



April 24, 2018

**TO:** LOCSO Board of Directors

**FROM:** Jose Acosta, Utility Systems Manager *JA*  
 Frank Asuncion, Water Resource Crew Leader  
 Liz Radvansky, Utility Billing Specialist

**SUBJECT:** **Agenda Item 9C – 5/3/2018 Board Meeting**  
 Utilities Department Report for **March 2018**

**President**  
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**WATER PRODUCTION INFORMATION**

The total production for the month of **March 2018** was approximately **12.3 million gallons (MG)** this equates to an average daily demand of **395,000** gallons. This represents a **decrease** in production from last year by approximately **10.77%**.

Using the state's formula to calculate residential usage per capita per day, for the month of **March 2018** our residential customers used **52.8** gallons per person per day.

**PRODUCTION AND RUNTIME HOURS BY WELL SITE**

The following tables break down the production by well site and runtime on the pump motors for the month of **March 2018**. Totals for last year are included for comparison:

<b>Production (MG) March</b>	<b>2018</b>	<b>2017</b>	<b>% Change</b>
Palisades	2.39	0.67	257.0%
3 <sup>rd</sup> Street/Bayside	0	0	0%
8 <sup>th</sup> Street/El Moro	3.89	5.46	-40.4%
10 <sup>th</sup> Street	3.37	4.67	-28.8%
South Bay (lower)	2.06	2.05	0.5%
South Bay (upper)	0.63	0.88	-39.7%
<b>TOTAL:</b>	<b>12.34</b>	<b>13.73</b>	

<b>Runtime (Hours) March</b>	<b>2018</b>	<b>2017</b>
Palisades	111.1	27.8
3 <sup>rd</sup> Street/Bayside	0.6	0.2
8 <sup>th</sup> Street/El Moro	181.6	244.0
10 <sup>th</sup> Street	183.2	253.5
South Bay (lower)	721.0	716.9
South Bay (upper)	280.9	390.5
<b>TOTAL:</b>	<b>1478.4</b>	<b>1632.9</b>

**WATER BILLING INFORMATION**

Forty-three percent of the service area received bills for approximately **9.03 MG** consumption for the period January 10, 2018, through March 7, 2018. This generated approximately **\$159,040.50** in revenue.

**UTILITIES DEPARTMENT OPERATIONS AND MAINTENANCE**

During the month of March 2018, the Utilities crew performed all required operations and maintenance tasks. The various tasks and facilities maintained are:

**WATER DISTRIBUTION AND TREATMENT**

- Daily, weekly, and monthly water quality sampling, analysis and reporting, for all well sites and throughout the distribution system.
- Monthly meter reading.
- 10<sup>th</sup> Street reservoir altitude valve rebuild.
- Troubleshoot South Bay Ion exchange regeneration issues. Adjust tank levels to allow proper amount of brine regeneration.
- Valve exercising program
- Service line upgrade at 1230 3rd St.

**DRAINAGE WID # 3 40M2000133**

The District continue to operate and comply with the General National Pollutant Discharge Elimination System (NPDES) Permit for storm water discharges for small Municipal Separate Storm Sewer Systems (MS4). Storm water pollution prevention measures are available on the District's Drainage web page: <http://www.losososcsd.org/drainage-e293b4b>

- Bayridge drainage pump maintenace, pump went out, replaced with a standby unit.

**RAINFALL TOTALS**

The County has a link to rain and reservoir information: <http://wr.slocountywater.org/home.php>  
 Below is a table of historical rainfall totals from the Los Osos Landfill rain monitor. This has been arranged to coincide with our Water Shortage Contingency Plan Climate Trigger which is based on rainfall measured from April 1<sup>st</sup> through March 31<sup>st</sup>.

<b>Station Name and Number</b>							<b>Los Osos Landfill # 727</b>								
	<b>*** All units are in inches ***</b>														
<b>Water Year</b>	<b>APR</b>	<b>MAY</b>	<b>JUN</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>Total</b>		
2017 - 2018	0.55	0.27	0.00	0.00	0.00	0.16	0.16	0.47	0.12	3.78	0.16	7.95	<b>13.62</b>		
2016 - 2017	0.20	0.00	0.00	0.00	0.00	0.00	1.65	2.76	3.39	9.02	7.65	1.34	<b>26.01</b>		
2015 - 2016	0.67	0.12	0.00	1.93	0.00	0.08	0.08	1.26	1.85	5.04	0.86	4.85	<b>16.74</b>		
2014 - 2015	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.28	5.20	0.08	0.91	0.43	<b>7.61</b>		
2013 - 2014	0.31	0.12	0.04	0.00	0.00	0.00	0.24	0.28	0.12	0.00	4.06	1.42	<b>6.59</b>		
2012 - 2013	2.24	0.00	0.00	0.00	0.00	0.00	1.18	1.69	2.64	1.02	0.67	0.43	<b>9.87</b>		

**RECOMMENDATION**

Staff encourages the Board to ask any questions they may have with regard to the aforementioned report or any other related item that may be listed separately as an agenda item.

Attachment

<b>March 2018</b>	<b>8th St./ EI Moro Well</b>	<b>3rd St./ Bayside Well</b>	<b>10th St. Well</b>	<b>South Bay Well</b>	<b>South Bay Upper Well</b>	<b>Palisades Well</b>	<b>All Wells TOTAL</b>	<b>Last Years TOTAL</b>	<b>Percent% Differential</b>
Total Gallons Produced, Mgal	3.8929	0.0000	3.3705	2.0567	0.6300	2.2938	12.2439	13.7218	-10.77%
Average Daily Flow, Mgal							0.3950	0.4426	
Total Gallons to Waste (Filter Backwash), Mgal	0.0000			0.0000	0.1400		0.1400	0	
Total Gallons to Waste (System Flushing), Mgal							0.0000	0.0701	
Distribution System Losses (Water Line Breaks), Mgal							0.0000	0	
Total Gallons Adjusted, Mgal	3.8929			2.0567			12.1039	13.6517	-11.34%
Pump Runtime, total hours	181.6	0.6	183.2	721.0	280.9	111.1	1478.4	1632.9	-9.46%
Daily Avg. Runtime, hours/day	5.9	0.0	5.9	23.3	9.1	3.6			
Energy Used, kWatts	7271	37	8264	10546		4045	30163	32258	-6.49%
Eff. Ratio, kWatts/hr	40.04	61.67	45.11	14.63		36.41			
Chlorine Used, total gallons	33.8	0.0	24.7	25.1		15.2	98.8	130.6	-24.34%
Aqua Mag, pounds	29.0		19.2	0.0		22.8	71.0	71.2	-0.28%
Static water level, ft.	28.20	3.50	147.20	0.00	90.90	96.40			
Pump water level, ft.	145.10	OUT OF SERV	258.40	171.50	0.00	168.90			
Draw-down level, ft.	116.90	OUT OF SERV	111.20	171.50	-90.90	72.50			
Gallons per minute	362	0	340	0	0	300			
Pressure, psi	98	0	40	69	0	55			

LOCSD Water Data

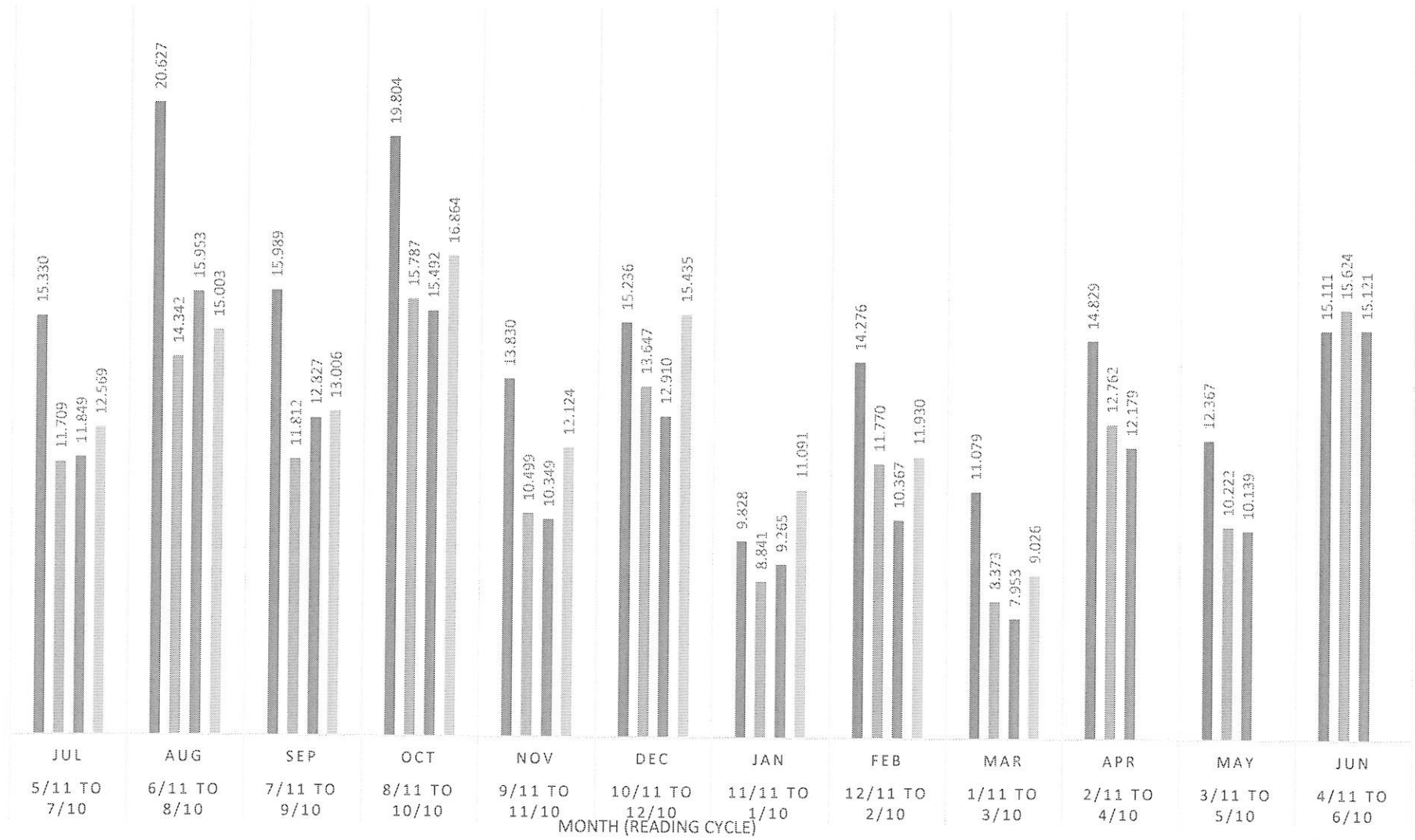
Water Consumption Data in Million Gallons						
% of Service Area	Billing Period		FY 14-15	FY 15-16	FY 16-17	FY 17-18
43	5/11 to 7/10	Jul	15.330	11.709	11.849	12.569
57	6/11 to 8/10	Aug	20.627	14.342	15.953	15.003
43	7/11 to 9/10	Sep	15.989	11.812	12.827	13.006
57	8/11 to 10/10	Oct	19.804	15.787	15.492	16.864
43	9/11 to 11/10	Nov	13.830	10.499	10.349	12.124
57	10/11 to 12/10	Dec	15.236	13.647	12.910	15.435
43	11/11 to 1/10	Jan	9.828	8.841	9.265	11.091
57	12/11 to 2/10	Feb	14.276	11.770	10.367	11.930
43	1/11 to 3/10	Mar	11.079	8.373	7.953	9.026
57	2/11 to 4/10	Apr	14.829	12.762	12.179	
43	3/11 to 5/10	May	12.367	10.222	10.139	
57	4/11 to 6/10	Jun	15.111	15.624	15.121	
		<b>TOTAL</b>	<b>178.306</b>	<b>145.388</b>	<b>144.405</b>	<b>117.048</b>

Consumption is billed for a two month period every month.  
 Revenue is based on gallons billed - not cash received.  
 Production is recorded daily.

## HISTORICAL TO PRESENT LOCS D WATER CONSUMPTION BASED ON BILLING

FY 14-15  
  FY 15-16  
  FY 16-17  
  FY 17-18

MILLION GALLONS (MG)



LOCSD Water Data

Water Revenue Data						
% of Service Area	Billing Period		FY 14-15	FY 15-16	FY 16-17	FY 17-18
43	5/11 to 7/10	Jul	\$137,752.98	\$119,138.01	\$139,017.75	\$168,526.79
57	6/11 to 8/10	Aug	\$187,468.02	\$154,995.56	\$197,721.40	\$221,879.21
43	7/11 to 9/10	Sep	\$147,808.06	\$135,669.34	\$163,852.81	\$207,172.18
57	8/11 to 10/10	Oct	\$182,463.96	\$178,030.01	\$198,170.30	\$267,370.81
43	9/11 to 11/10	Nov	\$130,772.31	\$123,221.32	\$138,130.97	\$197,358.26
57	10/11 to 12/10	Dec	\$145,977.27	\$158,798.89	\$171,281.05	\$249,409.17
43	11/11 to 1/10	Jan	\$99,970.19	\$108,532.26	\$128,300.48	\$182,543.66
57	12/11 to 2/10	Feb	\$138,344.52	\$142,733.88	\$149,015.80	\$206,709.09
43	1/11 to 3/10	Mar	\$109,092.25	\$106,198.53	\$116,824.26	\$159,040.50
57	2/11 to 4/10	Apr	\$143,355.32	\$151,554.05	\$165,317.00	
43	3/11 to 5/10	May	\$120,013.25	\$120,748.17	\$135,978.00	
57	4/11 to 6/10	Jun	\$148,384.13	\$178,943.85	\$193,625.41	
		<b>TOTAL</b>	<b>\$1,691,402.26</b>	<b>\$1,678,563.87</b>	<b>\$1,897,235.23</b>	<b>\$1,860,009.67</b>

Consumption is billed for a two month period every month.  
 Revenue is based on gallons billed - not cash received.  
 Production is recorded daily.

U. S. DOLLARS \$

## HISTORICAL TO PRESENT LOCS D WATER REVENUE BASED ON BILLING

■ FY 14-15   ■ FY 15-16   ■ FY 16-17   ■ FY 17-18

