

**LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT**

**MEMORANDUM**

**DATE:** MAY 23, 2017

**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 2017.

**D. FISCAL INFORMATION**

This is an information item.

**E. ATTACHMENTS**

- 2017 Monthly Report
- 2016 Monthly Report
- April 2017 Water Delivered Annual Analysis

**ARROWHEAD WOODS MONTHLY DATA  
ACRE FEET**

2017 MONTH	(1) TRANSFER TO GV LAKE	(2) WELLS TO SYSTEM	(3) BERNINA PLANT	(4) CEDAR GLEN PLANT	(5) COMBINED PLANT	(6) COMBINED PLANT BACKWASH	(7) BERNINA RECYCLE	(8) KOTW CLAWA PURCHASE (a)	(9) BRENTWOOD CLAWA PURCHASE (a)	(10) COMBINED PURCHASE (a)	(11) LAKE DRAW (b)	(12) DELIVERED TO DISTRIBUTION (c)	(13) METERED WATER	(14) STORAGE VOLUME (e)	(15) STORAGE VOLUME CHANGE +/-	(16) UN-METERED WATER (d)
JANUARY	0.00	8.58	0.00	8.76	8.76	0.48	0.00	60.76	0.00	60.76	8.76	77.62	52.64	20.36	2.84	22.14
FEBRUARY	0.00	11.07	21.85	13.02	34.87	3.81	0.73	27.64	0.00	27.64	34.87	70.50	48.04	23.20	4.24	18.22
MARCH	0.00	12.96	63.44	0.00	63.44	5.07	2.90	0.00	0.00	0.00	63.44	74.23	51.23	27.44	0.46	22.54
1ST QUARTER	0.00	32.61	85.29	21.78	107.07	9.36	3.63	88.40	0.00	88.40	107.07	222.35	151.91	71.00	7.54	62.90
APRIL	0.00	12.78	67.70	0.00	67.70	5.00	4.02	0.00	0.00	0.00	67.70	79.50	56.31	27.90	-1.07	24.26
MAY	0.00				0.00					0.00	0.00	0.00		26.83	-26.83	26.83
JUNE	0.00				0.00					0.00	0.00	0.00			0.00	0.00
2ND QUARTER	0.00	12.78	67.70	0.00	67.70	5.00	4.02	0.00	0.00	0.00	67.70	79.50	56.31	54.73	-27.90	51.09
SEMI-ANNUAL	0.00	45.39	152.99	21.78	174.77	14.36	7.65	88.40	0.00	88.40	174.77	301.85	208.22	125.73	-20.36	113.99
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
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
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
ANNUAL TOTAL	0.00	45.39	152.99	21.78	174.77	14.36	7.65	88.40	0.00	88.40	174.77	301.85	208.22	125.73	-20.36	113.99

(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)) - (15)

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

**ARROWHEAD WOODS MONTHLY DATA  
ACRE FEET**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
2016 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)	LAKE DRAW (b)	DELIVERED TO DISTRIBUTION (c)	METERED WATER	STORAGE VOLUME (e)	STORAGE VOLUME CHANGE +/-	UN-METERED WATER (d)
JANUARY	0.00	3.85	73.88	0.00	73.88	5.02	4.47	0.00	0.00	0.00	73.88	77.18	53.48	26.67	1.05	22.65
FEBRUARY	0.00	0.00	67.81	0.00	67.81	4.34	3.98	0.00	0.00	0.00	67.81	67.45	47.24	27.72	-0.17	20.38
MARCH	0.00	0.00	71.09	0.00	71.09	5.06	3.83	0.00	0.00	0.00	71.09	69.86	50.95	27.55	0.76	18.15
1ST QUARTER	0.00	3.85	212.78	0.00	212.78	14.42	12.28	0.00	0.00	0.00	212.78	214.49	151.67	81.94	1.64	61.18
APRIL	0.00	4.87	49.51	0.00	49.51	3.73	2.65	0.00	11.93	11.93	49.51	65.23	48.22	28.31	-0.19	17.20
MAY	0.00	12.08	91.35	0.00	91.35	5.69	5.20	0.00	12.33	12.33	91.35	115.27	86.00	28.12	-0.62	29.89
JUNE	0.00	15.84	138.66	11.58	150.24	11.00	5.95	0.00	10.44	10.44	150.24	171.47	140.31	27.50	-1.98	33.14
2ND QUARTER	0.00	32.79	279.52	11.58	291.10	20.42	13.80	0.00	34.70	34.70	291.10	351.97	274.53	83.93	-2.79	80.23
SEMI-ANNUAL	0.00	36.64	492.30	11.58	503.88	34.84	26.08	0.00	34.70	34.70	503.88	566.46	426.20	165.87	-1.15	141.41
JULY	0.00	15.23	178.66	17.29	195.95	12.79	7.71	0.00	0.00	0.00	195.95	206.10	160.96	25.52	-0.41	45.55
AUGUST	0.00	14.98	200.86	0.00	200.86	12.92	9.21	0.00	0.00	0.00	200.86	212.13	169.71	25.11	2.89	39.53
SEPTEMBER	0.00	13.50	174.24	0.00	174.24	11.33	8.55	0.00	0.00	0.00	174.24	184.96	150.07	28.00	0.04	34.85
3RD QUARTER	0.00	43.71	553.76	17.29	571.05	37.04	25.47	0.00	0.00	0.00	571.05	603.19	480.74	78.63	2.52	119.93
OCTOBER	0.00	6.78	71.13	9.85	80.98	8.12	3.94	36.30	0.00	36.30	80.98	119.88	100.38	28.04	-5.13	24.63
NOVEMBER	0.00	15.06	0.00	0.00	0.00	0.00	0.00	52.69	0.00	52.69	0.00	67.75	59.95	22.91	-1.10	8.90
DECEMBER	0.00	14.10	0.00	0.00	0.00	0.00	0.00	58.49	0.00	58.49	0.00	72.59	63.57	21.81	-1.45	10.47
4TH QUARTER	0.00	35.94	71.13	9.85	80.98	8.12	3.94	147.48	0.00	147.48	80.98	260.22	223.90	72.76	-7.68	44.00
ANNUAL TOTAL	0.00	116.29	1117.19	38.72	1155.91	80.00	55.49	147.48	34.70	182.18	1155.91	1429.87	1130.84	317.26	-6.31	305.34

(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)) - (15)

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

May 23, 2017

### April 2017 Water Delivered Annual Analysis

- In April 2017 (79.50 AF), consumption was up 21.9% compared to April 2016 (65.23 AF). Through the 1<sup>st</sup> 4 months of 2017 consumption is up 7.9% (301.85 AF) compared to the 1<sup>st</sup> 4 months of 2016 (279.72 AF). These numbers are based off of column (12) on the Report, and only counts water delivered to the Distribution System.
- April 2017 Lake Draw = 67.70 AF vs April 2016 = 49.51 AF. Through the 1<sup>st</sup> 4 months of 2017 lake withdrawals are down significantly (174.77 AF) compared to the 1<sup>st</sup> 4 months of 2016 (262.29 AF).
- April 2017 Wells to System = 12.78 AF vs April 2016 = 4.87 AF. Through the 1<sup>st</sup> 4 months of 2017 “Wells To System” = 45.39 AF compared to the 1<sup>st</sup> 4 months of 2016 (8.72 AF)
- April 2017 total CLAWA purchase = 0 AF vs April 2016 = 11.93 AF. Through the 1<sup>st</sup> 4 months of 2017 CLAWA purchase = 88.40 AF compared to the 1<sup>st</sup> 4 months of 2016 (11.93 AF).