

**LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT**

**MEMORANDUM**

**DATE:** APRIL 27, 2021

**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 2021.

**D. FISCAL IMPACT**

This is an information item.

**E. ENVIRONMENTAL IMPACT**

This is an information item.

**F. ATTACHMENTS**

- 2021 Monthly Report
- 2020 Monthly Report
- March 2021 Water Delivered Quarterly Analysis

**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
<b>1ST QUARTER</b>	<b>0.00</b>	<b>40.88</b>	<b>157.78</b>	<b>21.25</b>	<b>179.03</b>	<b>14.37</b>	<b>6.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>179.03</b>	<b>211.55</b>	<b>168.62</b>	<b>0.00</b>	<b>78.56</b>	<b>0.27</b>	<b>42.66</b>
APRIL	0.00				0.00					0.00	0.00	0.00			27.02	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
<b>2ND QUARTER</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>27.02</b>	<b>0.00</b>	<b>0.00</b>
<b>SEMI-ANNUAL</b>	<b>0.00</b>	<b>40.88</b>	<b>157.78</b>	<b>21.25</b>	<b>179.03</b>	<b>14.37</b>	<b>6.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>179.03</b>	<b>211.55</b>	<b>168.62</b>	<b>0.00</b>	<b>105.58</b>	<b>0.27</b>	<b>42.66</b>
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
<b>3RD QUARTER</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
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
<b>4TH QUARTER</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>ANNUAL TOTAL</b>	<b>0.00</b>	<b>40.88</b>	<b>157.78</b>	<b>21.25</b>	<b>179.03</b>	<b>14.37</b>	<b>6.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>179.03</b>	<b>211.55</b>	<b>168.62</b>	<b>0.00</b>	<b>105.58</b>	<b>0.27</b>	<b>42.66</b>

(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.

\* 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.

**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
<b>1ST QUARTER</b>	<b>0.00</b>	<b>45.14</b>	<b>114.84</b>	<b>31.20</b>	<b>146.04</b>	<b>12.71</b>	<b>6.88</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>146.04</b>	<b>185.35</b>	<b>152.07</b>	<b>0.00</b>	<b>80.17</b>	<b>0.57</b>	<b>32.71</b>
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	16.25	132.44	0.00	132.44	9.59	7.93	0.00	0.00	0.00	132.44	147.03	128.20	0.00	27.36	-3.07	21.90
JUNE	0.00	15.24	112.47	37.22	149.69	11.71	6.70	0.00	8.99	8.99	149.69	168.91	149.47	0.00	24.29	0.99	18.45
<b>2ND QUARTER</b>	<b>0.00</b>	<b>47.02</b>	<b>300.93</b>	<b>37.22</b>	<b>338.15</b>	<b>25.94</b>	<b>17.43</b>	<b>0.00</b>	<b>8.99</b>	<b>8.99</b>	<b>338.15</b>	<b>385.65</b>	<b>332.67</b>	<b>0.01</b>	<b>78.79</b>	<b>-1.86</b>	<b>54.83</b>
<b>SEMI-ANNUAL</b>	<b>0.00</b>	<b>92.16</b>	<b>415.77</b>	<b>68.42</b>	<b>484.19</b>	<b>38.65</b>	<b>24.31</b>	<b>0.00</b>	<b>8.99</b>	<b>8.99</b>	<b>484.19</b>	<b>571.00</b>	<b>484.74</b>	<b>0.01</b>	<b>158.96</b>	<b>-1.29</b>	<b>87.54</b>
JULY	0.00	15.66	118.68	58.27	176.95	12.16	6.70	0.00	13.29	13.29	176.95	200.44	183.88	0.00	25.28	1.51	15.05
AUGUST	0.00	15.07	113.77	65.33	179.10	12.99	5.78	0.00	13.22	13.22	179.10	200.18	181.37	0.00	26.79	1.24	17.57
SEPTEMBER	0.00	14.27	101.99	59.93	161.92	11.34	5.63	0.00	10.50	10.50	161.92	180.98	164.41	0.00	28.03	0.06	16.51
<b>3RD QUARTER</b>	<b>0.00</b>	<b>45.00</b>	<b>334.44</b>	<b>183.53</b>	<b>517.97</b>	<b>36.49</b>	<b>18.11</b>	<b>0.00</b>	<b>37.01</b>	<b>37.01</b>	<b>517.97</b>	<b>581.60</b>	<b>529.66</b>	<b>0.00</b>	<b>80.10</b>	<b>2.81</b>	<b>49.13</b>
OCTOBER	0.00	14.76	91.85	46.27	138.12	11.13	5.41	0.00	0.00	0.00	138.12	147.16	132.27	0.00	28.09	-0.64	15.53
NOVEMBER	0.00	13.76	69.12	0.00	69.12	5.64	4.36	0.00	0.00	0.00	69.12	81.60	70.04	0.00	27.45	-0.29	11.85
DECEMBER	0.00	14.25	67.65	0.00	67.65	5.94	1.47	0.00	0.00	0.00	67.65	77.43	65.35	0.00	27.16	-0.41	12.49
<b>4TH QUARTER</b>	<b>0.00</b>	<b>42.77</b>	<b>228.62</b>	<b>46.27</b>	<b>274.89</b>	<b>22.71</b>	<b>11.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>274.89</b>	<b>306.19</b>	<b>267.66</b>	<b>0.00</b>	<b>82.70</b>	<b>-1.34</b>	<b>39.87</b>
<b>ANNUAL TOTAL</b>	<b>0.00</b>	<b>179.93</b>	<b>978.83</b>	<b>298.22</b>	<b>1277.05</b>	<b>97.85</b>	<b>53.66</b>	<b>0.00</b>	<b>46.00</b>	<b>46.00</b>	<b>1277.05</b>	<b>1458.79</b>	<b>1282.06</b>	<b>0.01</b>	<b>321.76</b>	<b>0.18</b>	<b>176.54</b>

(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.

April 27, 2021

### March 2021 Water Delivered Quarterly Analysis

- In March 2021 (68.16AF), consumption was up by 17% when compared to March 2020 (58.23 AF). Through the 1<sup>st</sup> Quarter of 2021 (211.55 AF), consumption was 14% higher when compared to the 1<sup>st</sup> Quarter of 2020 (185.35). These numbers are based off column (12) on the Report, and only counts water delivered to the Distribution System.
- March 2021 Lake Draw = 55.59 AF vs March 2020 = 44.08 AF. Through the 1<sup>st</sup> Quarter of 2021 Lake Draw = 179.03 AF vs through the 1<sup>st</sup> Quarter of 2020 = 146.04 AF.
- March 2021 Wells to System = 14.09 AF vs March 2020 = 15.07 AF. Through the 1<sup>st</sup> Quarter of 2021 Wells to System = 40.88 AF vs through the 1<sup>st</sup> Quarter of 2020 = 45.14 AF.
- Through the 1<sup>st</sup> Quarter of 2021 total CLAWA purchase = 0 AF vs through the 1<sup>st</sup> Quarter of 2020 = 0 AF.
- Recycled water deliveries to the LACC commenced on April 14, 2021.