



MEMORANDUM

TO: City Council

FROM: Bill Robeson, Assistant City Manager/Public Works Director

BY: Shane Taylor, Utilities Manager

SUBJECT: Calendar Year 2021 Water Supply and Demand Update

DATE: January 25, 2022

SUMMARY OF ACTION:

The update reports the City's total water supply and demand for Calendar Year 2021. Current Lopez Reservoir level and projected levels are provided in the attachments.

IMPACT ON FINANCIAL AND PERSONNEL RESOURCES:

Approximately two (2) hours of staff time is required to prepare the report.

RECOMMENDATION:

Receive and file the Calendar Year 2021 Water Supply and Demand Report.

BACKGROUND:

On October 21, 2021, the City Council adopted a Resolution declaring a Stage 1 Water Shortage Emergency, and implementing emergency water conservation measures and restrictions as a result of the extreme drought conditions.

In 2021, the City's water use was 2,310.5 acre-feet with a per capita use of 117 gallons per day/per person. There was a total of 14.4 inches of rainfall in the City in 2021.

ANALYSIS OF ISSUES:

The United States Drought Monitor, as of January 12, 2021, shows San Luis Obispo County in a moderate drought. Rainfall to date for the period July 1, 2021, through December 31, 2021, is 7.23 inches at the Corporation Yard rain gauge. Lopez Lake, as of January 12, 2022, is at 30.2% capacity (14,939 acre-feet of storage).

The new water year began on April 1, 2021, and the City's annual Lopez contract supply was 2,290 acre-feet. On August 24, 2021, the San Luis Obispo County Board of Supervisors (Board) enacted the Low Reservoir Response Plan (LRRP) for Lopez Lake. On September 8, 2021, the Zone III Technical Advisory Committee endorsed the action

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of reducing contract deliveries by 10%. The City began reducing the flow of Lopez Lake deliveries on September 15, 2021, to 1.9 million gallons per day, compared to the normal flow of 2.2 million gallons per day. Currently, the deliveries from the Water Treatment Plant are at 1.5 million gallons per day. In addition, the City has 1,323 acre-feet of ground water entitlement from the Santa Maria Basin, and wells within the Pismo Formation that produce approximately 160 acre-feet per year. The first quarter monitoring for the Santa Maria Basin sentry wells was completed on January 4, 2022. The deep well index was 9.36 feet above sea level, which is 1.86 feet higher than the deep well index threshold value of 7.5 feet and 0.08 feet higher than the index value one year ago. The recent rainfall in December did raise Lopez Lake from 28% to 30% full, however the LRRP remains in effect, along with Stage 1 water shortage emergency mandatory reductions. The projected water use for the City of Arroyo Grande for water year 2021/22 is 2,450 acre-feet based on current rainfall.

ALTERNATIVES:

Not applicable at this time.

ADVANTAGES:

This report provides the City Council and the public with the current and projected conditions of our water supply and demand.

DISADVANTAGES:

No disadvantages noted at this time.

ENVIRONMENTAL REVIEW:

No environmental review is required for this item.

PUBLIC NOTIFICATION AND COMMENTS:

The Agenda was posted at City Hall and on the City's website in accordance with Government Code Section 54954.2.

Attachments:

1. Lopez Monthly Operations Report for December 2021
2. Lopez Reservoir Storage Projection
3. Yearly Water Use Comparison