

LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

MEMORANDUM

DATE: JULY 28, 2020

TO: BOARD OF DIRECTORS
Lake Arrowhead Community Services District

FROM: MATT BROOKS, Operations Manager

SUBJECT: OPERATIONS MANAGER'S REPORT

A. RECOMMENDATION

This is an information item.

B. REASON FOR RECOMMENDATION

This is an information item.

C. BACKGROUND INFORMATION

This report is to give an update on water delivered in 2020.

D. FISCAL IMPACT

This is an information item.

E. ENVIRONMENTAL IMPACT

This is an information item.

F. ATTACHMENTS

- 2020 Monthly Report
- 2019 Monthly Report
- June 2020 Water Delivered Semi-Annual Analysis
- WCWWTP NanO2 pilot project photos

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

2020 MONTH	(1) TRANSFER TO GV LAKE (b)	(2) WELLS TO SYSTEM (c)	(3) BERNINA PLANT	(4) CEDAR GLEN PLANT	(5) COMBINED PLANT (b) (c)	(6) COMBINED PLANT BACKWASH (c)	(7) BERNINA RECYCLE (c)	(8) ROTW CLAWA PURCHASE (a)	(9) BRENTWOOD CLAWA PURCHASE (a)	(10) COMBINED PURCHASE (a) (c)	(11) LAKE DRAW (b)	(12) DELIVERED TO DISTRIBUTION (c) (d)	(13) METERED WATER (d)	(14) EMERGENCY TRANSFER TO DLP (d)	(15) STORAGE VOLUME (e)	(16) STORAGE VOLUME CHANGE +/- (d)	(17) UN-METERED WATER (d)
JANUARY	0.00	15.43	24.03	31.20	55.23	4.72	1.50	0.00	0.00	0.00	55.23	67.44	55.99	0.00	26.57	0.23	11.22
FEBRUARY	0.00	14.64	46.73	0.00	46.73	4.48	2.79	0.00	0.00	0.00	46.73	59.68	48.78	0.00	26.80	0.00	10.90
MARCH	0.00	15.07	44.08	0.00	44.08	3.51	2.59	0.00	0.00	0.00	44.08	58.23	47.30	0.00	26.80	0.34	10.59
1ST QUARTER	0.00	45.14	114.84	31.20	146.04	12.71	6.88	0.00	0.00	0.00	146.04	185.35	152.07	0.00	80.17	0.57	32.71
APRIL	0.00	15.53	56.02	0.00	56.02	4.64	2.80	0.00	0.00	0.00	56.02	69.71	55.00	0.01	27.14	0.22	14.48
MAY	0.00	16.25	132.44	0.00	132.44	9.59	7.93	0.00	0.00	0.00	132.44	147.03	128.20	0.00	27.36	0.00	18.83
JUNE	0.00	15.24	112.47	37.22	149.69	11.71	6.70	0.00	8.99	8.99	149.69	168.91	149.47	0.00	24.29	0.99	18.45
2ND QUARTER	0.00	47.02	300.93	37.22	338.15	25.94	17.43	0.00	8.99	8.99	338.15	385.65	332.67	0.01	78.79	1.21	51.76
SEMI-ANNUAL	0.00	92.16	415.77	68.42	484.19	38.65	24.31	0.00	8.99	8.99	484.19	571.00	484.74	0.01	158.96	1.78	84.47
JULY	0.00				0.00					0.00	0.00	0.00			25.28	0.00	0.00
AUGUST	0.00				0.00					0.00	0.00	0.00				0.00	0.00
SEPTEMBER	0.00				0.00					0.00	0.00	0.00				0.00	0.00
3RD QUARTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.28	0.00	0.00
OCTOBER	0.00				0.00					0.00	0.00	0.00				0.00	0.00
NOVEMBER	0.00				0.00					0.00	0.00	0.00				0.00	0.00
DECEMBER	0.00				0.00					0.00	0.00	0.00				0.00	0.00
4TH QUARTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANNUAL TOTAL	0.00	92.16	415.77	68.42	484.19	38.65	24.31	0.00	8.99	8.99	484.19	571.00	484.74	0.01	184.24	1.78	84.47

(a) CLAWA consumption numbers are based upon monthly billing statements provided by CLAWA. CLAWA reads these meters *on or near the 24th of each month*, so the numbers may not be an actual representation of water consumed for said calendar month.

(b) Lake Draw = (1) + (5)

(c) Delivered to Distribution = (2) + (5) - (6) + (7) + (10)

(d) Un-Metered Water = ((12) - (13+14)) - (16)

(e) Storage Volume calculated 8:00 am the 1st of every month.

* 0.01 AF transferred from LACSD to DLP for testing purposes while putting interconnection online in April 2020.

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
2019 MONTH	TRANSFER TO GV LAKE	WELLS TO SYSTEM	BERNINA PLANT	CEDAR GLEN PLANT	COMBINED PLANT	COMBINED PLANT BACKWASH	BERNINA RECYCLE	CLAWA PURCHASE (a)	CLAWA PURCHASE (a)	BRENTWOOD PURCHASE (a)	COMBINED PURCHASE (a)	LAKE DRAW (b)	DELIVERED TO DISTRIBUTION (c)	METERED WATER	STORAGE VOLUME CHANGE +/- (e)	STORAGE VOLUME CHANGE +/- (d)	UN-METERED WATER (d)
JANUARY	0.00	13.17	0.00	60.63	60.63	4.33	0.00	0.00	0.00	0.00	0.00	60.63	69.47	56.45	23.82	0.80	12.22
FEBRUARY	0.00	15.90	1.38	55.11	56.49	4.54	0.00	0.00	0.00	0.00	0.00	56.49	67.85	53.02	24.62	2.09	12.74
MARCH	0.00	18.62	11.93	34.18	46.11	3.84	0.29	0.00	0.00	0.00	0.00	46.11	61.18	50.91	26.71	-0.28	10.55
1ST QUARTER	0.00	47.69	13.31	149.92	163.23	12.71	0.29	0.00	0.00	0.00	0.00	163.23	198.50	160.38	75.15	2.61	35.51
APRIL	0.00	19.37	51.07	0.00	51.07	4.56	2.37	0.00	0.00	0.00	0.00	51.07	68.25	57.30	26.43	0.00	10.95
MAY	0.00	17.66	83.86	0.00	83.86	6.93	4.26	0.00	0.00	0.00	0.00	83.86	98.85	84.74	26.37	1.78	12.33
JUNE	0.00	16.72	120.37	0.00	120.37	9.54	6.42	0.00	2.34	2.34	2.34	120.37	136.31	121.85	28.15	-3.44	17.90
2ND QUARTER	0.00	53.75	255.30	0.00	255.30	21.03	13.05	0.00	2.34	2.34	2.34	255.30	303.41	263.89	80.95	-1.66	41.18
SEMI-ANNUAL	0.00	101.44	268.61	149.92	418.53	33.74	13.34	0.00	2.34	2.34	2.34	418.53	501.91	424.27	156.10	0.95	76.69
JULY	0.00	17.38	114.45	53.40	167.85	14.46	5.79	0.00	7.63	7.63	7.63	167.85	184.19	169.40	24.71	3.29	11.50
AUGUST	0.00	16.93	78.28	59.14	137.42	11.49	5.69	0.00	31.19	31.19	31.19	137.42	179.74	165.47	28.00	-1.97	16.24
SEPTEMBER	0.00	15.91	65.75	78.89	144.64	9.98	3.96	0.00	5.49	5.49	5.49	144.64	160.02	144.37	26.03	0.90	14.75
3RD QUARTER	0.00	50.22	258.48	191.43	449.91	35.93	15.44	0.00	44.31	44.31	44.31	449.91	523.95	479.24	78.74	2.22	42.49
OCTOBER	0.00	16.17	72.36	41.78	114.14	12.70	1.71	0.00	0.00	0.00	0.00	114.14	119.32	105.48	26.93	-0.85	14.69
NOVEMBER	0.00	15.01	38.71	23.65	62.36	5.03	2.46	0.00	0.00	0.00	0.00	62.36	74.80	64.13	26.08	0.34	10.33
DECEMBER	0.00	15.22	39.49	21.45	60.94	6.11	1.65	0.00	0.00	0.00	0.00	60.94	71.70	59.54	26.42	0.15	12.01
4TH QUARTER	0.00	46.40	150.56	86.88	237.44	23.84	5.82	0.00	0.00	0.00	0.00	237.44	265.82	229.15	79.43	-0.36	37.03
ANNUAL TOTAL	0.00	198.06	677.65	428.23	1105.88	93.51	34.60	0.00	46.65	46.65	46.65	1105.88	1291.68	1132.66	314.27	2.81	156.21

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(b) Lake Draw = (1) + (5)

(c) Delivered to Distribution = (2) + (5) - (6) + (7) +(10)

(d) Un-Metered Water = ((12) - (13)) - (15)

(e) Storage Volume calculated 8:00 am the 1st of every month.

July 28, 2020

June 2020 Water Delivered Semi-Annual Analysis

- In June 2020 (168.91 AF) consumption is up 23.9% when compared to June 2019 (136.31 AF). Through the 1st 6 months of 2020 (571.00 AF) consumption is up 13.7% when compared to the 1st 6 months of 2019 (501.91 AF). These numbers are based off of column (12) on the Report, and only counts water delivered to the Distribution System.
- June 2020 Lake Draw = 149.69 AF vs June 2019 = 120.37 AF. Through the 1st 6 months of 2020 Lake Draw = 484.19 AF vs through the 1st 6 months of 2019 = 418.53 AF.
- June 2020 Wells to System = 15.24 AF vs June 2019 = 16.72 AF. Through the 1st 6 months of 2020 Wells to System = 92.16 AF vs through the 1st 6 months of 2019 = 101.44 AF.
- Through the 1st 6 months of 2020 total CLAWA purchase = 8.99 AF vs through the 1st 6 months of 2019 = 2.34 AF.
- Recycled water deliveries to the LACC commenced on May 13, 2020. Through the 1st 6 months of 2020 total Recycled Water Delivered to the LACC = 82.79 AF vs through the 1st 6 months of 2019 = 51.91 AF.

Willow Creek WWTP NanO2 Pilot Project

