

**LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT**

**MEMORANDUM**

**DATE:** JUNE 25, 2019

**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 2019.

**D. FISCAL INFORMATION**

This is an information item.

**E. ENVIRONMENTAL IMPACT**

This is an information item.

**F. ATTACHMENTS**

- 2019 Monthly Report
- 2018 Monthly Report
- May 2019 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)
2019 MONTH	TRANSFER TO GV LAKE	WELLS TO SYSTEM	BERNINA PLANT	CEDAR GLEN PLANT	COMBINED PLANT	COMBINED PLANT BACKWASH	BERNINA RECYCLE	ROT/W CLAWA PURCHASE (a)	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	13.17	0.00	60.63	60.63	4.33	0.00	0.00	0.00	0.00	60.63	69.47	56.45	23.82	0.80	12.22
FEBRUARY	0.00	15.90	1.38	55.11	56.49	4.54	0.00	0.00	0.00	0.00	56.49	67.85	53.02	24.62	2.09	12.74
MARCH	0.00	18.62	11.93	34.18	46.11	3.84	0.29	0.00	0.00	0.00	46.11	61.18	50.91	26.71	-0.28	10.55
<b>1ST QUARTER</b>	<b>0.00</b>	<b>47.69</b>	<b>13.31</b>	<b>149.92</b>	<b>163.23</b>	<b>12.71</b>	<b>0.29</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>163.23</b>	<b>198.50</b>	<b>160.38</b>	<b>75.15</b>	<b>2.61</b>	<b>35.51</b>
APRIL	0.00	19.37	51.07	0.00	51.07	4.56	2.37	0.00	0.00	0.00	51.07	68.25	57.30	26.43	0.00	10.95
MAY	0.00	17.66	83.86	0.00	83.86	6.93	4.26	0.00	0.00	0.00	83.86	98.85	84.74	26.37	1.78	12.33
JUNE	0.00				0.00					0.00	0.00	0.00		28.15	0.00	0.00
<b>2ND QUARTER</b>	<b>0.00</b>	<b>37.03</b>	<b>134.93</b>	<b>0.00</b>	<b>134.93</b>	<b>11.49</b>	<b>6.63</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>134.93</b>	<b>167.10</b>	<b>142.04</b>	<b>80.95</b>	<b>1.78</b>	<b>23.28</b>
<b>SEMI-ANNUAL</b>	<b>0.00</b>	<b>84.72</b>	<b>148.24</b>	<b>149.92</b>	<b>298.16</b>	<b>24.20</b>	<b>6.92</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>298.16</b>	<b>365.60</b>	<b>302.42</b>	<b>156.10</b>	<b>4.39</b>	<b>58.79</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>
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>ANNUAL TOTAL</b>	<b>0.00</b>	<b>84.72</b>	<b>148.24</b>	<b>149.92</b>	<b>298.16</b>	<b>24.20</b>	<b>6.92</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>298.16</b>	<b>365.60</b>	<b>302.42</b>	<b>156.10</b>	<b>4.39</b>	<b>58.79</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)) - (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)
2018 MONTH	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	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	10.12	0.00	52.02	52.02	2.43	0.00	0.00	0.00	0.00	52.02	59.71	48.50	26.04	1.26	9.95
MARCH	0.00	11.29	0.00	49.63	49.63	1.69	0.00	0.00	0.00	0.00	49.63	59.23	48.48	27.30	-0.22	10.97
<b>1ST QUARTER</b>	<b>0.00</b>	<b>32.98</b>	<b>0.00</b>	<b>134.58</b>	<b>134.58</b>	<b>5.69</b>	<b>0.00</b>	<b>19.68</b>	<b>0.00</b>	<b>19.68</b>	<b>134.58</b>	<b>181.55</b>	<b>148.28</b>	<b>81.07</b>	<b>-0.65</b>	<b>33.92</b>
APRIL	0.00	11.74	0.00	53.17	53.17	3.35	0.00	0.00	5.56	5.56	53.17	67.12	58.56	27.08	-0.84	9.40
MAY	0.00	10.66	0.00	88.24	88.24	5.38	0.00	0.00	26.83	26.83	88.24	120.35	107.30	26.24	-0.90	13.95
JUNE	0.00	11.78	0.00	92.50	92.50	6.17	0.00	16.61	40.51	57.12	92.50	155.23	142.44	25.34	2.37	10.42
<b>2ND QUARTER</b>	<b>0.00</b>	<b>34.18</b>	<b>0.00</b>	<b>233.91</b>	<b>233.91</b>	<b>14.90</b>	<b>0.00</b>	<b>16.61</b>	<b>72.90</b>	<b>89.51</b>	<b>233.91</b>	<b>342.70</b>	<b>308.30</b>	<b>78.66</b>	<b>0.63</b>	<b>33.77</b>
<b>SEMI-ANNUAL</b>	<b>0.00</b>	<b>67.16</b>	<b>0.00</b>	<b>368.49</b>	<b>368.49</b>	<b>20.59</b>	<b>0.00</b>	<b>36.29</b>	<b>72.90</b>	<b>109.19</b>	<b>368.49</b>	<b>524.25</b>	<b>456.58</b>	<b>159.73</b>	<b>-0.02</b>	<b>67.69</b>
JULY	0.00	11.50	9.40	99.83	109.23	9.96	0.00	55.46	19.89	75.35	109.23	186.12	170.23	27.71	-2.07	17.96
AUGUST	0.00	13.97	131.55	48.47	180.02	16.04	6.83	1.90	0.07	1.97	180.02	181.94	170.15	25.64	2.25	9.54
SEPTEMBER	0.00	13.54	9.19	84.19	93.38	8.19	0.54	60.52	0.00	60.52	93.38	159.79	149.19	27.89	-4.66	15.26
<b>3RD QUARTER</b>	<b>0.00</b>	<b>39.01</b>	<b>150.14</b>	<b>232.49</b>	<b>382.63</b>	<b>34.19</b>	<b>7.37</b>	<b>117.88</b>	<b>19.96</b>	<b>137.84</b>	<b>382.63</b>	<b>527.85</b>	<b>489.57</b>	<b>81.24</b>	<b>-4.48</b>	<b>42.76</b>
OCTOBER	0.00	13.07	0.00	75.67	75.67	6.96	0.00	31.73	0.00	31.73	75.67	113.51	102.84	23.23	1.00	9.67
NOVEMBER	0.00	12.56	0.00	72.33	72.33	5.71	0.00	0.00	0.00	0.00	72.33	79.18	65.62	24.23	-0.63	14.19
DECEMBER	0.00	12.04	0.00	66.31	66.31	4.59	0.00	0.00	0.00	0.00	66.31	73.76	60.03	23.60	0.22	13.51
<b>4TH QUARTER</b>	<b>0.00</b>	<b>37.67</b>	<b>0.00</b>	<b>214.31</b>	<b>214.31</b>	<b>17.26</b>	<b>0.00</b>	<b>31.73</b>	<b>0.00</b>	<b>31.73</b>	<b>214.31</b>	<b>266.45</b>	<b>228.49</b>	<b>71.06</b>	<b>0.59</b>	<b>37.37</b>
<b>ANNUAL TOTAL</b>	<b>0.00</b>	<b>143.84</b>	<b>150.14</b>	<b>815.29</b>	<b>965.43</b>	<b>72.04</b>	<b>7.37</b>	<b>185.90</b>	<b>92.86</b>	<b>278.76</b>	<b>965.43</b>	<b>1318.55</b>	<b>1174.64</b>	<b>312.03</b>	<b>-3.91</b>	<b>147.82</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 = Bernina System Input Meter + (4) + (8)

(d) Un-Metered Water = ((12) - (13)) - (15)

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

June 25, 2019

### May 2019 Water Delivered Annual Analysis

- In May 2019 (98.85 AF), consumption was 17.9% lower when compared to May 2018 (120.35 AF). However, through the 1st 5 months of 2019 (365.60 AF), consumption was similar when compared to the 1st 5 months of 2018 (369.02 AF). These numbers are based off of column (12) on the Report, and only counts water delivered to the Distribution System.
- May 2019 Lake Draw = 83.86 AF vs May 2018 = 88.24 AF. Through the 1st 5 months of 2019 Lake Draw = 298.16 AF vs through the 1st 5 months of 2018 = 275.99 AF.
- May 2019 Wells to System = 17.66 AF vs May 2018 = 10.66 AF. Through the 1st 5 months of 2019 Wells to System = 84.72 AF vs through the 1st 5 months of 2018 = 55.38 AF.
- Through the 1st 5 months of 2019 total CLAWA purchase = 0 AF vs through the 1st 5 months of 2018 = 52.07 AF.
- Through the 1st 5 months of 2019 total Recycled Water Delivered to the LACC = 12.55 AF vs through the 1st 5 months of 2018 = 65.44 AF.