

Lompoc City Council Agenda Item

Council Meeting Date: December 6, 2005

TO: Gary Keefe, City Administrator

FROM: Susan Segovia, Administrative Analyst
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SUBJECT: 2005 Urban Water Management Plan (UWMP)



RECOMMENDATION:

Staff recommends that the City Council adopt Resolution No. 5296(05), which establishes a five year Urban Water Management Plan (UWMP) for the conservation and efficient use of water, pursuant to California Water Code 10610 (et seq.), and authorize the City Administrator to file the Plan with the California Department of Water Resources.

BACKGROUND AND DISCUSSION:

California Water Code 10610 (et seq.) requires that all urban water suppliers 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 must prepare an Urban Water Management Plan and update it at least every five years.

The City of Lompoc prepared its first UWMP in 1985 and subsequent Plans for every five-year period following 1985, to the current 2005 UWMP.

The City of Lompoc's 2005 UWMP is a comprehensive planning document, independent of previous UWMPs. The Plan includes: a history of the City of Lompoc; demographic information; transfer and exchange opportunities; water demand and conservation information; water supply sources; water reliability planning; water use provisions; supply and demand comparison provisions; water Demand Management Measures (DMM); a water shortage contingency plan; a water recycling plan; water quality impacts on reliability; and water service reliability.

The Plan includes information on current and projected water supplies, demand through 2025, and a discussion of the reliability of the City's water supplies. The Plan demonstrates that the City has sufficient water supplies and water reliability through 2025.

The Plan also discusses past, current and projected water use from 2000 through 2025. In 2004 the City of Lompoc residential customers averaged 13,323 households and 2.92 persons per house. Total system per capita water sales, (excluding the surface water usage, which is domestic and stock, and usage for dust control and compaction), averaged 122 gallons per capita per day (gpcd) for 2004. Water conservation programs and voluntary conservation are reducing per capita water use, and are expected to prevent a return to 1989 levels of 155 gpcd.

Table 13 in the UWMP illustrates past, current and projected water use, and the number of water connections from 2000-2025 in acre-feet per year (AFY). Table 13 is based on projected build out in the City's General Plan, additional current development, not included in the General Plan, and an estimate based on historic population growth rate in 2025. Population projections from the City of Lompoc Planning Division through 2015 and an estimate for 2025 were also used. Single-family water consumption is projected to increase approximately 639 AFY over the

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next 20 years. The water conservation programs are expected to help significantly offset the water demand of new customers.

The UWMP proposes continued implementation of existing conservation programs and a possible Lompoc Groundwater Recharge Spreading Basins Project, for a potential future water supply project. The project is based on an original project in 1978, when the State of California Water Resources Control Board issued Permit No. 17447 to the Santa Ynez River Water Conservation District, Parent District. The Permit authorized the diversion of 40,000 acre-feet of water per year from the Santa Ynez River, at a rate of 100 cubic feet per second. The original conceived Project involved a series of diversion dams in the riverbed. Some of these dams were built between 1978 and 1983, but were vandalized. When it became apparent that the designed project was not going to be effective, Stetson Engineers was hired to look at alternative project ideas. A report was prepared in 1980, and updated in 2001, identifying the current Project idea, to divert water between Robinson Bridge and the "H" Street Bridge in Lompoc, allowing it to be channeled into "recharge ponds". Some water sitting in the ponds would infiltrate and be otherwise drawn into the groundwater formations for future use by the City of Lompoc and others downstream. It is estimated that the project could result in the addition of 7,800 AFY to underground storage, which is more than the water used in Lompoc in an average year. The next steps to proceed with this project include environmental review, land acquisition, more thorough design and construction. The estimated increase in stored water, 7,800 AFY, from the Groundwater Recharge/Spreading Basins project is a rough estimate.

The Plan also updates the Water Division's Water Shortage Contingency Plan. The Contingency Plan was originally adopted by the City Council in 1992 and updated in 1995 and 2000. The Contingency Plan includes four stages, which consist of voluntary conservation by Lompoc citizens for Stage 1 and block tiered pricing for Stages 2 through 4. The Shortage Plan has been updated based on current population, customers, water usage and rates.

The Lompoc Utility Commission received an overview of the UWMP on October 10, 2005, and a draft copy of the UWMP at the Commission's November 14, 2005, meeting.

Resolution No. 5296(05) establishes the 2005 UWMP. This is attached and must be approved by the City Council. The 2005 UWMP is also attached.

Susan Segovia, Administrative Analyst

Attachments:

1. Resolution No. 5296(05)
2. 2005 Urban Water Management Plan

APPROVED FOR SUBMITTAL TO THE CITY ADMINISTRATOR:

James W. Beck, Utility Director

APPROVED FOR SUBMITTAL TO CITY COUNCIL:

Gary Keefe, City Administrator