

LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

MEMORANDUM

DATE: JANUARY 25, 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

2021 Year in Review

The District continued with various initiatives in 2021 including:

- Completed drilling for the Blue Jay groundwater well
- Completed multiple sewer improvement projects
- Continued to keep sewer overflows at record low levels
- Broke ground on the Spyglass reservoir replacement and slope stabilization project
- Completed physical installation of Battery Energy Storage Project
- Prepared the Urban Water Management Plan in-house
- Prepared the Watershed Sanitary Survey in-house
- Rewrote the Emergency Response Plan in-house according to EPA standards
- Began process for real-time ammonia analysis at GVWWTP
- Maintained strong financial results and low operating costs
- Completed a rate study

Following are some of the goals for 2022:

- Break ground on the Corporation Yard
- Install a solar array

- Complete installation of Battery Energy Storage Project for full functionality
- Upsize the outfall vault
- Continue exploring grant funding opportunities
- Complete installation of new corrosion control treatment process
- Incorporate GIS data as a daily function
- Complete redistricting process
- Research new meter reading technology
- Prepare a model to analyze meter data for seasonal populations
- Research expanded use of recycled water
- Expand groundwater supply
- Bring Groundwater Well #2 back online
- Complete the Blue Jay Groundwater Well
- Install the new screw press at GVWWTP
- Determine best use for WCWWTP
- Finalize the Hillside Ponds investigation
- Replace methanol with a safer and more reliable alternative
- Rehabilitate effluent percolation wells
- Prepare plans for a recycled water reservoir
- Complete the Highway 173 waterline replacement
- Replace the watermain from Edgewater to Village Cove
- Antler Wildrose water main replacement

State Water Supply Conditions

The state of California received enough precipitation in December to revise the drought outlook but State Water Project reservoir levels are still at 40% of capacity and 68% of historic averages. The SWP contractors’ allocation for 2022 remains at 0%.

Hydrologic Analysis

The Lake Arrowhead area received an astonishing 12” to 24” of precipitation in December, 2021 depending on the rain gage. The historic average for December is typically 5.7”. Lake level is currently at 5,103.16’ which is 3.6’ higher than the level on December 1, 2021. The odds of receiving a normal amount of precipitation have improved from 30% to 40%.

Water Supply and Demand Summary 2021

	2019	2020	2021
Surface Water	1,106	1,277	1,120
Groundwater	198	180	187
Imported	47	46	169
Total Supply	1,351	1,503	1,477
Demand	1,277	1,507	1,482
Demand Mgmt			(71)
Total	1,277	1,507	1,411

Hydrologic Assessment	Average	2017	2018	2019	2020	2021	<u>Projected</u>
		PY-3	PY-2				2022
Precipitation Gage (in)	Annual	Annual	Annual	Total	Total	Total	Total
Cedar Glen (SE)	33.06		27.76	66.26	24.52	35.55	12.2
BJ Admin (SW)	34.26	27.00	28.84	57.74	23.85	30.39	12.37
Bernina (W)	30.67	25.55	24.67	51.60	20.86	24.03	13.37
LACC (GV W)	19.72	15.76	12.37	38.61	14.69	25.87	12.85
Fire Sta #1, 5140 (S)	36.70	31.5	33.68	60.46	28.66	40.13	29.41
Fire Sta #4, 5280 (W)	28.46	24.13	31.35	59.59	26.57	30.96	19.58
Precipitation (in)	33.32	25.93	26.84	57.57	23.75	31.16	14.37
SWP Table A	64%	20-85%	15-35%	10-75%	10-20%	5%	0%
<u>Lake Level Analysis</u>							
Lake Level (last day of mont	5101.96	5099.15	5097.47	5103.98	5103.14	5102.38	5097.98
Lake Level vs. full	-4.74	-7.55	-9.23	-2.72	-3.56	-4.32	-8.72
Evaporation losses	-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	-1.60
Precipitation (feet)	2.78	2.16	2.24	4.65	1.92	2.55	1.20

D. FISCAL IMPACT

This is an information item only.

E. ENVIRONMENTAL IMPACT

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F. ATTACHMENTS

None