

LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

MEMORANDUM

DATE: APRIL 26, 2022

TO: BOARD OF DIRECTORS
Lake Arrowhead Community Services District

FROM: CATHERINE CERRI, General Manager

SUBJECT: GENERAL MANAGERS REPORT

A. RECOMMENDATION

This is an information item only.

B. REASON FOR RECOMMENDATION

This is an information item only.

C. BACKGROUND INFORMATION

District Update

The District's Water Operations Department has successfully completed the process that was necessary to bring Groundwater Well #2 back into production. This well has historically produced as much as 37 acre-feet of water in a year but was shut down in 2019 due to water quality concerns. After rehabilitating the well and incorporating some creative solutions by the Water Operations Department to provide extensive flushing, the well has been approved for potable production by regulators.

State Water Supply Conditions

On March 28, 2022, Governor Newsom issued an Executive Order related to extreme and expanding drought conditions across the state of California. In the Order, the Governor requests a reduction in water usage of 15% compared to 2020.

On April 21, 2022, the State Water Resources Control Board provided an overview of the emergency regulation being proposed for water conservation. It is expected that all water agencies will be required to enact Level 2 response actions. In addition, there may be irrigation restrictions for certain for non-functional grass on commercial and HOA properties.

LACSD is currently in a declared Level 3 Water condition which allows for 3 days of irrigation per week. Below is a summary of the various levels from Ordinance 83.

Level	Permanent Restrictions	Irrigation Days	Turf	Enforcement	Public Info	Drought Rates	Connection Moratorium	Reduction
1	X	3	No new	Maintain	Maintain			10%
2	X	3	Reduce	Maintain	Maintain			20%
3	X	3	Reduce	Increased	Increased			30%
4	X	2	Reduce	Increased	Increased			40%
5	X	1	Reduce	Strict	Persistent	X		50%
6	X	0	No Irrig	Strict	Persistent	X	X	50%+

State Water Project allocations started the water year at 0%. After heavy rain, the allocations were raised in January, 2022 to 15%, but were subsequently reduced in March, 2022 to 5%. Reservoir levels are similar to last month at 47% of capacity which is 8% lower than the same time last year. It is anticipated that imported water will not be available for purchase this year.

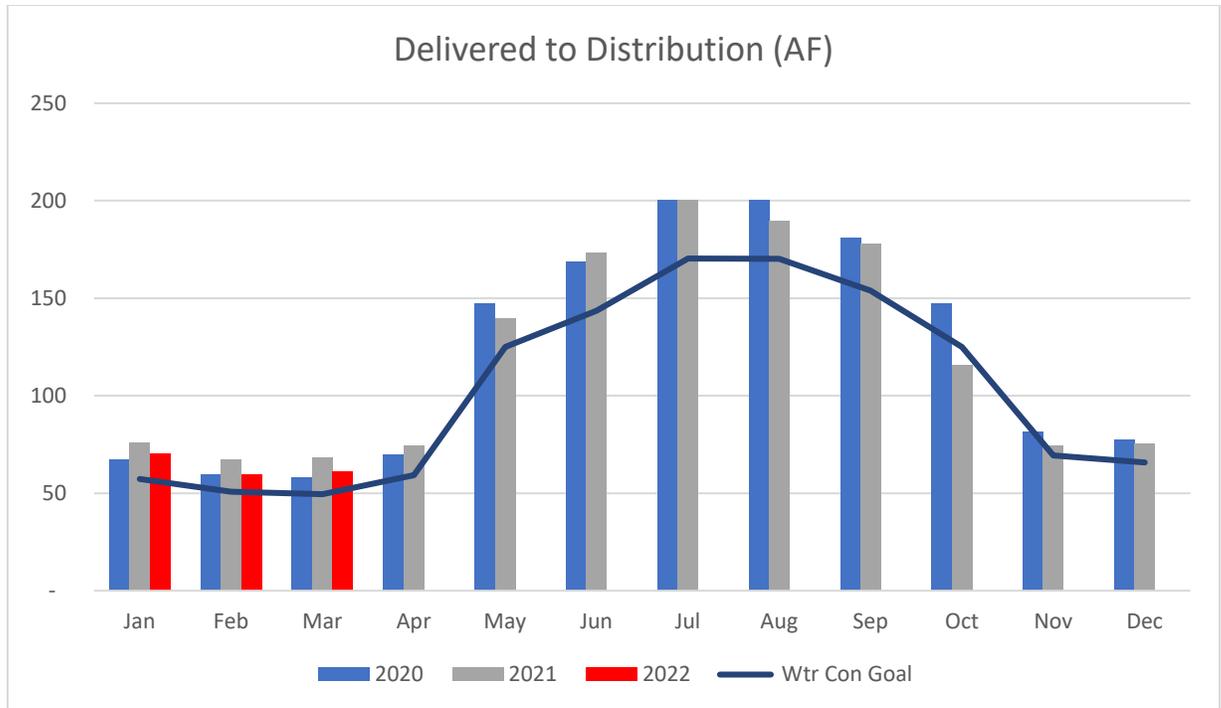
Hydrologic Analysis

Locally, current hydrologic conditions are very similar to last year. If we continue to see below average precipitation for the rest of the water year, the lake will be approximately 7’ below full by November, 2022.

The drought outlook for the Lake Arrowhead area remains at “Moderate to Severe Drought.” We received between 3-4” of precipitation in March. Normally, we receive close to 5”. Lake level is currently at 5,104.1’ which is 6” higher than last year at this time. Because we received a significant amount of rain in December, 2021, we have received 2” more than normal in the first six months of the water year which began October 1st.

Demand Analysis

Water usage in the first three months of calendar year 2022 was 10% lower than the same months in 2021 but 3% higher than 2020 which is what the emergency regulations will be based on. As we try to project usage for the rest of the year, the graph below illustrates how demand started increasing in May of 2020. To meet the goal of a 15% reduction from 2020, we will need to realize a decrease of 11% from 2021 during the remainder of the calendar year.



Water Supply and Demand Summary 2022

	2019	2020	2021	Mar 2022 YTD	Projected	Total 2022
Surface Water	1,106	1,277	1,120	147	941	1,088
Groundwater	198	180	187	47	167	214
Imported Water	47	46	169	-	45	45
Total Supply	1,351	1,503	1,477	195	1,153	1,348
Demand	1,277	1,507	1,411	200	1,188	1,389
Demand Mgmt			(96)	-	(100)	(100)
Total	1,277	1,507	1,507	200	1,088	1,289

Hydrologic Assessment	2017 Average Annual	2018 PY-3 Annual	2019 PY-2 Annual	2020 Total	2021 Total	<u>Projected</u>		
						2022 Total	2023 Total	
Precipitation Gage (in)								
Cedar Glen (SE)	33.06		27.76	66.26	24.52	35.55	13.86	12.2
BJ Admin (SW)	34.26	27.00	28.84	57.74	23.85	30.39	13.59	12.37
Bernina (W)	30.67	25.55	24.67	51.60	20.86	24.03	12.09	13.37
LACC (GV W)	19.72	15.76	12.37	38.61	14.69	25.87	10.69	12.85
Fire Sta #1, 5140 (S)	36.70	31.5	33.68	60.46	28.66	50.04	14.9	29.41
Fire Sta #4, 5280 (W)	28.46	24.13	31.35	59.59	26.57	39.8	9.63	19.58
Precipitation (in)	33.32	25.93	26.84	57.57	23.75	34.28	12.46	14.37
SWP Table A	64%	20-85%	15-35%	10-75%	10-20%	5%	5%	0%

Lake Level Analysis

Lake Level (last day of mo	5101.96	5099.15	5097.47	5103.98	5103.14	5102	5100	5097
Lake Level vs. full	-4.74	-7.55	-9.23	-2.72	-3.56	-4.32	-7.09	-9.89
Evaporation losses	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00
Lake withdrawals (feet)	-2.19	-1.37	-1.23	-1.41	-1.63	-1.43	-1.39	0.00
Precipitation (feet)	2.78	2.16	2.24	4.65	1.92	2.81	1.27	1.20

D. FISCAL IMPACT

This is an information item only.

E. ENVIRONMENTAL IMPACT

This is an information item only.

F. ATTACHMENTS

- LACSD April 8, 2022 Press Release
- Proposed Emergency Regulation

PRESS RELEASE

Date: April 8, 2022

Subject: Water Shortage Conditions

On March 28, 2022, Governor Newsom issued Executive Order N-7-22 related to extreme and expanding drought conditions across the state of California. In the Order, the Governor requests a reduction in water usage of 15% compared to 2020.

The significance for our community is there will be limited opportunity to supplement our local supplies with imported water. Our only supplies will be surface water from Lake Arrowhead and groundwater from our local wells. While the Lake Arrowhead Community Services District (District) is continuing to develop additional groundwater supplies, any decrease in customer water usage will help to reduce the draw from the lake.

Currently, the District is in a declared Level 3 Water Shortage which restricts irrigation to three days per week with increased enforcement and public information. This means that District staff will be providing a persistent message to ensure all of our customers are informed and in compliance. If conditions continue to worsen, the District's Board of Directors may declare a Level 4 Water Shortage which will restrict irrigation to two days per week.

Lake Arrowhead Community District Water Shortage Level Actions

Level	Permanent Restrictions	Irrigation Days	Turf	Enforcement	Public Info	Drought Rates	Connection Moratorium
1	X	3	No new	Maintain	Maintain		
2	X	3	Reduce	Maintain	Maintain		
3	X	3	Reduce	Increased	Increased		
4	X	2	Reduce	Increased	Increased		
5	X	1	Reduce	Strict	Persistent	X	
6	X	0	No Irrig	Strict	Persistent	X	X

Due to the warm weather, many of our customers are turning their irrigation on early this year. According to District Ordinance 83, automatic irrigation is not allowed until May 1st. Because of the current state-wide drought conditions, we are asking the community to voluntarily delay automatic irrigation for as long as possible past the May 1st date.

To learn more about the District's water conservation policies, go to our website at lakearrowheadcsd.com and click on "Conservation". If you have any questions or concerns, please contact us at (909) 336-7100 or email to customerservice@lakearrowheadcsd.com.

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Lake Arrowhead Community Services District provides water to over 8,000 accounts in the communities of Arrowhead Woods, Deer Lodge Park and Rimforest and provides wastewater services to an additional 2,000 accounts in the surrounding communities including Twin Peaks, Blue Jay, Agua Fria and Arrowhead Villas in the San Bernardino Mountains.

WORKING STAFF DRAFT OF PROPOSED TEXT OF OPERATIVE CONSERVATION PROVISIONS OF EMERGENCY REGULATION

Version: April 20, 2022

Title 23. Waters

Division 3. State Water Resources Control Board and Regional Water Quality Control Boards

Chapter 3.5. Urban Water Use Efficiency and Conservation

Article 2. Prevention of Drought Wasteful Water Uses

§ 996. Urban Drought Response Actions

(a) As used in this section:

(1) “Commercial, industrial and institutional” refers to commercial water users, industrial water users, and institutional water users as respectively defined in Water Code, section 10608.12, subdivisions (e), (i), and (j), and includes homeowners’ associations, common interest developments, community service organizations, and other similar entities but does not include the residences of these entities’ members or separate interests.

(2) “Common interest development” has the same meaning as in section 4100 of the Civil Code.

(3) “Community service organization or similar entity” has the same meaning as in section 4110 of the Civil Code.

(4) “Homeowners’ association” means an “association” as defined in section 4080 of the Civil Code.

(5) “Non-functional turf” means turf that is solely ornamental and not regularly used for human recreational purposes or for civic or community events. Non-functional turf does not include sports fields and turf that is regularly used for human recreational purposes or for civic or community events.

(6) “Separate interest” has the same meaning as in section 4185 of the Civil Code.

(7) “Turf” has the same meaning as in section 491.

(8) “Urban water supplier” has the same meaning as Water Code section 10617.

(9) “Water shortage contingency plan” means the plan required by Water Code section 10632.

- (b) Each urban water supplier shall submit to the Department of Water Resources a preliminary annual water supply and demand assessment consistent with section 10632.1 of the Water Code no later than June 1, 2022, and submit a final annual water supply and demand assessment to the Department of Water Resources no later than the deadline set by section 10632.1 of the Water Code.
- (c) Each urban water supplier that has submitted a water shortage contingency plan to the Department of Water Resources shall implement by June 10, 2022, at a minimum, the demand reduction actions identified in the supplier's water shortage contingency plan adopted under Water Code 10632 for a shortage level of up to twenty percent (Level 2).
- (d) Each urban water supplier that has not submitted a water shortage contingency plan to the Department of Water Resources shall, by June 10, 2022, and continuing until the supplier has implemented the demand reduction actions identified in the supplier's water shortage contingency plan adopted under Water Code 10632 for a shortage level of up to twenty percent (Level 2), implement at a minimum the following actions:
- (1) Initiate a public information and outreach campaign for water conservation and promptly and effectively reach the supplier's customers, using efforts such as email, paper mail, bill inserts, customer app notifications, news articles, websites, community events, radio and television, billboards, and social media.
- (2) Implement and enforce a rule or ordinance limiting landscape irrigation to no more than two days per week and prohibiting landscape irrigation between the hours of 10:00 AM and 6:00 PM.
- (3) Implement and enforce a rule or ordinance banning, at a minimum, the water uses prohibited by section 995. Adoption of a rule or ordinance is not required if the supplier has authority to enforce, as infractions, the prohibitions in section 995 and takes enforcement against violations.
- (e) (1) To prevent the unreasonable use of water and to promote water conservation, the use of potable water is prohibited for the irrigation of non-functional turf at commercial, industrial, and institutional sites.
- (2) Notwithstanding subdivision (e)(1), the use of water is not prohibited by this section to the extent necessary to ensure the health of trees and other perennial non-turf plantings or to the extent necessary to address an immediate health and safety need.
- (f) A decision or order issued under this section by the Board, or an officer or employee of the Board, is subject to reconsideration under article 2 (commencing with section 1122) of chapter 4 of part 1 of division 2 of the Water Code.

Authority: Section 1058.5, Water Code.

References: Article X, Section 2, California Constitution; Sections 4080, 4100, 4110, and 4185, Civil Code; Section 8627.7, Government Code; Sections 102, 104, 105, 275, 350, 491, 1122, 10608.12, 10617, 10632, and 10632.1, Water Code; *Light v. State Water Resources Control Board* (2014) 226 Cal.App.4th 1463; *Stanford Vina Ranch Irrigation Co. v. State of California* (2020) 50 Cal.App.5th 976.