

LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

MEMORANDUM

DATE: MAY 26, 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
- April 2020 Water Delivered Annual Analysis

**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				0.00					0.00	0.00	0.00			27.36	0.00	0.00
JUNE	0.00				0.00					0.00	0.00	0.00				0.00	0.00
2ND QUARTER	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	54.50	0.22	14.48
SEMI-ANNUAL	0.00	60.67	170.86	31.20	202.06	17.35	9.68	0.00	0.00	0.00	202.06	255.06	207.07	0.01	134.67	0.79	47.19
JULY	0.00				0.00					0.00	0.00	0.00				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	0.00	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	60.67	170.86	31.20	202.06	17.35	9.68	0.00	0.00	0.00	202.06	255.06	207.07	0.01	134.67	0.79	47.19

(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.

May 26, 2020

April 2020 Water Delivered Annual Analysis

- In April 2020 (69.71 AF), consumption was very similar when compared to April 2019 (68.25 AF) Through the 1st 4 months of 2020 (255.06 AF), consumption was 4.4% lower when compared to the 1st 4 months of 2019 (266.75 AF). These numbers are based off column (12) on the Report, and only counts water delivered to the Distribution System.
- April 2020 Lake Draw = 56.02 AF vs April 2019 = 51.07 AF. Through the 1st 4 months of 2020 Lake Draw = 202.06 AF vs through the 1st 4 months of 2019 = 214.30 AF.
- April 2020 Wells to System = 15.53 AF vs April 2019 = 19.37 AF. Through the 1st 4 months of 2020 Wells to System = 60.67 AF vs through the 1st 4 months of 2019 = 67.06 AF.
- Through the 1st 4 months of 2020 total CLAWA purchase = 0 AF vs through the 1st 4 months of 2019 = 0 AF.
- Through the 1st Quarter of 2020 total CLAWA purchase = 0 AF vs through the 1st Quarter of 2019 = 0 AF.
- New columns were added to the reports: “Emergency Transfer To DLP” and “Emergency Transfer from Woods” to account for any water that goes through the new LACSD-DLP Emergency Interconnection. The intent of this interconnection is for emergency use only, and under normal conditions water should not flow from LACSD-DLP. The CLA-VAL is set to monitor downstream pressure (DLP side), and in the event that the downstream pressure drops to a pre-set level, then the CLA-VAL will open to supply pressure and volume to the DLP system. You will notice that 0.01 AF was transferred in April 2020 for testing purposes while putting the interconnection online. The new interconnection has been officially added to the Deer Lodge Water System Water Supply Permit and was officially put on-line on April 30, 2020.

