



January 2, 2018

**TO:** LOCSD Board of Directors

**FROM:** Jose Acosta, Utilities Manager  
Frank Asuncion, Utilities Crew Leader  
Liz Radvansky, Administrative/Accounting Assistant III

**SUBJECT:** **Agenda Item 9C – 1/18/2018 Board Meeting**  
**Utilities Department Report for November 2017**

**President**  
Jon-Erik G. Storm

**Vice President**  
Vicki L. Milledge

**Directors**  
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**WATER PRODUCTION INFORMATION**

The total production for the month of **November 2017** was approximately **14.6 million gallons (MG)** this equates to an average daily demand of **486,900** gallons. This represents an **increase** in production from last year by approximately **4.94%**.

Using the state's formula to calculate residential usage per capita per day, for the month of **November 2017** our residential customers used **65.1** 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 **November 2017**. Totals for last year are included for comparison:

<b>Production (MG) November</b>	<b>2017</b>	<b>2016</b>	<b>% Change</b>
Palisades	2.49	3.96	-37.1%
3 <sup>rd</sup> Street/Bayside	0	0	0%
8 <sup>th</sup> Street/El Moro	5.69	3.90	45.9%
10 <sup>th</sup> Street	3.78	3.78	0%
South Bay (lower)	2.03	1.91	6.3%
South Bay (upper)	0.61	0.37	64.9%
<b>TOTAL:</b>	<b>14.60</b>	<b>13.92</b>	

<b>Runtime (Hours) November</b>	<b>2017</b>	<b>2016</b>
Palisades	121.1	165.9
3 <sup>rd</sup> Street/Bayside	0.3	0
8 <sup>th</sup> Street/El Moro	264.6	171.5
10 <sup>th</sup> Street	211.6	209.2
South Bay (lower)	709.8	670.2
South Bay (upper)	275.8	163.7
<b>TOTAL:</b>	<b>1582.9</b>	<b>1380.5</b>

**WATER BILLING INFORMATION**

Forty-three percent of the service area received bills for approximately **12.12 MG** consumption for the period September 11, 2017, through November 8, 2017. This generated approximately **\$197,358.26** in revenue.

## **UTILITIES DEPARTMENT OPERATIONS AND MAINTENANCE**

During the month of November 2017, 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.
- Meter change out program.
- 10<sup>th</sup> street transfer pump and motor retrofit.
- Service line upgrade at 1639 18<sup>th</sup> Street.
- Worked on SDRMA safety inspection checklist.

### **DRAINAGE WDID # 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.lososocsd.org/drainage-e293b4b>

- Crews continue to prepare drainage and pumping facilities ahead of the upcoming storm seasons.
- Work commenced on replacement of control panel for 8<sup>th</sup> Street drainage facility.

### **BAYRIDGE ESTATES and VISTA DE ORO COLLECTIONS**

Final jetting had been completed in the month of September for both systems. This is a requirement to finalize the transfer of these two systems to the county. Until finalization of transfer is complete, the district crew is responsible for responding to any customer concerns or issue within the collection systems.

- The contracts have been completed and headed to County Board of Supervisors.

## 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>.

As of today the chart below has not been updated on the county website. Based on information gathered at the Los Osos Landfill rain gauge the following rain has been recorded since November 2017:

- September- 0.16"
- October- 0.16"
- November- 0.47"

For a total of 0.79" this rain season.

<b>Station Name and Number</b>													<b>Los Osos Landfill # 727</b>		
*** All units are in inches ***															
<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										<b>0.82</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.

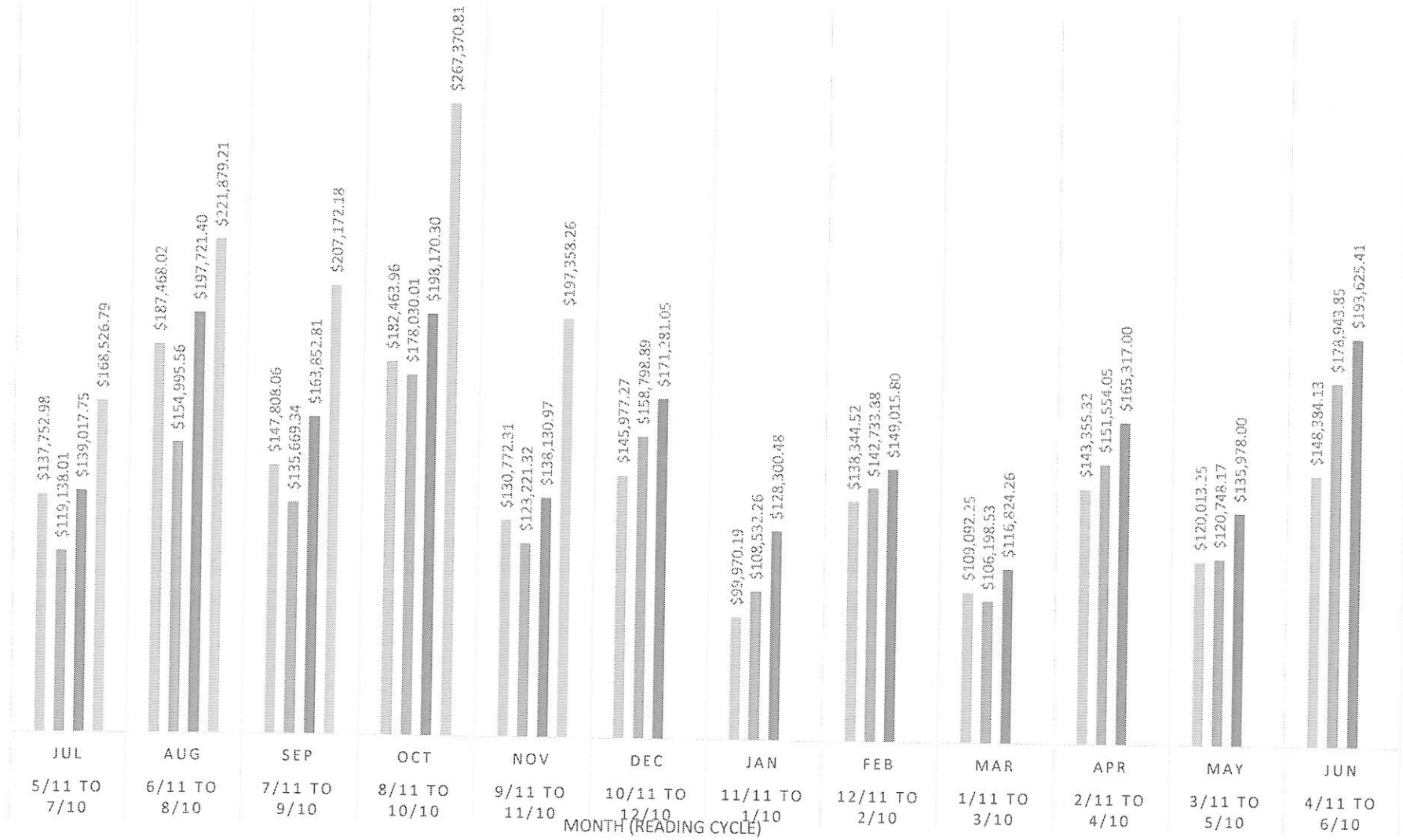
Attachment

<b>Nov-17</b>	<b>8th St./ El 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	5.6927	0.0000	3.7821	2.0299	0.6130	2.4907	14.6084	13.9213	4.94%
Average Daily Flow, Mgal							0.4869		
Total Gallons to Waste (Filter Backwash), Mgal	0.0000			0.0000	0.0108		0.0108	0.0354	
Total Gallons to Waste (System Flushing), Mgal							0.0000	0	
Distribution System Losses (Water Line Breaks), Mgal							0.0000	0	
Total Gallons Adjusted, Mgal	5.6927			2.0299			14.5976	13.8859	5.13%
Pump Runtime, total hours	264.6	0.3	211.6	709.8	275.8	121.1	1583.2	1380.5	14.68%
Daily Avg. Runtime, hours/day	8.8	0.0	7.1	23.7	9.2	4.0			
Energy Used, kWatts	10574	33	9124	10349		4432	34512	31341	10.12%
Eff. Ratio, kWatts/hr	39.96	110.00	43.12	14.58		36.60			
Chlorine Used, total gallons	75.5	0.0	31.5	27.7		20.0	154.7	134.5	15.02%
Aqua Mag, pounds	45.8		20.2	0.0		25.6	91.6	59	55.25%
Static water level, ft.	40.60	3.20	161.40	117.40	91.60	95.10			
Pump water level, ft.	156.10	0.00	246.30	180.20	102.50	188.40			
Draw-down level, ft.	115.50	0.00	84.90	62.80	10.90	93.30			
Gallons per minute	359	0	326	63	39	261			
Pressure, psi	95	0	38	61	58	58			

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



LOCSD Water Data

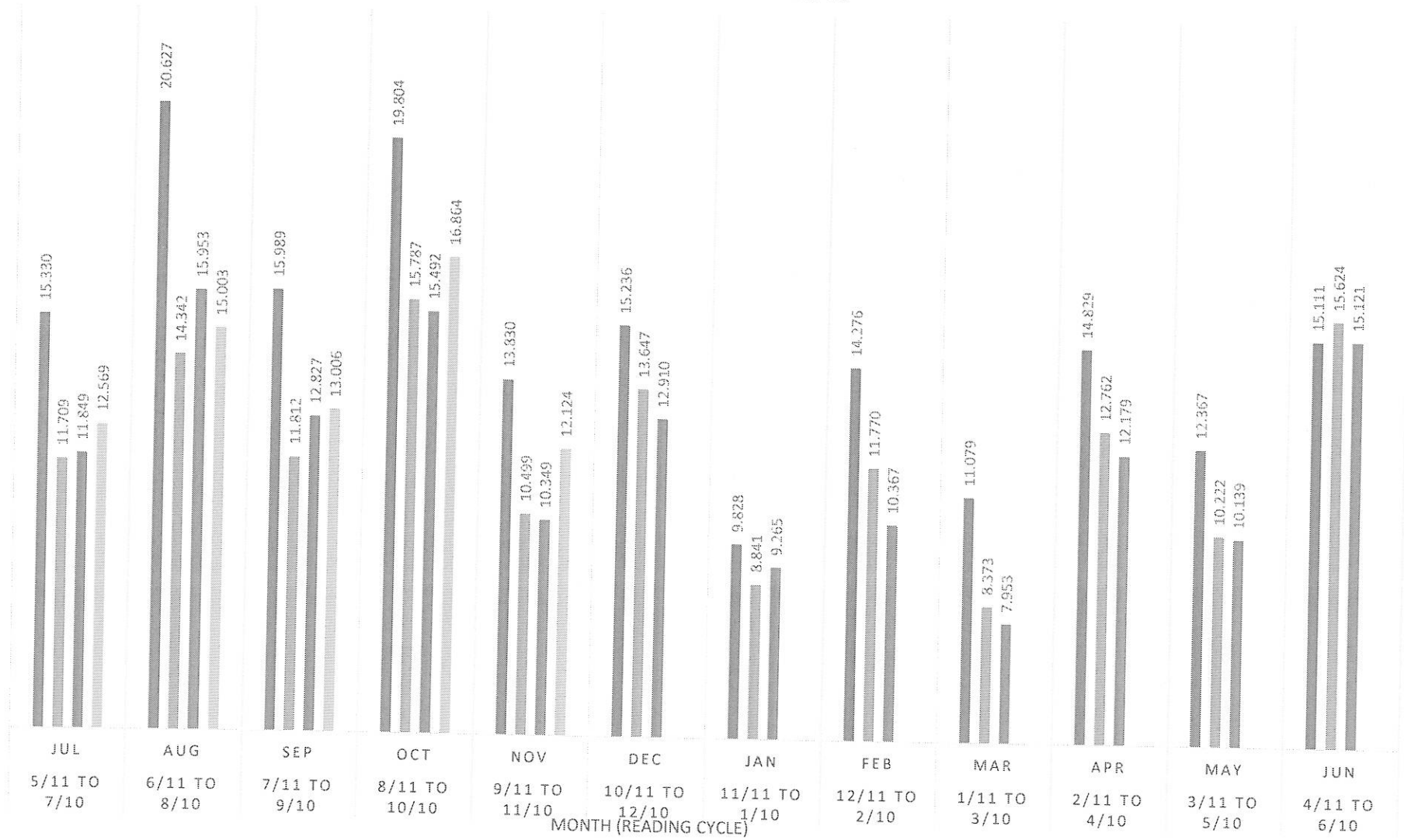
Water Revenue Data						
% of Service Area	Billing Period		FY 14-15	FY 15-16	FY 16-17	FY 17-18
43	5/11 to 7/10	Jul	\$137,752.98	\$119,138.01	\$139,017.75	\$168,526.79
57	6/11 to 8/10	Aug	\$187,468.02	\$154,995.56	\$197,721.40	\$221,879.21
43	7/11 to 9/10	Sep	\$147,808.06	\$135,669.34	\$163,852.81	\$207,172.18
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	
43	11/11 to 1/10	Jan	\$99,970.19	\$108,532.26	\$128,300.48	
57	12/11 to 2/10	Feb	\$138,344.52	\$142,733.88	\$149,015.80	
43	1/11 to 3/10	Mar	\$109,092.25	\$106,198.53	\$116,824.26	
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>\$1,062,307.25</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 LOCD WATER CONSUMPTION BASED ON BILLING

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

MILLION GALLONS (MG)



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	
43	11/11 to 1/10	Jan	9.828	8.841	9.265	
57	12/11 to 2/10	Feb	14.276	11.770	10.367	
43	1/11 to 3/10	Mar	11.079	8.373	7.953	
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>69.566</b>

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