

LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

MEMORANDUM

DATE: FEBRUARY 27, 2018

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 2018.

D. FISCAL INFORMATION

This is an information item.

E. ATTACHMENTS

- 2018 Monthly Report
- 2017 Monthly Report
- January 2018 Water Delivered Annual Analysis

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
2018 MONTH	TRANSFER TO GV LAKE	WELLS TO SYSTEM	BERNINA PLANT	CEDAR GLEN PLANT	COMBINED PLANT	COMBINED PLANT BACKWASH	BERNINA RECYCLE	CLAWA PURCHASE (a)	ROTW CLAWA PURCHASE (a)	BRENTWOOD CLAWA PURCHASE (a)	COMBINED PURCHASE (a)	LAKE DRAW (b)	DELIVERED TO DISTRIBUTION (c)	METERED WATER	STORAGE VOLUME (e)	STORAGE VOLUME CHANGE +/-	UN-METERED WATER (d)
JANUARY	0.00	11.57	0.00	32.93	32.93	1.57	0.00	19.68	0.00	19.68	32.93	62.61	51.30	27.73	-1.69	13.00	
FEBRUARY	0.00				0.00					0.00	0.00	0.00		26.04	-26.04	26.04	
MARCH	0.00				0.00					0.00	0.00	0.00			0.00	0.00	
1ST QUARTER	0.00	11.57	0.00	32.93	32.93	1.57	0.00	19.68	0.00	19.68	32.93	62.61	51.30	53.77	-27.73	39.04	
APRIL	0.00				0.00					0.00	0.00	0.00			0.00	0.00	
MAY	0.00				0.00					0.00	0.00	0.00			0.00	0.00	
JUNE	0.00				0.00					0.00	0.00	0.00			0.00	0.00	
2ND 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	
SEMI-ANNUAL	0.00	11.57	0.00	32.93	32.93	1.57	0.00	19.68	0.00	19.68	32.93	62.61	51.30	53.77	-27.73	39.04	
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	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	11.57	0.00	32.93	32.93	1.57	0.00	19.68	0.00	19.68	32.93	62.61	51.30	53.77	-27.73	39.04	

(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)
2017 MONTH	TRANSFER TO GV LAKE	WELLS TO SYSTEM	BERNINA PLANT	CEDAR GLEN PLANT	COMBINED PLANT	COMBINED PLANT BACKWASH	BERNINA RECYCLE	CLAWA PURCHASE (a)	ROTHW CLAWA PURCHASE (a)	BRENTWOOD CLAWA PURCHASE (a)	LAKE DRAW (b)	DELIVERED TO DISTRIBUTION (c)	METERED WATER	STORAGE VOLUME (e)	STORAGE VOLUME CHANGE +/-	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	18.55	115.13	0.00	115.13	7.71	5.59	0.00	1.06	1.06	115.13	132.62	103.13	26.83	1.04	28.45
JUNE	0.00	16.04	163.95	0.00	163.95	9.89	7.20	0.00	2.46	2.46	163.95	179.76	143.71	27.87	0.51	35.54
2ND QUARTER	0.00	47.37	346.78	0.00	346.78	22.60	16.81	0.00	3.52	3.52	346.78	391.88	303.15	82.60	0.48	88.25
SEMI-ANNUAL	0.00	79.98	432.07	21.78	453.85	31.96	20.44	88.40	3.52	91.92	453.85	614.23	455.06	153.60	8.02	151.15
JULY	0.00	15.74	162.62	36.11	198.73	13.31	5.63	0.00	0.00	0.00	198.73	206.79	174.02	28.38	-0.05	32.82
AUGUST	0.00	13.67	119.47	66.13	185.60	11.63	6.05	0.00	0.00	0.00	185.60	193.69	166.28	28.33	0.48	26.93
SEPTEMBER	0.00	13.57	20.99	61.37	82.36	7.22	1.32	13.14	41.56	54.70	82.36	144.73	123.03	28.81	-3.00	24.70
3RD QUARTER	0.00	42.98	303.08	163.61	466.69	32.16	13.00	13.14	41.56	54.70	466.69	545.21	463.33	85.52	-2.57	84.45
OCTOBER	0.00	14.87	0.00	45.53	45.53	2.06	0.00	58.42	0.00	58.42	45.53	116.76	101.27	25.81	-1.34	16.83
NOVEMBER	0.00	12.71	0.00	33.11	33.11	1.73	0.00	30.82	0.00	30.82	33.11	74.91	66.17	24.47	0.06	8.68
DECEMBER	0.00	13.38	0.00	72.89	72.89	3.54	0.00	0.00	0.00	0.00	72.89	82.73	66.31	24.53	3.20	13.22
4TH QUARTER	0.00	40.96	0.00	151.53	151.53	7.33	0.00	89.24	0.00	89.24	151.53	274.40	233.75	74.81	1.92	38.73
ANNUAL TOTAL	0.00	163.92	735.15	336.92	1072.07	71.45	33.44	190.78	45.08	235.86	1072.07	1433.84	1152.14	313.93	7.37	274.33

27.73

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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.

February 27, 2018

January 2018 Water Delivered Annual Analysis

- In January 2018 (62.61 AF), consumption was 19.3% lower when compared to January 2017 (77.62 AF). These numbers are based off of column (12) on the Report, and only counts water delivered to the Distribution System.
- January 2018 Lake Draw = 32.93 AF vs January 2017 = 8.76 AF
- January 2018 Wells to System = 11.57 AF vs January 2017 = 8.58 AF
- January 2018 total CLAWA purchase = 19.68 AF vs January 2017 = 60.76 AF. CLAWA was turned off on January 31, 2018, but CLAWA will continue to be purchased throughout the duration of the North Bay Pump Station Replacement Project as necessary.