



MEMORANDUM

TO: City Council

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

BY: Shane Taylor, Utilities Manager

SUBJECT: May 2023 Monthly Water Supply and Demand Update

DATE: June 27, 2023

SUMMARY OF ACTION:

The update reports the City's total water supply and demand for May 2023. 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 Monthly Water Supply and Demand Update.

BACKGROUND:

On March 28, 2023, the City Council adopted a Resolution rescinding the declaration of a Stage 1 Water Shortage Emergency and related water shortage restrictions and penalties.

The City of Arroyo Grande's water entitlements are calculated on a water year that begins April 1st. The current water supply for water year 2023/2024 includes 2,290 Acre Feet from Lopez Reservoir, 1,323 Acre Feet of groundwater entitlement from the Santa Maria River Groundwater Basin, and 160 Acre Feet from the City's wells that draw from the Pismo formation.

The predicted water use for 2023/2024 water year is 2,200 Acre Feet.

In May 2023, the City's water use was 171.4 Acre Feet with a per capita use of 100 gallons per day/per person. The residential capita use was 77 gallons per day/per person. There was a total of 0.5 inches of rainfall in the City in May 2023.

Item 9.i.

ANALYSIS OF ISSUES:

The United States Drought Monitor, as of June 14, 2023, shows San Luis Obispo County not in a drought. Rainfall to date for the period of July 1, 2022, through June 14, 2023, is 30.63 inches at the Corporation Yard rain gauge. Lopez Lake as of June 14, 2022, is at 100.1% capacity, or 49,425 Acre Feet.

The 2022/2023 water year ended on March 31, 2023. Lopez Lake began a continuous spill on March 23, 2023, and is still spilling as of June 14, 2023. As of May 31, 2023, 14,284 Acre Feet has spilled from Lopez Lake. Arroyo Grande lost 775 Acre Feet of stored water. An additional 655 Acre Feet of unused entitlement was also lost and all unused downstream release water that was previously declared surplus was also lost to the spill. All District stored water including stored State water was lost.

During a spill, all deliveries are waived and not charged towards contract entitlement.

The deep well index for the second quarter of 2023 was completed on April 11, 2023, and is 12.23 feet above sea level, which is 4.73 feet above the threshold value. The current deep well index is 1.65 feet higher than February 2023 and 4.25 feet higher than April 2022.

ALTERNATIVES:

The following alternatives are provided for Council's consideration.

1. Receive and file the report, or
2. Provide other directions to staff.

ADVANTAGES:

The 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.

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Attachments:

1. Lopez Monthly Operations Report for May 2023
2. Lopez Reservoir Storage Projection
3. Monthly Water Use Comparison
4. Monthly Monitoring Report for May 2023