective 1/1/16 plus Recycled Water in storage	14,186		21,186		21,186		21,186		21,186	
Purchased or Imported Water	United Water Conservation District TEA effective 1/1/16	7,329		7,329		7,329		7,329		7,329	
Purchased or Imported Water	Calleguas MWD	11,826		11,826		11,826		11,826		11,826	
Recycled Water		7,000		14,000		14,000		14,000		14,000	
Total		40,341	0	54,341	0	54,341	0	54,341	0	54,341	0
NOTES: The Desalter treats groundwater, therefore is not included as a separate line item of Desalinated Water. Groundwater includes 7,186 AFY from well extraction plus recycled water supply from groundwater recharge, 7,000 AFY in 2020, 14,000 AFY effective 2025. Recycled Water includes the 8,525 AFY of ASR starting in 2025.											

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Section 7. Water Supply Reliability Assessment

The Act requires urban water suppliers to assess water supply reliability that compares total projected water used 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 the City's service area.

It is the stated goal of the City of Oxnard to deliver a reliable and high quality water supply for its 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 Plan successfully achieves this goal.

7.1. Constraints on Water Sources

Oxnard has various water supply sources available (groundwater, imported water and purchased water) to meet demands during normal, single-dry, and multiple-dry years. In the future, recycled water will also become part of Oxnard's water supply portfolio. The reliability of these sources is discussed below.

Groundwater: The Oxnard Plain Basin is intended as the primary sources of water supplying Oxnard's service area in the years to come. The basin is subject to the jurisdiction of the FCGMA who implements policies intended to maintain the sustainability of the basin and prevent seawater intrusion. The recent drought has exacerbated the fragility of this basin, resulting in reduced allocations to municipal pumpers. The completion of the Sustainable Groundwater Management Plan, currently underway by the FCGMA, will address the long-term sustainability of the basin for municipal and agricultural pumpers.

Imported Water: Imported surface water from Calleguas MWD is subject to cutbacks from DWR for legal, environmental and climactic reasons.

Purchased Water: The UWCD's O-H System extraction is also subject to FCGMA and Emergency Ordinance E.

Recycled Water: Oxnard's recycled water supply will not be affected by weather because irrigation demand does not contribute to wastewater flows. For this reason rainfall does not influence flows from the wastewater system, and therefore does not affect the availability of recycled water. Recycled water is commonly viewed as a drought proof supply and is assumed to be 100 percent reliable.

7.2. Reliability by Type of Year

7.2.1. Types of Years

In order to determine Oxnard's water supply reliability, an assessment was developed to compare 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 period. The basis of the water supply and demand assessment are summarized in Table 7-1.

Table 7-1 Retail: 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	% of Average Supply
Average Year	2010	27,793	100%
Single-Dry Year	2012	27,039	97%
Multiple-Dry Years 1st Year	2013	26,701	96%
Multiple-Dry Years 2nd Year	2014	26,474	95%
Multiple-Dry Years 3rd Year	2015	25,066	90%
NOTES: Listed water use for 2012-2014 years were adjusted to create supply reduction trend from 2010 to 2015. Supply reduction reflects reduced supply from purchased water sources.			

7.2.2. Agencies with Multiple Sources of Water

The terms of single-dry year and multiple-dry years refer to years when water supplies are the lowest. This occurs primarily when precipitation is lower than the long-term average precipitation. The impact of low precipitation in a given year on a particular supply may differ based on how low the precipitation is, or whether the year follows a high-precipitation year or another low-precipitation year. For example, with imported supplies, a low precipitation year may or may not affect supplies, depending on how much SWP water has been stored at the beginning of the year. However, the continuing drought conditions and statewide mandated water conservation have established the 2012 to 2015 as the multiple dry year period for all of Oxnard's supply sources.

7.3. Supply and Demand Assessment

Supply and demand assessments for normal year, single dry year and multiple dry years are shown in Tables 7-2, 7-3, and 7-4, respectively.

Table 7-2 Retail: Normal Year Supply and Demand Comparison					
	2020	2025	2030	2035	2040 *(Opt)*
Supply totals *(from Table 6-9)*	40,341	54,341	54,341	54,341	54,341
Demand totals *(from Table 4-3)*	39,664	48,054	49,445	50,835	52,225
Difference	677	6,287	4,896	3,506	2,116
NOTES: Total available supply listed. Some surplus for drought conditions.					

Table 7-3 Retail: Single Dry Year Supply and Demand Comparison					
	2020	2025	2030	2035	2040 (Opt)
Supply totals	39,247	52,867	52,867	52,867	52,867
Demand totals	39,664	48,054	49,445	50,835	52,225
Difference	(417)	4,813	3,422	2,032	642
NOTES: Demands do not reflect reductions due to drought Demand Management Measures or conservative public use.					

Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison						
		2020	2025	2030	2035	2040 (Opt)
First year	Supply totals	38,756	52,206	52,206	52,206	52,206
	Demand totals	39,664	48,054	49,445	50,835	52,225
	Difference	(908)	4,152	2,761	1,371	(19)
Second year	Supply totals	38,426	51,762	51,762	51,762	51,762
	Demand totals	39,664	48,054	49,445	50,835	52,225
	Difference	(1,238)	3,708	2,317	927	(463)
Third year	Supply totals	36,383	49,009	49,009	49,009	49,009
	Demand totals	39,664	48,054	49,445	50,835	52,225
	Difference	(3,281)	955	(436)	(1,826)	(3,216)
NOTES: Demands do not reflect reductions due to drought Demand Management Measures or conservative public use.						

Demands listed in Tables 7-3 and 7-4 are conservative in that they do not include reductions due to drought demand management measures or public conservation efforts during drought conditions. Additional supplies could also be available from CMWD.

7.4. Regional Supply Reliability

Purchased or Imported Water. Calleguas MWD, the whole importer of SWP water, has invested in regional projects to enhance local supply reliability, including the construction of the Salinity Management Pipeline (SMP) to assist local purveyors in the development of brackish groundwater as a water supply. This strategy will make imported SWP supplies more reliable as individual purveyors make use of local supplies. Additionally, Calleguas promotes water conservation programs, participates in groundwater sustainability programs, and facilitates collaborative planning of water supply projects with its purveyors. Calleguas expects to be able to meet purveyor demands into the future.

Oxnard's purchased water from United Water Conservation District is subject to the Sustainable Groundwater Management Act (SGMA) of 2014, which 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 Oxnard-Hueneme 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.

Groundwater. Similarly, Oxnard's own groundwater supplies are subject to the SGMA; FCGMA is serving as the lead agency for preparation of the GSP. Because of the uncertainty of Oxnard's groundwater allocation into the future, Oxnard plans to use recycled water for groundwater recharge.

Recycled Water. Oxnard has embarked on the GREAT Program and invested resources to provide for more local reliability of water resources, specifically an advanced treated water facility to produce high quality recycled water, which is considered drought-proof. The Pilot ASR well project will be implemented in 2016 and the results will pave the way for future injection/extraction scenarios with recycled water.

Section 8. Water Shortage Contingency Planning

Water suppliers may be interrupted or reduced significantly in a number of ways, such as a drought which limits supplies, an earthquake which damages water delivery or storage facilities, a regional power outage, or a toxic spill that affects water quality.

This chapter of the Plan describes how the City plans to respond to such emergencies so that emergency needs are met promptly and equitably. The City has established diverse approaches to meeting future water demands including: facility improvements and increased deliveries of local groundwater; increased deliveries of imported water; implementing a recycled water program; and supporting water demand management programs. This has allowed the City, to date, to meet demands in spite of drought conditions. Water shortages can be triggered by a hydrologic limitation in supply (i.e., a prolonged period of below normal precipitation and runoff), limitations or failure of supply and treatment infrastructure, or both. Hydrologic or drought limitations tend to develop and abate more slowly, whereas infrastructure failure tends to happen quickly and relatively unpredictably. The following section summarizes the City's plan to respond to such emergencies so that water demands are met promptly and equitably.

Ordinances No. 2729 and No. 2810 contained within City Code Chapter 22, Articles VII, IX, and X, establish the City's contingency plan. Prohibitions, penalties and financial impacts of shortages are described in these sections of City Code and are summarized in this chapter.

8.1. Stages of Action

The City's first water shortage emergency procedures were established in 1991 by Ordinance No. 2246, but were later entirely repealed and restated by Ordinance No. 2729 in 2006. This ordinance established new water conservation and water shortage response procedures under Chapter 22, Article IX of the Oxnard City Code. Article IX, which is also titled the "City of Oxnard Water Conservation and Water Shortage Response Ordinance," was later amended with language of Ordinance No. 2810 in 2009, which also provided amendments to Articles VIII and X, on Water Waste and Recycled Water Use, respectively. Copies of Ordinances 2729, 2810 and 2826 are provided online at: https://www.oxnard.org/city-department/public-works/water-section/water-ordinances/

These amendments to City Code were deemed necessary to manage the City's potable water supply and to avoid or minimize the effects of drought and water supply variations within the City. The 2009 Ordinance establishes permanent water conservation standards to maximize water use efficiency for non-shortage conditions and refines response actions implemented during water shortage conditions. The conservation resulting from improved water use efficiency should help ensure a reliable and sustainable minimum supply of water for the public health, safety and welfare by maintaining local and imported water resources. Most recently, Ordinance No. 2826 in 2010 provided additional modifications, although minor, to the language pertaining to Water Waste.

Table 8-1 Retail : Stages of WSCP		
Stage	Complete One or Both	
	Percent Supply Reduction[1]	Water Supply Condition
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 WSCP must address a water shortage of 50%.		
NOTES:		

8.2. Prohibitions on End Uses

As set forth in the City of Oxnard Water Conservation and Water Shortage Response Ordinance within the Oxnard City Code, during a declared water shortage condition the water sources available to the City will be put to the maximum beneficial use to the greatest extent possible. The waste or unreasonable use of water will be prevented, and water available will be conserved for public welfare in the interests of City residents. The primary purpose of the Ordinance is to provide response procedures for use during water shortages, including procedures that will significantly reduce the consumption of City water over an extended period of time. The aim is to extend the water available to City residents while reducing the hardship on the City and the general public to the greatest extent possible. Table 8-2 provides a summary of restrictions and prohibitions on end users during a declared water shortage.

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?
1-4	Landscape - Restrict or prohibit runoff from landscape irrigation		Yes
1-4	Landscape - Limit landscape irrigation to specific times		Yes
2-4	Landscape - Limit landscape irrigation to specific days		Yes
2-4	CII - Lodging establishment must offer opt out of linen service		Yes
1-4	CII - Restaurants may only serve water upon request		Yes
1-4	Water Features - Restrict water use for decorative water features, such as		Yes
1-4	Other - Customers must repair leaks, breaks, and malfunctions in a timely		Yes
1-4	Other - Require automatic shut of hoses		Yes
1-4	Other - Prohibit use of potable water for washing hard surfaces		Yes
1-4	Pools and Spas - Require covers for pools and spas		Yes
1-4	Other - Prohibit vehicle washing except at facilities using recycled or recirculating		Yes
2-4	Other	Irrigation of newly constructed home and building exteriors with potable water is prohibited unless drip or microspray systems are used	Yes
2-4	Other	Irrigation of ornamental turf on public medians with potable water is prohibited	Yes
2-4	Other	Application of potable water to landscapes during and within 48 hours after measureable rainfall is prohibited	Yes
NOTES:			

8.3. Penalties, Charges, Other Enforcement of Prohibitions

During non-shortage conditions, any waste or unreasonable use of water is prohibited, and conservation of water within and outside the City limits is mandatory in Oxnard. Examples of Oxnard's general water waste prohibitions and restrictions include limits on outdoor irrigation watering hours; limits on running water duration; no run-off; drinking water service upon request (water served only upon customer request at public places where food is served); various prohibitions in the commercial sector; no filling or refilling of swimming pools; and waste in general, including any indiscriminate use of water which is wasteful. In times of a water shortage, water use restricted under the general prohibition will also comply with any reduction levels described in a water shortage condition resolution adopted by City Council.

Resolution No. 14682 passed by the City Council on July 29, 2014 included penalties up to $500 per infraction for each day in which a violation occurs. Resolution No. 14781 adopted on May 5, 2015 extended this provision until amended or rescinded by the Council.

The Water Conservation staff is diligent in monitoring water waste. The City's website encouraged the public to report water waste activities after the adoption of Resolution No. 14682. The Water Department responded to 637 water waste complaints in 2014 and 1,519 complaints in 2015. Eight citations were issued in 2014 and 22 in 2015.

8.4. Consumption Reduction Methods

Water supplies as well as other public facilities can be negatively impacted by catastrophic events, including regional power outages and earthquakes. Compared to many other purveyors the City is well-positioned to respond to such events because:

- The City has accumulated groundwater credits in the Oxnard Basin equal to 24 months of imported water.
- The City has multiple sources of water, currently from CMWD, UWCD and City wells.
- The City's pipeline system has a tremendous by-pass system ("looping"), referring to the interconnection of pipelines and avoidance of critical pipelines where a break due to a seismic event, for example, would leave substantial areas of the City without water.
- In terms of a regional power outage, the City has back-up diesel generators at its major facilities (i.e., blending stations and water wells). UWCD also has generation capacity. There is also additional pumping capacity plus diesel-powered generation capacity at all wellfields and the desalter.

8.4.1. Categories of Consumption Reduction Methods

Oxnard's Water Conservation staff proactively monitors and responds to water use reports. Additionally, the City's website highlights water conservation prominently. Additional postcards are mailed to customers to explain current water restrictions and messages are placed on monthly water bills. Staff from other departments will assist with water waste patrols. The City currently has a net-zero policy on new development which requires a proposed development to provide their groundwater allocation to the City (subject to FCGMA approval) or contribute to City programs designed to offset potable water use. Table 8-3 describes the consumption reduction methods.

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)*
1-4	Expand Public Information Campaign	
1-4	Provide Rebates on Plumbing Fixtures and Devices	
2-4	Increase Water Waste Patrols	
1-4	Moratorium or Net Zero Demand Increase on New Connections	
NOTES:		

8.5. Determining Water Shortage Reductions

The City's customers are fully metered and water shortage deductions can be determined based on meter readings.

8.6. Revenue and Expenditure Impacts

Oxnard's water system is run as an enterprise fund. The water rates include a fixed charge and a variable charge. The fixed charge is based on meter size and will not be impacted by reduced water sales. The variable charge will be impacted by reduced water consumption. Oxnard currently "passes through" rate increases from CMWD and UWCD.

8.6.1. Drought Rate Structures and Surcharges

Oxnard does not currently have a drought rate structure or surcharge in place.

8.6.2. Use of Financial Reserves

As described in the 2010 UWMP (Table 8-9), prior to the 2012-2015 drought period the City had reserve revenues capable of accommodating a 10 to 20 percent reduction in revenues. These reserves were used in the 2012-2015 drought period and City is currently in the process of updating its financing.

8.6.3. Other Measures

Oxnard will consider delaying capital improvement projects in the event finances are strained due to water conservation.

8.7. Resolution or Ordinance

Resolution No. 14682 and Resolution No. 14741 are included in Appendix F.

8.8. Catastrophic Supply Interruption

Water supplies as well as other public facilities can be negatively impacted by catastrophic events, including regional power outages and earthquakes. Compared to many other purveyors the City is well-positioned to respond to such events because:

- The City has multiple sources of water, currently from CMWD, UWCD and City wells.
- The City's pipeline system has a tremendous by-pass system ("looping"), referring to the interconnection of pipelines and avoidance of critical pipelines where a break due to a seismic event, for example, would leave substantial areas of the City without water.
- In terms of a regional power outage, the City has back-up diesel generators at its major facilities (i.e., blending stations and water wells). UWCD also has generation capacity. There is also additional pumping capacity plus diesel-powered generation capacity at all wellfields and the desalter.

8.9. Minimum Supply Next Three Years

An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historical sequence for Oxnard's water supply is provided as Table 8-4.

Table 8-4 Retail: Minimum Supply Next Three Years

	2016	2017	2018
Available Water Supply	22,574	22,574	22,574
NOTES: Based on 7,186 AF City groundwater TEA, 7,329 AF UWCD groundwater TEA, and 8,059 AF Calleguas water. Demands assumed for 2015.			

Section 9. Demand Management Measures

This section describes the water Demand Management Measures (DMMs), also known as Best Management Practices (BMPs), implemented by the City of Oxnard as a part of the effort to reduce water demand.

Oxnard is a member of the California Urban Water Conservation Council (CUWCC), establishing a firm commitment to the implementation of the BMPs (or DMMs). The CUWCC is a consensus-based partnership of agencies and organizations concerned with water supply and conservation of natural resources in California. By becoming a member, Oxnard is committed to implement a specific set of locally cost-effective conservation practices in its service area.

For this UWMP, CUWCC members including Oxnard may submit the 2013-2014 BMP report in lieu of describing the DMMs below. Therefore, in Section 9.2, the DMMs (or BMPs) are briefly described for informational purposes and the 2013-2014 BMP report is referenced as required in Section 9.5.

9.1. Demand Management Measures for Wholesale Agencies

This section is not applicable to the City of Oxnard.

9.2. Demand Management Measures for Retail Agencies

9.2.1. Water Waste Prevention Ordinances

As detailed in Section 8, Oxnard restricts water waste through its municipal code ordinance. Ordinances 2729, 2810 and 2826 comprise Oxnard's water waste prevention ordinances. Additionally, the City Council adopted Resolution No. 14682 on July 29, 2014 and Resolution No. 14781 on May 5, 2015, thereby, declaring a Stage 2 water shortage and imposing mandatory water conservation measures.

9.2.2. Metering

Oxnard has fully implemented metering of its water system. The City uses AMR metering systems which identify leaks on the customers' side of the meter. Additionally, Oxnard has begun to identify and locate mixed-use CII meters to evaluate the feasibility of retrofitting the meters with dedicated irrigation meters.

9.2.3. Conservation Pricing

Oxnard has fully implemented conservation pricing with its increasing block water rate schedule. Customers' water meters determine volumetric water use and customers are billed in accordance with the water rate structure. The water service rates have two components: a fixed charge and a usage charge. The fixed charge is based on the meter size. The usage charge is based on the amount of water used in multiple tiers; a set amount of water is allocated for each tier and customers pay a higher rate for additional water usage into the next higher tier. The increasing block water rate schedule (higher unit cost with increased consumption) encourages water conservation.

9.2.4. Public Education and Outreach

Oxnard promotes water conservation through a variety of informational programs and public events. Oxnard offers conservation brochures and posters, activity booklets, public outreach displays, oral presentations, and workshops to inform the public of conservation efforts at a variety of different local community events throughout the year. Oxnard raises awareness about water conservation through paid advertising, press releases, news ads and media events and provides its customers with a water usage comparison on their water bills. Additionally, Oxnard's web page (www.oxnard.org) provides information related to programs, rebates, water saving tips and announcements about

upcoming events. Oxnard also benefits from outreach programs provided through MWD, Calleguas Municipal Water District. Oxnard's water conservation public outreach programs are quantified in its CUWCC biennial reports.

9.2.5. Programs to Assess and Manage Distribution System Real Loss

Oxnard repairs all reported leaks and locates and repairs unreported leaks. Additionally, Oxnard has recently completed a Public Works Integrated Master Planning effort which includes repair and replacement of aging infrastructure including aging pipeline prone to leakage.

Oxnard recognizes the need to optimize local water resources, minimize the need for imported water and discourages wasteful practices. Oxnard conducts water audits, leak detection, and repairs on an ongoing basis. Through metering, Oxnard closely monitors water production and consumption, and investigates any unaccounted-for water to determine water loss. Oxnard's AMR metering systems identify leaks on the customers' side of the meter. If a customer has uncharacteristically high (greater than 20% of the past month) monthly water use, the City contacts the customer for leak evaluation.

Oxnard's field staff regularly watches for water waste and leaks then notifies and works with customers to address the situation. Supervisors, customer service staff, meter readers, and the flushing/sampling crew inspect customer usage routinely for anomalies. Incidents of water waste are investigated and recommendations for correction are provided. Water sources are regulated and can be disconnected in cases of excessive leakage and/or facilities failure.

9.2.6. Water Conservation Program Coordination and Staffing Support

Oxnard has one full time staff person as a designated water conservation coordinator. Additionally, Oxnard is supported by the Calleguas Municipal Water District and MWD conservation programs and their water conservation staff to encourage and promote water efficiency.

9.2.7. Other Demand Management Measures

Residential Plumbing Retrofit – Oxnard provides free water conservation devices to residents at water conservation events and upon request. The free water conservation devices include showerheads, sink aerators, bath aerators, toilet flappers, and hose nozzles.

School Education Programs – Oxnard facilitates school assemblies with the "H2O, Where Do You Go?" show, which meets the state education framework requirement. The City of Oxnard Water Conservation Student Art Contest encourages K-8 grade students to think critically about the importance of water resources and offer creative examples of ways to conserve water. The Art Contest entry form is distributed to all K to 8 grade students within Oxnard's water distribution service area. The entry forms are provided to schools in the four public school districts and several private schools.

Water Conservation Gardens – Oxnard maintains four water conservation gardens. They are located at the Water Campus, South Oxnard Library, Fire Station No. 1, and Fire Station No. 4.

Oxnard customers have access to rebates offered by MWD in collaboration with Calleguas Municipal Water District. These rebates change from year to year but when available, customers are notified by way of bill inserts and with information provided on Oxnard's website.

9.3. Implementation over Past Five Years

The following sections describe the DMMs implemented by the City for the 2011 through 2015 calendar years.

9.3.1. Public Education and Outreach

The City of Oxnard has an active public education and outreach program to educate the public on the importance of water conservation.

Public Education

Over the last five years the City has held an annual student water conservation art contest. In addition to this, the City held 52 educational events for K-12 and secondary education student audiences. From 2011 to 2013 the City implemented a "H2O, Where Did You Go?" education program for elementary level students. Table 9-1 summarizes Oxnard's water conservation education efforts from 2011 to 2015.

Table 9-1: Public Water Conservation Education 2011 to 2015

	2011	2012	2013	2014	2015	Total
K-6 School Visits	2	0	0	0	0	2
High School Visits	1	0	1	6	0	8
Secondary Education	0	0	3	4	0	7
H2O, Where Did you Go?	4	14	17	0	0	35
Total Estimated Student Audience	2,451	7,151	9,910	282	0	19,794

NOTES: No public education activities occurred in 2015 in addition to the student water conservation art contest.

Public Outreach

Oxnard has undertaken 214 public outreach measures between 2011 and 2015. Outreach messages have included subjects related to water conservation, drought, ocean friendly gardens, water wise landscaping, water conservation BMPs, the impact of water conservation on water quality, and available rebate and retrofit offers. Total outreach events from 2011 to 2015 are listed by event type in Table 9-2.

Table 9-2: Public Outreach 2011 to 2015

Outreach Method	2011	2012	2013	2014	2015	Total
Printed Messages	7	6	4	6	7	30
Presentations	7	2	1	10	6	26
Booths at local fairs/events	5	0	0	2	7	14
Website Ads and Updates	8	7	1	6	5	27
Monthly water use reports	12	12	12	12	12	60
Landscape Workshops	4	4	8	4	4	24
News Releases	2	0	0	0	0	2
Newspaper Contacts	3	0	0	3	0	6
Television Contacts	1	4	0	7	0	12
Radio Ads and Interviews	3	0	0	0	2	5
Digital Road Sign or Lawn Sign	0	0	0	4	4	8
					Total	214

NOTES: "Printed Messages" includes fliers, brochures, bill stuffers, door hangers, handouts, messages printed on bill, etc. "Website Ads and Updates" includes updates of oxnardwater.org and ventura.watersavingplants.com "Monthly water use reports" bill provided comparisons of water use to water budget.

9.3.2. Water Conservation Coordination & Support

The City of Oxnard has three staff members assigned to public outreach and support in addition to public alert response staff.

9.3.3. Other DMMs with Significant Impact on Water Use

The City has implemented other DMMs including water waste tracking and device retrofitting. Oxnard water customers were eligible to participate in lawn replacement rebates through Calleguas MWD/MWD.

Water Waste Tracking

The City received water violation/waste and leak alerts from its residents though its 311 emergency number and through its website reporting link: https://www.oxnard.org/report-a-problem/

From 2011 to 2015 the City cataloged 2,290 alerts and issued over 1,274 warnings to reduce wasteful water use. Table 9-3 summarizes documented water waste/leak alerts and issued notices over the last five years. Reported water violation and leak alerts increased from 2013 to 2015 as public awareness of drought conditions increased.

Table 9-3: Water Waste Tracking Summary 2011 to 2015

	2011	2012	2013	2014	2015	Total
Log Entries	62	2	70	637	1,519	2,290
Warnings/Notices issued	62	1	52	>366	>793	>1,274
NOTES: Additional warnings and notices, which have been documented in the City's alert logs, were given in person by staff, by phone or email.						

Device Retrofitting

Oxnard offers free retrofits of bathroom and irrigation fixtures to reduce water loss. Free devices were offered every year for the last five years except for 2013. In the last five years 47,479 devices were provided to Oxnard customers. Table 9-4 provides an annualized summary of distributed water devices and fixtures.

Table 9-4: Device Retrofits 2011 to 2015

Retrofit/Exchange Device	2011	2012	2013	2014	2015	Total
Shower Heads	73	16	0	226	60	375
Sink Aerator	0	6	0	109	32	147
Bath Aerator	0	15	0	233	38	286
Toilet Flapper	0	6	0	0	60	66
Leak Detector Tablets	0	6	0	0	9	15
Residential Toilets	0	679	0	658	0	1337
Commercial Toilets	0	0	0	230	0	230
Precision irrigation nozzles	0	0	0	0	45,023	45,023
					Total:	47,479
NOTES: Device retrofits were not offered in 2013.						

Rebates

Oxnard residents who wish to upgrade to high efficiency appliances are directed to the SoCal Water$mart, which is linked on the City's website. SoCal Water$mart rebates are offered and managed by the MWD in collaboration with CMWD

9.4. Planned Implementation to Achieve Water Use Targets

Through the implementation of its active water conservation program, Oxnard has met its Interim Water Use Target for 2015 and its Confirmed Water use Target for 2020. To maintain this level of water use, Oxnard intends to continue its current level of outreach and programs for the foreseeable future.

9.5. Members of the California Urban Water Conservation Council

In 2004, Oxnard became a signatory to the Memorandum of Understanding Regarding Water Conservation in California and a member of the California Urban Water Conservation Council (CUWCC). The 2013-2014 BMP Report has not yet been submitted.

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Section 10. Plan Adoption, Submittal, and 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 the City's 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 is 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 Retail: Notification to Cities and Counties

City Name	60 Day Notice	Notice of Public Hearing
City of Ventura	☑	☑
City of Camarillo	☑	☑
County Name	**60 Day Notice**	**Notice of Public Hearing**
Ventura County	☑	☑
NOTES: CMWD, PHWA and UWCD also notified.		

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 Oxnard City Council Chambers at 305 West Third Street in Oxnard, California on June 20, 2016 to receive public comments, make any final amendments and adopt this UWMP.

10.3.1. Adoption

A copy of the 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 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 were sent electronically to the DWR.

10.4.2. Electronic Data Submittal

On July 1, 2016 an electronic copy of this 2015 UWMP and associated tables was uploaded to the DWR WUEdata website at: http://wuedata.water.ca.gov.secure/

10.4.3. Submitting a 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 a UWMP to Cities and Counties

Within 30 days of the adoption of this UWMP, copies of the 2015 UWMP were submitted electronically to Ventura County, City of Ventura, City of Camarillo, PHWA, CMWD and UWCD.

10.5. Public Availability

The adopted 2015 UWMP has been made publicly available on the City's website at:

https://www.oxnard.org/wp-content/uploads/2016/06/CITY-OF-OXNARD-2015-URBAN-WATER-MANAGEMENT-PLAN-Final.pdf

10.6. Amending an Adopted UWMP

Any amendments to this 2015 UWMP 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.

APPENDIX A

Notification Letters to Agencies

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6858

Mr. Deven Upadhay, Manager
Water Resource Management Group
Metropolitan Water District of Southern California
P.O. Box 54153
Los Angeles, CA 90054-0153

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Mr. Upadhay,

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

A representative from your agency may appear and be heard at the public hearing on the agency's behalf, or you may write to the City Clerk's Office at 300 West Third Street, Oxnard, California, 93030, in support of or in opposition to this matter. If your agency wishes to challenge this matter in court, you may be limited to raising only those issues that were raised at this public hearing or in written correspondence delivered to the City Clerk at or before the hearing.

If you have any questions, please contact me at 805.385.8153.

Sincerely,

Badaoui Mouderres, P.E.
Interim Environmental Compliance &
Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6865

Ms. Susan Mulligan, General Manager
Calleguas Municipal Water District
2100 Olsen Road
Thousand Oaks, CA 91360

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Ms. Mulligan,

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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805.385.8153

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251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6872

Mr. Mauricio Guardado, General Manager
United Water Conservation District
106 N. 8th Street
Santa Paula, CA 93060

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Mr. Guardado,

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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Public Works Department

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Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6889

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

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Mr. Hickox,

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6896

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

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan**
Changed to June 20, 2016

Dear Mr. Bouchard,

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6902

Mr. Chris Thiesen, Public Works Director
City of Port Hueneme
250 N. Ventura Road
Port Hueneme, CA 93041

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Mr. Thiesen,

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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Sincerely,

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Interim Environmental Compliance &
Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6919

Mr. Jeff Pratt, P.E., Executive Officer
Fox Canyon Groundwater Management Agency
800 S. Victoria Avenue
Ventura, CA 93009

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Mr. Pratt,

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6926

Ms. Sue Hughes, Senior Deputy Executive Officer
CEO Government Affairs
County of Ventura
800 South Victoria Avenue
Ventura, CA 93009

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Ms. Hughes:

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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Sincerely,

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Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6933

Ms. Shana Epstein, General Manager
City of Ventura
336 Sanjon Road
Ventura, CA 93001

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Ms. Epstein:

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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Sincerely,

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Interim Environmental Compliance &
Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6940

Ms. Lucia McGovern
City of Camarillo
601 Carmen Drive
Camarillo, CA 93010

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Ms. McGovern:

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6957

Captain Chris Janke
Naval Base Ventura County
311 Main Road, Suite 1 N45V
Point Mugu, CA 93042

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Captain Janke:

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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Interim Environmental Compliance &
Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6964

Mr. Chris Stephens
Ventura County Resource Management Agency
800 S. Victoria Avenue
Ventura, CA 93009

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan**
Changed to June 20, 2016

Dear Mr. Stephens:

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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badaoui.mouderres@oxnard.org
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Public Works Department

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Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

June 9, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6971

Ms. Andrea Ozdy, Analyst
Ventura Local Agency Formation Commission
800 S. Victoria Avenue
Ventura, CA 93009

Re: **Public Hearing for 2015 City of Oxnard Urban Water Management Plan Changed to June 20, 2016**

Dear Ms. Ozdy:

I previously notified you that the City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The public hearing was originally scheduled for the City of Oxnard City Council meeting on June 21, 2016. The date has been changed to **June 20, 2016, beginning at 5:00 p.m.** The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030.

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251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7010 1060 0002 0357 6130

Mr. Deven Upadhay, Manager
Water Resource Management Group
Metropolitan Water District of Southern California
P.O. Box 54153
Los Angeles, CA 90054-0153

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Mr. Upadhay,

The City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The City is providing you with this notice pursuant to Water Code, section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. When a draft UWMP is available for public review, we will notify you.

The Act also requires that an urban water supplier hold one public hearing before adopting a plan in order to ensure sufficient opportunity for public feedback, input and suggestions. The public hearing is currently scheduled for the City of Oxnard City Council meeting on June 21, 2015, beginning at 7:00 p.m. The public hearing will take place in the City of Oxnard Council Chambers, located at 305 West Third Street, Oxnard, CA 93030. Following the public hearing, the UWMP is scheduled to be adopted by the Oxnard City Council at the same council meeting.

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805.385.8153

Public Works Department

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251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7010 1060 0002 0357 6147

Ms. Susan Mulligan, General Manager
Calleguas Municipal Water District
2100 Olsen Road
Thousand Oaks, CA 91360

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Ms. Mulligan,

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Public Works Department

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Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7010 1060 0002 0357 6154

Mr. Mauricio Guardado, General Manager
United Water Conservation District
106 N. 8th Street
Santa Paula, CA 93060

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

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Program Management Division Manager
badaoui.mouderres@oxnard.org
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Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7010 1060 0002 0357 6123

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

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Mr. Hickox,

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Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7010 1060 0002 0357 6161

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

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Mr. Bouchard,

The City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The City is providing you with this notice pursuant to Water Code, section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. When a draft UWMP is available for public review, we will notify you.

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If you have any questions, please contact me at 805.385.8153.

Sincerely,

Badaoui Mouderres, P.E.
Interim Environmental Compliance &
Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7010 1060 0002 0357 6178

Mr. Chris Thiesen, Public Works Director
City of Port Hueneme
250 N. Ventura Road
Port Hueneme, CA 93041

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Mr. Thiesen,

The City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The City is providing you with this notice pursuant to Water Code, section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. When a draft UWMP is available for public review, we will notify you.

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Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7013 2630 0001 5564 7022

Mr. Jeff Pratt, P.E., Executive Officer
Fox Canyon Groundwater Management Agency
800 S. Victoria Avenue
Ventura, CA 93009

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Mr. Pratt,

The City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The City is providing you with this notice pursuant to Water Code, section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. When a draft UWMP is available for public review, we will notify you.

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805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7010 1060 0002 0357 6185

Ms. Sue Hughes, Senior Deputy Executive Officer
CEO Government Affairs
County of Ventura
800 S. Victoria Avenue
Ventura, CA 93009

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Ms. Hughes:

The City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The City is providing you with this notice pursuant to Water Code, section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. When a draft UWMP is available for public review, we will notify you.

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If you have any questions, please contact me at 805.385.8153.

Sincerely,

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Interim Environmental Compliance &
Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF
OXNARD
CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6773

Ms. Shana Epstein, General Manager
City of Ventura
336 Sanjon Road
Ventura, CA 93001

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Ms. Epstein,

The City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The City is providing you with this notice pursuant to Water Code, section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. When a draft UWMP is available for public review, we will notify you.

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If you have any questions, please contact me at 805.385.8153.

Sincerely,

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Interim Environmental Compliance &
Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6780

Ms. Lucia McGovern
City of Camarillo
601 Carmen Drive
Camarillo, CA 93010

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Ms. McGovern,

The City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The City is providing you with this notice pursuant to Water Code, section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. When a draft UWMP is available for public review, we will notify you.

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If you have any questions, please contact me at 805.385.8153.

Sincerely,

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Interim Environmental Compliance &
Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6797

Captain Chris Janke
Naval Base Ventura County
311 Main Road, Suite 1, N45V
Point Mugu, CA 93042

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Captain Janke,

The City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The City is providing you with this notice pursuant to Water Code, section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. When a draft UWMP is available for public review, we will notify you.

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If you have any questions, please contact me at 805.385.8153.

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Program Management Division Manager
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Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6810

Mr. Chris Stephens
Ventura County Resource Management Agency
800 S. Victoria Avenue
Ventura, CA 93009

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Mr. Stephens,

The City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The City is providing you with this notice pursuant to Water Code, section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. When a draft UWMP is available for public review, we will notify you.

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If you have any questions, please contact me at 805.385.8153.

Sincerely,

Badaoui Mouderres, P.E.
Interim Environmental Compliance &
Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

Public Works Department

Environmental Compliance &
Program Management Division
251 South Hayes Avenue
Oxnard, California 93030-6058
Tel 805.385.8153

CITY OF OXNARD CALIFORNIA

April 26, 2016

CERTIFIED MAIL
7013 2630 0001 5564 6803

Ms. Andrea Ozdy, Analyst
Ventura Local Agency Formation Commission
800 S. Victoria Avenue
Ventura, CA 93009

Re: Notification of Public Hearing for the 2015 City of Oxnard Urban Water Management Plan

Dear Ms. Ozdy,

The City of Oxnard is in the process of preparing its Urban Water Management Plan (UWMP). The City is providing you with this notice pursuant to Water Code, section 10621, subdivision (b) of the Act, which requires an urban water supplier to notify any city or county within which it provides water that it is reviewing its plan and considering changes to the plan. When a draft UWMP is available for public review, we will notify you.

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If you have any questions, please contact me at 805.385.8153.

Sincerely,

Badaoui Mouderres, P.E.
Interim Environmental Compliance &
Program Management Division Manager
badaoui.mouderres@oxnard.org
805.385.8153

APPENDIX B

Public Hearing Notice

Certificate of Publication

Ad #1131673

In Matter of Publication of:

Public Notice

State of California)
))§
County of Ventura)

I, **Darleshia Warner**, hereby certify that the **Ventura County Star Newspaper** has been adjudged a newspaper of general circulation by the Superior Court of California, County of Ventura within the provisions of the Government Code of the State of California, printed in the City of Camarillo, for circulation in the County of Ventura, State of California; that I am a clerk of the printer of said paper; that the annexed clipping is a true printed copy and publishing in said newspaper on the following dates to wit:

June 11, 17, 2016

I, Darleshia Warner certify under penalty of perjury, that the foregoing is true and correct.

Dated this June 17, 2016; in Camarillo, California, County of Ventura.

Darleshia Warner

NOTICE OF PUBLIC HEARING

The Oxnard City Council will conduct a public hearing to consider the following matter on Monday, June 20, 2016 at 5:00 p.m. or as soon thereafter as the matter may be heard, in the Council Chambers, 305 W. Third Street, Oxnard:

City of Oxnard 2015 Urban Water Management Plan, which ensures that the City gives careful consideration to water demands, water supplies, water conservation, alternative water supplies, reliability of water supplies and water quality and has in place water shortage contingency plans.

You may appear and be heard at the public hearing, or you may write to the City Clerk's Office at 300 West Third Street, Oxnard, California, 93030, in support of or in opposition to this matter. If you plan to attend the hearing, staff suggests that you contact the City Clerk's Office at (805) 385-7803 the Thursday prior to the scheduled date to confirm that the hearing has not been rescheduled.

If you challenge this matter in court, you may be limited to raising only those issues that were raised at this public hearing or in written correspondence delivered to the City Clerk at or before the hearing.

Beginning at 5:00 p.m. Channel 10 will televise and broadcast the meeting at which the public hearing will be conducted. For further information, contact Badaoui Mouderres, Public Works Department, 305 West Third Street, 2nd Floor, East Wing, Oxnard, CA 93030 at (805) 385-8153.

Daniel Martinez, City Clerk
Publish: June 11, 17, 2016 Ad No.1131673

In the Superior Court of the State of California

IN AND FOR THE COUNTY OF VENTURA

CERTIFICATE OF PUBLICATION

TYPE OF NOTICE

NOTICE OF PUBLIC HEARING

CITY OF OXNARD 2015 URBAN WATER MANAGEMENT PLAN

STATE OF CALIFORNIA
COUNTY OF VENTURA

I Luis Ayala

hereby certify that Ventura County VIDA Newspaper, is a newspaper of general circulation within the provision of the Government Code of the State of California, printed and published in the County of Ventura, State of California; that I am the Principal Clerk of said newspaper; that the annexed clipping is a true printed copy and published in said newspaper on the following dates, to wit.

June 16, 2016

I certify under penalty of perjury that the foregoing is true and correct, at Oxnard, County of Ventura, State of California , on the

16th day of June 2016

(Signature)

NOTICE OF PUBLIC HEARING

The Oxnard City Council will conduct a public hearing to consider the following matter on Monday, June 20, 2016 at 5:00 p.m. or as soon thereafter as the matter may be heard, in the Council Chambers, 305 W. Third Street, Oxnard:

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Daniel Martinez, City Clerk

Published VCVN Date: 06/16/16

NOTIFICACION DE AUDIENCIA PUBLICA

El Consejo Municipal de Oxnard celebrará una audiencia pública el lunes 20 de junio de 2016 a las 5:00 p.m. o en cuanto sea posible, para que pueda considerarse este asunto en la Sala del Consejo, 305 W. Third Street, Oxnard:

Plan de Gestión del Agua en las Zonas Urbanas de la Ciudad de Oxnard 2015, el cual asegura que el Municipio considera cuidadosamente las demandas de agua, abastecimiento de agua, conservación de agua, opciones alternativas para el suministro de agua, la seguridad del suministro de agua y la calidad del agua y que ha establecido medidas de contingencia en caso de escasez de agua.

Usted puede comparecer y ser oído durante la audiencia pública, o puede escribir a *City Clerk's Office - 300 West Third Street, Oxnard, California, 93030* (Oficina del Secretario Municipal) para apoyar o para oponerse a este asunto. Si va a asistir a la audiencia, el personal sugiere que se comunique con la Oficina del Secretario Municipal al (805) 385-7803 el jueves anterior a la fecha fijada para confirmar que la audiencia no ha sido reprogramada.

Si usted impugna este asunto ante un tribunal, usted podría tener que limitarse a las cuestiones planteadas en esta audiencia pública o en la correspondencia por escrito entregada al Secretario Municipal durante la audiencia o antes de la misma.

A partir de las 5:00 p.m. el Canal 10 televisará la transmisión de la sesión durante la cual se llevará a cabo la audiencia pública. Para más información, comuníquese con Badaoui Mouderres, *Public Works Departmenl, 305 West Third Street, 2nd Floor, East Wing, Oxnard, CA 93030* (Departamento de Obras Públicas) al (805) 385-8153.

Daniel Martinez, Secretario Municipal

Certificate of Publication

Ad #1131673

In Matter of Publication of:

Public Notice

State of California)
))§
County of Ventura)

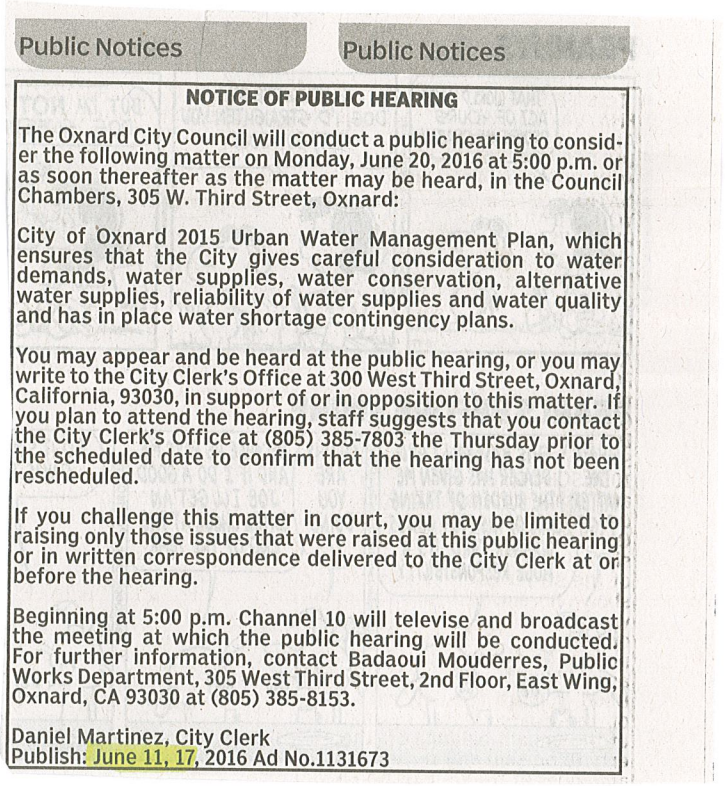
I, **Darleshia Warner**, hereby certify that the **Ventura County Star Newspaper** has been adjudged a newspaper of general circulation by the Superior Court of California, County of Ventura within the provisions of the Government Code of the State of California, printed in the City of Camarillo, for circulation in the County of Ventura, State of California; that I am a clerk of the printer of said paper; that the annexed clipping is a true printed copy and publishing in said newspaper on the following dates to wit:

June 11, 17, 2016

I, Darleshia Warner certify under penalty of perjury, that the foregoing is true and correct.

Dated this June 17, 2016; in Camarillo, California, County of Ventura.

Darleshia Warner



Public Notices Public Notices

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Daniel Martinez, City Clerk
Publish: June 11, 17, 2016 Ad No.1131673

APPENDIX C

Adoption Resolution No. 14,939

CITY COUNCIL OF THE CITY OF OXNARD

RESOLUTION NO. 14,939

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF OXNARD ADOPTING THE CITY'S 2015 URBAN WATER MANAGEMENT PLAN

WHEREAS, the California Urban Water Management Planning Act, Water Code section 10610 *et seq.* (the Act), which the Legislature passed to actively pursue the efficient use of water by requiring urban water suppliers to develop urban water management plans (UWMPs), defines an "urban water supplier" as a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre feet of water annually; and

WHEREAS, the Water Conservation Act of 2009, Water Code section 10608 *et seq.* (SBX7-7), which the Legislature passed to achieve a statewide 20-percent reduction in urban per capita water use on or before December 31, 2020, defines an "urban retail water supplier" as a water supplier, either publicly or privately owned, that directly provides potable municipal water to more than 3,000 end users or that supplies more than 3,000 acre-feet of potable water annually at retail for municipal purposes; and

WHEREAS, the City of Oxnard (City) is an urban water supplier for purposes of the Act and an urban retail water supplier for the purposes of SBX7-7; and

WHEREAS, the Act required every urban water supplier to prepare a 2010 UWMP, and SBX7-7 required every urban retail water supplier to include in its 2010 UWMP the baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data; and

WHEREAS, City staff drafted, the City Council approved, and City staff submitted to the California Department of Water Resources (DWR) the City's 2010 UWMP, as required; and

WHEREAS, the Act further requires each urban water supplier to update and submit its 2015 UWMP to the DWR by July 1, 2016; and

WHEREAS, SBX7-7, among other obligations, established requirements for urban retail water suppliers to report in their 2015 UWMPs their compliance with urban water use targets in accordance with the goals of SBX7-7 to reduce statewide daily per capita water use 10 percent by the year 2015 and 20 percent by the year 2020; and

WHEREAS, in accordance with applicable law, including the requirements of the Act and SBX7-7, the City has prepared its 2015 UWMP and has undertaken certain agency coordination, public notice, public involvement and outreach, public comment, and other procedures in this regard; and

WHEREAS, as authorized by section 10620(e) of the Act, the City has prepared its 2015 UWMP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies. The City has utilized and relied upon industry standards and the expertise of industry professionals in preparing its 2015 UWMP. The City has also in part utilized and relied upon the 2015 Urban Water Management Plans Guidebook for Urban Water Suppliers (January 2016) and the DWR Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use (For the Consistent Implementation of the Water Conservation Act of 2009) (February 2016) in preparing its 2015 UWMP; and

WHEREAS, in accordance with applicable law, including Water Code sections 10608.26 and 10642 and Government Code section 6066, the City made its draft 2015 UWMP available for public inspection and caused to be published within the jurisdiction of the City two notices of public hearing regarding the City's 2015 UWMP, which publication dates included June 11, 2016 and June 17, 2016 in the Ventura County Star; and an additional publication in the Vida Newspaper in both English and Spanish on June 16, 2016; and

WHEREAS, the City held its public hearing on June 20, 2016, in the City Council Chambers of the City, located at 305 West Third Street, Oxnard, California, regarding its 2015 UWMP, wherein, among other things, members of the public and other interested entities were provided with the opportunity to be heard in connection with the City's 2015 UWMP and the proposed adoption thereof; and

WHEREAS, pursuant to said public hearing on the City's 2015 UWMP, the City staff and City Council encouraged the active involvement of diverse social, cultural, and economic elements of the population within the City's service area with regard to the preparation and adoption of its 2015 UWMP, allowed input by members of the public and any other interested parties regarding all aspects of the City's 2015 UWMP, allowed community input regarding the City's implementation plan for complying with SBX7-7, considered the economic impacts of the City's implementation plan for complying with SBX7-7, and affirmed its adoption of Method 3 under Water Code section 10608.20(b) for determining the City's urban water use targets; and

WHEREAS, the City Council has reviewed and considered the purposes and requirements of the Act and SBX7-7, the contents of the City's 2015 UWMP, the documentation contained in the administrative record in support of the City's 2015 UWMP, and all public and agency input received with regard to the City's 2015 UWMP, and the City Council has determined that the factual analyses and conclusions set forth in the City's 2015 UWMP are supported by substantial evidence.

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED BY THE CITY COUNCIL OF THE CITY OF OXNARD AS FOLLOWS:

1. As it did in 2010, the City hereby adopts Method 3 under Water Code section 10608.20(b) for determining its urban water use targets. Method 3 states that the urban retail water supplier uses 95 percent of the applicable State hydrologic region target, as set forth in the State's draft 20x2020 Water Conservation Plan (dated April 30, 2009).

2. The City Council hereby approves and adopts the City's 2015 UWMP and orders that it be filed with the Clerk of the City.

3. The City Council hereby authorizes and directs the City's Public Works Director to incorporate non-substantive edits into the City's final 2015 UWMP.

4. The City Council hereby authorizes the City's Public Works Director to include a copy of this Resolution in the City's 2015 UWMP.

5. In accordance with Water Code section 10644(a), the City Council hereby authorizes and directs the City's Public Works Director to file within thirty (30) days of this Resolution's adoption date the City's 2015 UWMP with the DWR, the California State Library, and all cities and counties within which the City provides water supplies.

6. The City Council hereby authorizes and directs the City's Public Works Director, in accordance with Water Code section 10645, to make the City's 2015 UWMP available for public review during normal business hours not later than thirty (30) days after filing a copy thereof with the DWR.

7. The City Council hereby authorizes and directs the City's Public Works Director, in accordance with Water Code section 10635(b), to provide that portion of the City's 2015 UWMP prepared pursuant to Water Code section 10635(a) to all cities and counties within which the City provides water supplies not later than sixty (60) days after filing a copy thereof with the DWR.

8. The City Council hereby authorizes and directs the City's Public Works Director to implement the components of the City's 2015 UWMP in accordance with the Act and SBX7-7, including, but not limited to, the City's Water Conservation Programs and its Water Shortage Contingency Plan.

9. The City Council hereby authorizes and directs the City's Public Works Director to recommend to the City Council additional steps necessary or appropriate to effectively carry out the implementation of the City's 2015 UWMP, the Act and SBX7-7.

PASSED AND ADOPTED at a regular meeting of the City Council of the City of Oxnard held on June 20, 2016, by the following vote:

AYES: Councilmembers Flynn, Ramirez, MacDonald, Padilla and Perello.
NOES: None.
ABSTAIN: None.
ABSENT: None.

Tim Flynn, Mayor

ATTEST:

Daniel Martinez, City Clerk

APPROVED AS TO FORM:

Stephen M. Fischer, City Attorney

APPENDIX D

Water Loss Calculations

AWWA Free Water Audit Software:
Reporting Worksheet

WAS v5.0

? Click to access definition
+ Click to add a comment

Water Audit Report for: City of Oxnard
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:	7	6,275.000	acre-ft/yr	1.00%		acre-ft/yr
Water imported:	7	19,531.000	acre-ft/yr			acre-ft/yr
Water exported:	n/a		acre-ft/yr			acre-ft/yr
WATER SUPPLIED:		**25,743.871**	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:		22,303.000	acre-ft/yr			
Billed unmetered:			acre-ft/yr			
Unbilled metered:			acre-ft/yr			
Unbilled unmetered:		321.798	acre-ft/yr	1.25%		acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: ? **22,624.798** acre-ft/yr

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

WATER LOSSES (Water Supplied - Authorized Consumption)

3,119.073 acre-ft/yr

Apparent Losses

			Pcnt:	Value:	
Unauthorized consumption:	64.360	acre-ft/yr	0.25%		acre-ft/yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	455.163	acre-ft/yr	2.00%		acre-ft/yr
Systematic data handling errors:	55.758	acre-ft/yr	0.25%		acre-ft/yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: ? **575.280** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **2,543.792** acre-ft/yr

WATER LOSSES: **3,119.073** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: ? **3,440.871** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	577.3	miles
Number of active AND inactive service connections:	41,514	
Service connection density:	72	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

APPENDIX E

SB X7-7 Forms

SB X7-7 Verification Form Version FINAL.1

Table 4-C.4 has been modified from the FINAL version.

WUEdata Entry Exceptions
The data from the tables below will not be entered into WUEdata tables (the tabs for these tables' worksheets are colored **purple**). These tables will be submitted as separate uploads, in Excel, to WUEdata.
Process Water Deduction SB X7-7 tables 4-C, 4-C.1, 4-C.2, 4-C.3, 4-C.4 and 4-D A supplier that will use the process water deduction will complete the appropriate tables in Excel, submit them as a separate upload to the WUE data tool, and include them in its UWMP.
Target Method 2 SB X7-7 tables 7-B, 7-C, and 7-D A supplier that selects Target Method 2 will contact DWR (gwen.huff@water.ca.gov) for SB X7-7 tables 7-B, 7-C, and 7-D.
Target Method 4 These tables are only available online at http://www.dwr.water.ca.gov/wateruseefficiency/sb7/committees/urban/u4/ptm4.cfm A supplier that selects Target Method 4 will save the tables from the website listed above, complete the tables, submit as a separate upload to WUE data, and include them with its UWMP.

SB X7-7 Table 0: Units of Measure Used in UWMP* *(select one from the drop down list)*
Acre Feet
**The unit of measure must be consistent with Table 2-3*
NOTES:

SB X7-7 Table-1: Baseline Period Ranges			
Baseline	**Parameter**	**Value**	**Units**
10- to 15-year baseline period	2008 total water deliveries	28,138	Acre Feet
	2008 total volume of delivered recycled water	-	Acre Feet
	2008 recycled water as a percent of total deliveries	0.00%	Percent
	Number of years in baseline period[1, 2]	10	Years
	Year beginning baseline period range	1999	
	Year ending baseline period range[3]	2008	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2003	
	Year ending baseline period range[4]	2007	

[1] If the 2008 recycled water percent is less than 10 percent, then the first baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater, the first baseline period is a continuous 10- to 15-year period. *[2] The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data.*

[3] The ending year must be between December 31, 2004 and December 31, 2010.

[4] The ending year must be between December 31, 2007 and December 31, 2010.

NOTES:

SB X7-7 Table 2: Method for Population Estimates	
Method Used to Determine Population (may check more than one)	
☐	**1. Department of Finance** (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2011 - 2015) when available
☐	**2. Persons-per-Connection Method**
☑	**3. DWR Population Tool**
☐	**4. Other** DWR recommends pre-review
NOTES:	

SB X7-7 Table 3: Service Area Population		
Year		**Population**
10 to 15 Year Baseline Population		
Year 1	1999	163,423
Year 2	2000	164,463
Year 3	2001	169,318
Year 4	2002	171,989
Year 5	2003	175,205
Year 6	2004	177,991
Year 7	2005	181,075
Year 8	2006	184,384
Year 9	2007	186,490
Year 10	2008	188,860
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2003	175,205
Year 2	2004	177,991
Year 3	2005	181,075
Year 4	2006	184,384
Year 5	2007	186,490
2015 Compliance Year Population		
2015		193,654
NOTES:		

SB X7-7 Table 4: Annual Gross Water Use *								
Baseline Year *Fm SB X7-7 Table 3*		**Volume Into Distribution System** *This column will remain blank until SB X7-7 Table 4-A is completed.*	**Deductions**					**Annual Gross Water Use**
			Exported Water	**Change in Dist. System Storage** (+/-)	**Indirect Recycled Water** *This column will remain blank until SB X7-7 Table 4-B is completed.*	**Water Delivered for Agricultural Use**	**Process Water** *This column will remain blank until SB X7-7 Table 4-D is completed.*	
10 to 15 Year Baseline - Gross Water Use								
Year 1	1999	24,449			-		-	24,449
Year 2	2000	26,224			-		-	26,224
Year 3	2001	26,088			-		-	26,088
Year 4	2002	27,208			-		-	27,208
Year 5	2003	26,919			-		-	26,919
Year 6	2004	31,550	1,745		-		-	29,805
Year 7	2005	28,998	1,644		-		-	27,354
Year 8	2006	30,294	2,063		-		-	28,230
Year 9	2007	31,232	2,223		-		-	29,009
Year 10	2008	29,336	1,198		-		-	28,138
Year 11	0	-			-		-	-
Year 12	0	-			-		-	-
Year 13	0	-			-		-	-
Year 14	0	-			-		-	-
Year 15	0	-			-		-	-
10 - 15 year baseline average gross water use								**27,343**
5 Year Baseline - Gross Water Use								
Year 1	2003	26,919			-		-	26,919
Year 2	2004	31,550			-		-	31,550
Year 3	2005	28,998			-		-	28,998
Year 4	2006	30,294			-		-	30,294
Year 5	2007	31,232			-		-	31,232
5 year baseline average gross water use								**29,799**
2015 Compliance Year - Gross Water Use								
2015		25,624	558		-		-	**25,066**

* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3

NOTES: Volume Int Distribution System (Column C) - Exported Water (Column D) = 2010 Histoic Annual System Gross Water Use (Table 2-11 of 2010 UWMP)

SB X7-7 Table 4-A: Volume Entering the Distribution System(s)

Complete one table for each source.

Name of Source	Wells
This water source is:	
☑	The supplier's own water source
☐	A purchased or imported source

Baseline Year *Fm SB X7-7 Table 3*		Volume Entering Distribution System	Meter Error Adjustment* *Optional (+/-)*	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1999	-		-
Year 2	2000	5,319		5,319
Year 3	2001	7,021		7,021
Year 4	2002	6,971		6,971
Year 5	2003	6,784		6,784
Year 6	2004	12,743		12,743
Year 7	2005	12,933		12,933
Year 8	2006	14,056		14,056
Year 9	2007	440		440
Year 10	2008	4,245		4,245
Year 11	0			-
Year 12	0			-
Year 13	0			-
Year 14	0			-
Year 15	0			-
5 Year Baseline - Water into Distribution System				
Year 1	2003	6,784		6,784
Year 2	2004	12,743		12,743
Year 3	2005	12,933		12,933
Year 4	2006	14,056		14,056
Year 5	2007	440		440
2015 Compliance Year - Water into Distribution System				
2015		7,110		7,110

** Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document*

NOTES:

SB X7-7 Table 4-A: Volume Entering the Distribution				
Name of Source	CMWD&UWCD			
This water source is:				
☐	The supplier's own water source			
☑	A purchased or imported source			
Baseline Year *Fm SB X7-7 Table 3*		Volume Entering Distribution System	Meter Error Adjustment* *Optional (+/-)*	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,999	24449		24,449
Year 2	2,000	20905.03		20,905
Year 3	2,001	19067.21		19,067
Year 4	2,002	20237.3		20,237
Year 5	2,003	20135.78		20,136
Year 6	2,004	18806.7516		18,807
Year 7	2,005	16065.0076		16,065
Year 8	2,006	16237.678		16,238
Year 9	2,007	30792.354		30,792
Year 10	2,008	25091		25,091
Year 11	-			0
Year 12	-			0
Year 13	-			0
Year 14	-			0
Year 15	-			0
5 Year Baseline - Water into Distribution System				
Year 1	2,003	20135.78		20,136
Year 2	2,004	18806.7516		18,807
Year 3	2,005	16065.0076		16,065
Year 4	2,006	16237.678		16,238
Year 5	2,007	30792.354		30,792
2015 Compliance Year - Water into Distribution System				
2015		18,514		18,514
** Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document*				
NOTES: Includes supply to PHWA of 558 AF for 2015.				

SB X7-7 Table 5: Gallons Per Capita Per Day (GPCD)				
Baseline Year *Fm SB X7-7 Table 3*		Service Area Population *Fm SB X7-7 Table 3*	Annual Gross Water Use *Fm SB X7-7 Table 4*	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1999	163,423	24,449	134
Year 2	2000	164,463	26,224	142
Year 3	2001	169,318	26,088	138
Year 4	2002	171,989	27,208	141
Year 5	2003	175,205	26,919	137
Year 6	2004	177,991	29,805	149
Year 7	2005	181,075	27,354	135
Year 8	2006	184,384	28,230	137
Year 9	2007	186,490	29,009	139
Year 10	2008	188,860	28,138	133
Year 11	0	-	-	
Year 12	0	-	-	
Year 13	0	-	-	
Year 14	0	-	-	
Year 15	0	-	-	
10-15 Year Average Baseline GPCD				**138**
5 Year Baseline GPCD				
Baseline Year *Fm SB X7-7 Table 3*		Service Area Population *Fm SB X7-7 Table 3*	Gross Water Use *Fm SB X7-7 Table 4*	Daily Per Capita Water Use
Year 1	2003	175,205	26,919	137
Year 2	2004	177,991	31,550	158
Year 3	2005	181,075	28,998	143
Year 4	2006	184,384	30,294	147
Year 5	2007	186,490	31,232	150
5 Year Average Baseline GPCD				**147**
2015 Compliance Year GPCD				
2015		193,654	25,066	**116**
NOTES:				

SB X7-7 Table 6: Gallons per Capita per Day *Summary From Table SB X7-7 Table 5*	
10-15 Year Baseline GPCD	138
5 Year Baseline GPCD	147
2015 Compliance Year GPCD	116
NOTES:	

SB X7-7 Table 7: 2020 Target Method *Select Only One*		
Target Method		Supporting Documentation
☐	Method 1	SB X7-7 Table 7A
☐	Method 2	SB X7-7 Tables 7B, 7C, and 7D *Contact DWR for these tables*
☑	Method 3	SB X7-7 Table 7-E
☐	Method 4	Method 4 Calculator
NOTES:		

SB X7-7 Table 7-E: Target Method 3				
Agency May Select More Than One as Applicable	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets	Method 3 Regional Targets (95%)
☐		North Coast	137	130
☐		North Lahontan	173	164
☐		Sacramento River	176	167
☐		San Francisco Bay	131	124
☐		San Joaquin River	174	165
☐		Central Coast	123	117
☐		Tulare Lake	188	179
☐		South Lahontan	170	162
☑	100%	South Coast	149	142
☐		Colorado River	211	200
Target *(If more than one region is selected, this value is calculated.)*				**142**
NOTES:				

SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target			
5 Year Baseline GPCD *From SB X7-7 Table 5*	Maximum 2020 Target[1]	Calculated 2020 Target[2]	**Confirmed 2020 Target**
147	140	142	**140**

[1] Maximum 2020 Target is 95% of the 5 Year Baseline GPCD *[2] 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.*

NOTES:

SB X7-7 Table 8: 2015 Interim Target GPCD		
Confirmed 2020 Target *Fm SB X7-7 Table 7-F*	10-15 year Baseline GPCD *Fm SB X7-7 Table 5*	**2015 Interim Target GPCD**
140	138	**139**
NOTES:		

SB X7-7 Table 9: 2015 Compliance								
Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments *(in GPCD)* Enter "0" if Adjustment Not Used: Extraordinary Events	Weather Normalization	Economic Adjustment	TOTAL Adjustments	Adjusted 2015 GPCD	2015 GPCD *(Adjusted if applicable)*	**Did Supplier Achieve Targeted Reduction for 2015?**
116	139	*From Methodology 8 (Optional)*	*From Methodology 8 (Optional)*	*From Methodology 8 (Optional)*	-	116	116	**YES**
NOTES:								

APPENDIX F

Waste Prevention Resolutions

RESOLUTION NO. 14,682

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF OXNARD ADOPTING MANDATORY WATER CONSERVATION MEASURES

WHEREAS, on January 17, 2014, the Governor issued a proclamation of a state of emergency under the California Emergency Services Act based on drought conditions; and

WHEREAS, on April 25, 2014, the Governor issued a proclamation of a continued state of emergency under the California Emergency Services Act based on continued drought conditions; and

WHEREAS, the drought conditions that formed the basis of the Governor's emergency proclamations continue to exist; and

WHEREAS, the present year is critically dry and has been immediately preceded by two or more consecutive below normal, dry, or critically dry years; and

WHEREAS, the drought conditions will likely continue through the summer and early fall of 2014; and

WHEREAS, on April 11, 2014, the Fox Canyon Groundwater Management Agency adopted Emergency Ordinance E, imposing restrictions on local groundwater pumping, including Temporary Extraction Allocations (TEA), 20% reduction of the TEA over an 18 month period, and suspension of use of conservation credits; and

WHEREAS, on July 15, 2014, the State Water Resources Control Board adopted emergency regulations imposing statewide mandatory conservation measures, and mandatory conservation requirements for local public water purveyors; and

WHEREAS, consistent with the State Water Resources Control Board emergency regulations, the City of Oxnard hereby declares a Stage 2 water shortage condition exists and imposes the following mandatory conservation requirements on its customers.

NOW THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED BY THE CITY COUNCIL OF THE CITY OF OXNARD AS FOLLOWS:

1. Pursuant to Municipal Code section 22-154, the Council:
    a. Declares a Stage 2 water shortage condition within the City; and
    b. Prohibits or imposes the following activities:

i. The use of running water from a hose, pipe, or faucet to clean buildings, pavement, tile, wood, plastic, driveways, parking lots, and other paved surfaces, is prohibited, except for compelling public health and safety reasons. If allowed, a hose with a positive shut-off nozzle must be used;

ii. All restaurants that provide table service shall post, in a conspicuous place, a notice of water shortage conditions and shall refrain from serving water except upon specific request by a customer;

iii. Use of potable water to fill or refill recreational or ornamental lakes, ponds or fountains is prohibited;

iv. Operators of hotels, motels, and other commercial establishments offering lodgings shall post in each room a notice of water shortage conditions, encouraging water conservation practices;

v. Any use of water that causes runoff to occur beyond the immediate vicinity of use is prohibited;

vi. Watering of lawns, ornamental turf, trees, shrubs, vegetation, landscape and other outside irrigation is prohibited except between 4:00 p.m. and 9:00 a.m. or 6:00 p.m. and 9:00 a.m. during daylight savings, no more than twice a week. Use of a hand held hose with positive shut-off nozzle, bucket, or micro irrigation systems/equipment is encouraged;

vii. Irrigation is permitted for ground cover for fire protection purposes and erosion control;

viii. Boats and vehicles shall be washed only at commercial wash facilities that recycle their wash water; by use of a bucket and hose equipped with a self-closing valve that requires operator pressure to activate the flow of water; or by mobile high pressure/low volume professional services;

ix. Watering to maintain the level of water in swimming pools shall occur only when necessary. A pool cover shall be used to conserve water when the pool is not in use. Draining of pools or refilling shall be done only for health or safety reasons;

x. Irrigation of parks, school ground areas, and road median landscaping will not be permitted more than twice a week and only if necessary.

c. The taking of any action prohibited in subdivision (b) of this section, in addition to any other applicable civil or criminal penalties, is an infraction, punishable by a fine of up to five hundred dollars ($500) for each day in which the violation occurs.

d. This water shortage declaration and associated mandatory water conservation requirements shall expire on June 30, 2015, unless otherwise extended by further action of the Council.

PASSED AND ADOPTED THIS 29th day of July, 2014 by the following vote:

AYES: Councilmembers Flynn, Ramirez, MacDonald, and Perello.
NOES: None.
ABSENT: Councilmember Padilla.

Tim Flynn
Tim Flynn, Mayor

ATTEST:

Lyn McGraw Gr.
Daniel Martinez, City Clerk

APPROVED AS TO FORM:

For
Stephen M. Fischer, Interim City Attorney

RESOLUTION NO. 14,741

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF OXNARD RESCINDING RESOLUTION 14,682 AND ADOPTING NEW MANDATORY WATER CONSERVATION MEASURES

WHEREAS, on January 17, 2014, the Governor issued a proclamation of a state of emergency under the California Emergency Services Act based on drought conditions; and

WHEREAS, on April 25, 2014, the Governor issued a proclamation of a continued state of emergency under the California Emergency Services Act based on continued drought conditions; and

WHEREAS, on April 11, 2014, the Fox Canyon Groundwater Management Agency adopted Emergency Ordinance E, imposing restrictions on local groundwater pumping, including Temporary Extraction Allocations (TEA), 20 percent reduction of the TEA over an 18 month period, and suspension of using conservation credits; and

WHEREAS, the drought conditions that formed the basis of the Governor's emergency proclamations continue to exist; and

WHEREAS, the present year is critically dry and has been immediately preceded by two or more consecutive below normal, dry, or critically dry years; and

WHEREAS, the drought conditions will likely continue for the foreseeable future and additional action by both the State Water Resources Control Board and local water suppliers will likely be necessary to further promote conservation; and

WHEREAS, on July 15, 2014, the State Water Resources Control Board adopted emergency regulations imposing statewide urban water conservation measures for local public water purveyors per 23CCR3.22.5; and

WHEREAS, consistent with these State Water Resources Control Board emergency regulations effective on July 28, 2014 (OAL 2014-0718-01 E), the City of Oxnard declared a Stage 2 water shortage condition exists and imposed the mandatory conservation measures on its customers per Resolution 14,682 dated July 29, 2014; and

WHEREAS, on March 17, 2015, the State Water Resources Control Board re-adopted and further amended the existing emergency regulations imposing statewide urban water conservation measures for local public water purveyors per 23CCR3.22.5. The regulations went into effect on March 27, 2015 (OAL 2015-0320-01 EE) and must be implemented within 45 days – i.e., by May 11, 2015; and

WHEREAS, on April 1, 2015, Governor Brown issued Executive Order B-29-15 imposing an additional 5 percent reduction in potable urban water usage statewide, bringing the new reduction to 25 percent. The Executive Order, which went into effect immediately, specifies additional actions that complement the 25 percent usage reduction.

WHEREAS, although Executive Order B-29-15 was effective immediately, some of the Directives require State Water Resources Control Board follow-through prior to implementation. One such Directive is the reduction of potable urban water usage by 25 percent statewide. As of today, State Water Resources Control Board's draft structure for water use reduction has the City of Oxnard slated at 12 percent. Statewide, reductions range from 8 percent to 36 percent. State Water Resources Control Board expects to finalize the city-specific percentage reductions by May 6, 2015. Office of Administrative Law's approval of these final figures is slated for May 15, 2015.

WHEREAS, consistent with the State Water Resources Control Board's emergency water regulations OAL 2015-0320-01 EE and Executive Order B-29-15, the City of Oxnard hereby rescinds Resolution 14,682 and expands upon existing Ordinance and Code, as outlined below.

NOW THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED BY THE CITY COUNCIL OF THE CITY OF OXNARD AS FOLLOWS:

Pursuant to City Code section 22-154, the Council:

1. Declares a continuance of the Stage 2 water shortage condition within the City.
2. Prohibits or imposes the following activities related to potable water:
    a. The use of potable water in a fountain or other decorative water feature is prohibited, except where the water is part of a recirculating system.
    b. In addition to existing penalties for failure to comply with City Code sections 22-137 through 22-141 and 22-157, the taking of any action prohibited in subdivision (b) of this section, in addition to any other applicable civil or criminal penalties, is an infraction, punishable by a fine of up to five hundred dollars ($500) for each day in which the violation occurs.
    c. Watering of lawns, ornamental turf, trees, shrubs, vegetation, landscape and other outside irrigation is prohibited except between 4:00 p.m. and 9:00 a.m. or 6:00 p.m. and 9:00 a.m. during daylight savings. Additionally, watering is limited to no more than twice a week and only on the designated days per odd and even addresses. Exceptions to allow for irrigation outside of the designated periods include (1) watering of newly installed, drought-tolerant landscapes for up to 1 year after planting, and (2) hand watering of potted plants or stressed vegetation with use of a container (e.g., bucket or watering can) or a hose fitted with a shut-off valve.
    d. Irrigation of newly constructed home and building exteriors with potable water is prohibited unless drip or microspray systems are used.
    e. Irrigation of ornamental turf on public medians with potable water is prohibited.
    f. Irrigation of park and school ground areas with potable water will only be permitted during the twice weekly designated irrigation periods noted in item 2.c. above and only if necessary. Sport activity fields may irrigate more frequently, but only as necessary, to maintain playing surface quality.
    g. Application of potable water to landscapes during and within 48 hours after measurable rainfall is prohibited.

h. Provide prompt notice to customer when information indicates a leak may exist within end-user's control.

3. This water shortage declaration and associated mandatory water conservation requirements shall remain in effect unless otherwise amended or rescinded by further action of the Council.

PASSED AND ADOPTED THIS 05th day of May, 2015 by the following vote:

AYES: Councilmembers Flynn, Ramirez, MacDonald, Padilla and Perello.
NOES: None.
ABSENT: None.

Tim Flynn, Mayor

ATTEST:

Daniel Martinez, City Clerk

APPROVED AS TO FORM:

Stephen M. Fischer, Interim City Attorney