

LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

MEMORANDUM

DATE: MAY 23, 2023

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 2023.

D. FISCAL IMPACT

This is an information item.

E. ENVIRONMENTAL IMPACT

This is an information item.

F. ATTACHMENTS

- 2023 Monthly Report
- 2022 Monthly Report
- 2021 Monthly Report
- April 2023 Water Delivered Annual Analysis

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

2023 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	7.86	64.29	0.00	64.29	5.54	3.50	0.00	0.00	0.00	64.29	70.11	55.40	0.00	28.50	-1.14	15.85
FEBRUARY	0.00	17.71	47.79	0.00	47.79	3.69	2.55	0.00	0.00	0.00	47.79	64.36	45.42	0.00	27.36	-1.00	19.94
MARCH	0.00	16.67	59.44	0.00	59.44	3.60	2.82	0.00	0.00	0.00	59.44	75.33	43.62	0.04	26.36	0.69	30.98
1ST QUARTER	0.00	42.24	171.52	0.00	171.52	12.83	8.87	0.00	0.00	0.00	171.52	209.80	144.44	0.04	82.22	-1.45	66.77
APRIL	0.00	17.50	43.75	0.00	43.75	3.13	2.57	0.00	0.00	0.00	43.75	60.69	46.42	0.00	27.05	-0.73	15.00
MAY					0.00					0.00	0.00	0.00			26.32	0.00	0.00
JUNE					0.00					0.00	0.00	0.00				0.00	0.00
2ND QUARTER	0.00	17.50	43.75	0.00	43.75	3.13	2.57	0.00	0.00	0.00	43.75	60.69	46.42	0.00	53.37	-0.73	15.00
SEMI-ANNUAL	0.00	59.74	215.27	0.00	215.27	15.96	11.44	0.00	0.00	0.00	215.27	270.49	190.86	0.04	135.59	-2.18	81.77
JULY					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
SEPTEMBER					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
NOVEMBER					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	0.00
ANNUAL TOTAL	0.00	59.74	215.27	0.00	215.27	15.96	11.44	0.00	0.00	0.00	215.27	270.49	190.86	0.04	135.59	-2.18	81.77

(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.

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

2022 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	16.52	55.25	0.00	55.25	4.26	2.94	0.00	0.00	0.00	55.25	70.45	55.62	0.00	26.62	-0.12	14.95
FEBRUARY	0.00	15.73	44.80	0.00	44.80	3.41	2.45	0.00	0.00	0.00	44.80	59.57	47.70	0.00	26.50	0.20	11.67
MARCH	0.00	15.16	47.07	0.00	47.07	3.51	2.29	0.00	0.00	0.00	47.07	61.01	47.10	0.00	26.70	0.28	13.63
1ST QUARTER	0.00	47.41	147.12	0.00	147.12	11.18	7.68	0.00	0.00	0.00	147.12	191.03	150.42	0.00	79.82	0.36	40.25
APRIL	0.00	18.57	48.98	0.00	48.98	3.59	3.02	0.03	0.03	0.06	48.98	67.04	54.25	0.00	26.98	-0.78	13.57
MAY	0.00	21.32	109.47	0.00	109.47	8.20	4.85	0.00	0.05	0.05	109.47	127.49	108.73	0.00	26.20	-0.69	19.45
JUNE	0.00	19.97	98.89	14.72	113.61	8.72	4.97	0.00	20.01	20.01	113.61	149.84	132.46	0.00	25.51	-0.91	18.29
2ND QUARTER	0.00	59.86	257.34	14.72	272.06	20.51	12.84	0.03	20.09	20.12	272.06	344.37	295.44	0.00	78.69	-2.38	51.31
SEMI-ANNUAL	0.00	107.27	404.46	14.72	419.18	31.69	20.52	0.03	20.09	20.12	419.18	535.40	445.86	0.00	158.51	-2.02	91.56
JULY	0.00	17.34	106.06	31.73	137.79	10.38	4.67	0.00	27.34	27.34	137.79	176.76	158.90	0.00	24.60	0.18	17.68
AUGUST	0.00	17.14	93.60	62.76	156.36	11.97	3.70	0.00	5.33	5.33	156.36	170.56	153.37	0.00	24.78	1.10	16.09
SEPTEMBER	0.00	15.71	63.75	67.79	131.54	8.61	4.02	0.00	0.00	0.00	131.54	142.66	125.99	0.00	25.88	1.93	14.74
3RD QUARTER	0.00	50.19	263.41	162.28	425.69	30.96	12.39	0.00	32.67	32.67	425.69	489.98	438.26	0.00	75.26	3.21	48.51
OCTOBER	0.00	16.82	44.37	43.63	88.00	6.20	2.47	0.00	0.00	0.00	88.00	101.09	87.74	0.00	27.81	-0.28	13.63
NOVEMBER	0.00	13.32	50.10	4.68	54.78	5.26	2.85	0.00	0.00	0.00	54.78	65.69	52.19	0.00	27.53	-0.18	13.68
DECEMBER	0.00	13.61	63.97	0.00	63.97	5.77	3.52	0.00	0.00	0.00	63.97	75.33	57.99	0.00	27.35	1.15	16.19
4TH QUARTER	0.00	43.75	158.44	48.31	206.75	17.23	8.84	0.00	0.00	0.00	206.75	242.11	197.92	0.00	82.69	0.69	43.50
ANNUAL TOTAL	0.00	201.21	826.31	225.31	1051.62	79.88	41.75	0.03	52.76	52.79	1051.62	1267.49	1082.04	0.00	316.46	1.88	183.57

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

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

2021 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	14.30	64.52	0.00	64.52	4.64	1.77	0.00	0.00	0.00	64.52	75.95	62.23	0.00	26.75	-1.05	14.77
FEBRUARY	0.00	12.49	37.67	21.25	58.92	5.34	1.37	0.00	0.00	0.00	58.92	67.44	52.34	0.00	25.70	0.41	14.69
MARCH	0.00	14.09	55.59	0.00	55.59	4.39	2.87	0.00	0.00	0.00	55.59	68.16	54.05	0.00	26.11	0.91	13.20
1ST QUARTER	0.00	40.88	157.78	21.25	179.03	14.37	6.01	0.00	0.00	0.00	179.03	211.55	168.62	0.00	78.56	0.27	42.66
APRIL	0.00	16.84	45.63	0.00	45.63	3.66	2.42	0.00	13.13	13.13	45.63	74.36	65.08	0.00	27.02	-0.94	10.22
MAY	0.00	16.99	110.09	0.00	110.09	7.32	6.54	0.00	13.58	13.58	110.09	139.88	125.77	0.00	26.08	0.30	13.81
JUNE	0.00	15.51	134.39	16.25	150.64	11.62	5.81	0.00	13.10	13.10	150.64	173.44	156.67	0.00	26.38	0.30	16.47
2ND QUARTER	0.00	49.34	290.11	16.25	306.36	22.60	14.77	0.00	39.81	39.81	306.36	387.68	347.52	0.00	79.48	-0.34	40.50
SEMI-ANNUAL	0.00	90.22	447.89	37.50	485.39	36.97	20.78	0.00	39.81	39.81	485.39	599.23	516.14	0.00	158.04	-0.07	83.16
JULY	0.00	15.99	147.54	41.07	188.61	14.32	4.44	0.00	5.39	5.39	188.61	200.11	182.05	0.00	26.39	0.81	17.25
AUGUST	0.00	16.43	141.86	37.35	179.21	13.81	7.62	0.00	0.00	0.00	179.21	189.45	171.87	0.00	27.20	-2.67	20.25
SEPTEMBER	0.00	15.84	128.21	37.96	166.17	11.70	7.81	0.00	0.00	0.00	166.17	178.12	159.11	0.00	24.53	-0.10	19.11
3RD QUARTER	0.00	48.26	417.61	116.38	533.99	39.83	19.87	0.00	5.39	5.39	533.99	567.68	513.03	0.00	78.12	-1.96	56.61
OCTOBER	0.00	16.53	38.52	14.98	53.50	4.55	1.62	48.73	0.04	48.77	53.50	115.87	100.68	0.00	24.63	3.62	11.57
NOVEMBER	0.00	16.07	13.19	0.00	13.19	1.86	0.00	47.21	0.00	47.21	13.19	74.61	63.01	0.00	28.25	-0.63	12.23
DECEMBER	0.00	15.65	34.01	0.00	34.01	3.23	1.19	27.87	0.00	27.87	34.01	75.49	62.20	0.00	27.62	-1.00	14.29
4TH QUARTER	0.00	48.25	85.72	14.98	100.70	9.64	2.81	123.81	0.04	123.85	100.70	265.97	225.89	0.00	80.50	1.99	38.09
ANNUAL TOTAL	0.00	186.73	951.22	168.86	1120.08	86.44	43.46	123.81	45.24	169.05	1120.08	1432.88	1255.06	0.00	316.66	-0.04	177.86

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

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

* Due to technical issues with our metering system, the METERED WATER (13) data for January was collected between 02-01-2021 and 02-10-2021.

May 23, 2023

April 2023 Water Delivered Annual Analysis

- In April 2023 (60.69 AF), consumption was down 9.5% when compared to April 2022 (67.04 AF). Through the 1st 4 months of 2023 (270.49 AF), consumption was up 4.8% when compared to the 1st 4 months of 2022 (258.07 AF). These numbers are based off column (12) on the Report, and only counts water delivered to the Distribution System.
- April 2023 Lake Draw = 43.75 AF vs April 2022 = 48.98 AF. Through the 1st 4 months of 2023 Lake Draw = 215.27 AF vs through the 1st 4 months of 2022 = 196.10 AF.
- April 2023 Wells to System = 17.50 AF vs April 2022 = 18.57 AF. Through the 1st 4 months of 2023 Wells to System = 59.74 AF vs through the 1st 4 months of 2022 = 65.98 AF.
- Through the 1st 4 months of 2023 total CLAWA purchase = 0 AF vs through the 1st 4 months of 2022 = 0.06 AF.
- Through the 1st 4 months of 2023 total Recycled Water Delivered to the LACC = 0 AF vs through the 1st 4 months of 2022 = 7.07 AF.