


LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

M E M O R A N D U M

DATE: DECEMBER 8, 2015

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 2015.

D. FISCAL INFORMATION

This is an information item.

E. ATTACHMENTS

- 2015 Monthly Report
- 2014 Monthly Report
- Water Delivered YTD Analysis

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

2015 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) ROTW 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	3.01	82.26	0.00	82.26	6.99	2.56	0.00	0.00	0.00	82.26	80.84	57.79	26.73	0.69	22.36
FEBRUARY	0.00	16.57	51.62	0.00	51.62	4.47	1.47	0.00	0.00	0.00	51.62	65.19	46.38	27.42	0.54	18.27
MARCH	0.00	16.21	57.62	0.00	57.62	4.89	1.73	0.00	0.00	0.00	57.62	70.67	52.49	27.96	-0.85	19.03
1ST QUARTER	0.00	35.79	191.50	0.00	191.50	16.35	5.76	0.00	0.00	0.00	191.50	216.70	156.66	82.11	0.38	59.66
APRIL	0.00	15.04	52.46	2.76	55.22	4.97	2.81	0.00	5.05	5.05	55.22	73.15	57.08	27.11	-0.83	16.90
MAY	0.00	14.76	48.88	6.03	54.91	5.46	2.64	0.00	32.24	32.24	54.91	99.09	76.41	26.28	-0.70	23.38
JUNE	0.00	12.87	129.58	0.17	129.75	9.94	5.77	0.00	0.00	0.00	129.75	138.45	113.87	25.58	1.56	23.02
2ND QUARTER	0.00	42.67	230.92	8.96	239.88	20.37	11.22	0.00	37.29	37.29	239.88	310.69	247.36	78.97	0.03	63.30
SEMI-ANNUAL	0.00	78.46	422.42	8.96	431.38	36.72	16.98	0.00	37.29	37.29	431.38	527.39	404.02	161.08	0.41	122.96
JULY	0.00	13.48	150.29	0.00	150.29	10.44	6.55	0.00	0.00	0.00	150.29	159.88	137.12	27.14	0.16	22.60
AUGUST	0.00	15.53	151.73	0.00	151.73	9.91	6.24	0.00	0.00	0.00	151.73	163.59	130.14	27.30	0.46	32.99
SEPTEMBER	0.00	14.53	124.95	0.00	124.95	8.24	5.70	0.00	0.00	0.00	124.95	136.94	113.67	27.76	0.55	22.72
3RD QUARTER	0.00	43.54	426.97	0.00	426.97	28.59	18.49	0.00	0.00	0.00	426.97	460.41	380.93	82.20	1.17	78.31
OCTOBER	0.00	14.64	87.28	0.00	87.28	6.48	5.39	0.00	0.00	0.00	87.28	100.83	84.17	28.31	-0.96	17.62
NOVEMBER	0.00	10.77	63.37	0.00	63.37	4.51	2.78	0.00	0.00	0.00	63.37	72.41	55.20	27.35	-0.68	17.89
DECEMBER										0.00	0.00	0.00	26.67		0.00	0.00
4TH QUARTER	0.00	25.41	150.65	0.00	150.65	10.99	8.17	0.00	0.00	0.00	150.65	173.24	139.37	82.33	-1.64	35.51
ANNUAL TOTAL	0.00	147.41	1000.04	8.96	1009.00	76.30	43.64	0.00	37.29	37.29	1009.00	1161.04	924.32	325.61	-0.06	236.78

(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)	
2014	TRANSFER TO GV LAKE	WELLS TO SYSTEM	BERNINA PLANT	CEDAR GLEN PLANT	COMBINED PLANT	COMBINED PLANT BACKWASH	BERNINA RECYCLE	ROTW CLAWA PURCHASE (a)	BRENTWOOD CLAWA PURCHASE (a)	COMBINED PURCHASE (a)	LAKE DRAW (b)	DELIVERED TO DISTRIBUTION (c)	METERED WATER	UN-METERED WATER (d)	UN-METERED % (e)
JANUARY	0.00	13.06	50.45	0.00	50.45	3.74	2.85	0.00	8.71	8.71	50.45	71.33	56.84	14.49	20.31
FEBRUARY	0.00	15.42	17.42	0.00	17.42	1.56	0.80	0.00	25.52	25.52	17.42	57.60	48.46	9.14	15.87
MARCH	0.00	13.35	53.92	0.00	53.92	3.66	2.52	0.00	7.06	7.06	53.92	73.19	51.66	21.53	29.42
1ST QUARTER	0.00	41.83	121.79	0.00	121.79	8.96	6.17	0.00	41.29	41.29	121.79	202.12	156.96	45.16	22.34
APRIL	0.00	15.36	58.74	0.00	58.74	4.84	3.94	0.00	0.00	0.00	58.74	73.20	57.86	15.34	20.96
MAY	0.00	13.93	120.22	0.00	120.22	8.71	5.31	18.94	0.00	18.94	120.22	149.69	120.88	28.81	19.25
JUNE	0.00	13.95	124.62	2.69	127.31	9.31	5.44	43.55	0.00	43.55	127.31	180.94	157.56	23.38	12.92
2ND QUARTER	0.00	43.24	303.58	2.69	306.27	22.86	14.69	62.49	0.00	62.49	306.27	403.83	336.30	67.53	16.72
SEMI-ANNUAL	0.00	85.07	425.37	2.69	428.06	31.82	20.86	62.49	41.29	103.78	428.06	605.95	493.26	112.69	18.60
JULY	0.00	15.66	127.15	0.00	127.15	8.33	5.68	66.53	0.00	66.53	127.15	206.69	174.57	32.12	15.54
AUGUST	0.00	12.83	104.04	0.00	104.04	7.45	4.12	68.56	0.00	68.56	104.04	182.10	167.20	14.90	8.18
SEPTEMBER	0.00	13.76	156.22	0.00	156.22	10.51	5.97	4.45	0.00	4.45	156.22	169.89	130.54	39.35	23.16
3RD QUARTER	0.00	42.25	387.41	0.00	387.41	26.29	15.77	139.54	0.00	139.54	387.41	558.68	472.31	86.37	15.46
OCTOBER	0.00	13.19	105.49	20.37	125.86	7.59	3.20	0.00	0.00	0.00	125.86	134.66	110.30	24.36	18.09
NOVEMBER	0.00	12.02	78.92	0.00	78.92	7.70	2.83	0.00	0.00	0.00	78.92	86.07	59.44	26.63	30.94
DECEMBER	0.00	0.37	83.25	0.00	83.25	7.44	2.76	0.00	0.00	0.00	83.25	78.94	62.33	16.61	21.04
4TH QUARTER	0.00	25.58	267.66	20.37	288.03	22.73	8.79	0.00	0.00	0.00	288.03	299.67	232.07	67.60	22.56
ANNUAL TOTAL	0.00	152.90	1080.44	23.06	1103.50	80.84	45.42	202.03	41.29	243.32	1103.50	1464.30	1197.64	266.66	18.21

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

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

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

(e) Un-Metered % = (14)/(12) X 100

December 8, 2015

Water Delivered YTD Analysis

- In November 2015 (72.41 AF), consumption was down 16% when compared to November 2014 (86.07 AF). Through 11 months of 2015 (1161.04 AF), consumption is down 16.2% compared to the first 11 months of 2014 (1385.36 AF). These numbers are based off of column (12) on the Report, and only counts water delivered to the Distribution System.
 - November 2015 Lake Draw = 63.37 AF vs November 2014 = 78.92 AF. Lake Draw 1st 11 months of 2015 = 1009.00 vs 1st 11 months of 2014 = 1020.25 .
 - November 2015 Wells to System = 10.77 AF vs November 2014 = 12.02 AF. Wells to System 1st 11 months of 2015 = 147.41 AF vs 1st 11 months of 2014 = 152.53 AF. Well #5 was taken out of service on 11/16/2015 for preventative maintenance consisting of mechanical cleaning and video inspection, and was put back on-line on 12/1/2015. Well #1 was taken out of service on 12/1/2015 for the same preventative maintenance, so we will see a slight decrease in production for the month of December as well.
 - November 2015 total CLAWA purchase = 0 AF. CLAWA purchase 1st 11 months of 2015 = 37.29 AF vs 1st 11 months of 2014 = 243.32 AF.
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