




November 27, 2017

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 – 12/7/2017 Board Meeting**
 Utilities Department Report for **October 2017**

President
 Jon-Erik G. Storm

Vice President
 Vicki L. Milledge

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WATER PRODUCTION INFORMATION

The total production for the month of **October 2017** was approximately **17.6 million gallons (MG)** this equates to an average daily demand of 567,800 gallons. This represents an **increase** in production from last year by approximately **20.35%**.

Using the state's formula to calculate residential usage per capita per day, for the month of **October 2017** our residential customers used **76.0** 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 **October 2017**. Totals for last year are included for comparison:

Production (MG) October	2017	2016	% Change
Palisades	2.07	2.94	-30.0%
3 rd Street/Bayside	0	0	0%
8 th Street/El Moro	7.20	5.62	28.1%
10 th Street	5.62	4.00	40.5%
South Bay (lower)	2.09	1.98	5.6%
South Bay (upper)	0.61	0.09	577.0%
TOTAL:	17.59	14.63	

Runtime (Hours) October	2017	2016
Palisades	101.0	130.4
3 rd Street/Bayside	0.2	0
8 th Street/El Moro	339.8	251.9
10 th Street	316.1	236.2
South Bay (lower)	731.5	698.5
South Bay (upper)	276.3	37.6
TOTAL:	1673.7	1354.6

WATER BILLING INFORMATION

Fifty-seven percent of the service area received bills for approximately **16.86 MG** consumption for the period August 8, 2017, through October 10, 2017. This generated approximately **\$267,370.81** in revenue.

UTILITIES DEPARTMENT OPERATIONS AND MAINTENANCE

During the month of October 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.
- 10th street transfer pump and motor replacement, unit failed, causing tank to fill incorrectly.
- Two service line repairs. Replacement and upgrade of entire service at 1399 14th Street. Repair of service line at bike path, at El Moro between 18th Street and So. Bay Blvd.
- Landscaping and tree maintenance at 16th Street booster station.
- Painting of well head, dead-end blow offs and sample station around town, corrosion control.
- Employees attended safety and job specific trainings this month.
- Assisted Cleath Harris Associates with nitrate sampling for BMC

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.

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 1st through March 31st.

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 October 2017:

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

For a total of 0.79" this rain season.

Station Name and Number		Los Osos Landfill # 727													
*** All units are in inches ***															
Water Year	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	Total		
2017 - 2018	0.55	0.27	0.00										0.82		
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	26.01		
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	16.74		
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	7.61		
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	6.59		
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	9.87		

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

October 2017	8th St./ EI Moro Well	3rd St./ Bayside Well	10th St. Well	South Bay Well	South Bay Upper Well	Palisades Well	All Wells TOTAL	Last Years TOTAL	Percent% Differential
<i>Total Gallons Produced, Mgal</i>	7.2031	0.0000	5.6186	2.0944	0.6100	2.0744	17.6005	14.6239	20.35%
<i>Average Daily Flow, Mgal</i>							0.5678		
<i>Total Gallons to Waste (Filter Backwash), Mgal</i>	0.0245			0.0140	0.0140		0.0525	0.0383	
<i>Total Gallons to Waste (System Flushing), Mgal</i>							0.0000	0	
<i>Distribution System Losses (Water Line Breaks), Mgal</i>							0.0000	0	
<i>Total Gallons Adjusted, Mgal</i>	7.1786			2.0804			17.5480	14.5856	20.31%
<i>Pump Runtime, total hours</i>	339.8	0.2	316.1	731.5	276.3	101.0	1764.9	1354.6	30.29%
<i>Daily Avg. Runtime, hours/day</i>	11.0	0.0	10.2	23.6	8.9	3.3			
<i>Energy Used, kWatts</i>	13358	34	10191	10793		3725	38101	33543	13.59%
<i>Eff. Ratio, kWatts/hr</i>	39.31	170.00	32.24	14.75		36.88			
<i>Chlorine Used, total gallons</i>	94.3	0.0	40.6	27.8		13.4	176.0	152.4	15.49%
<i>Aqua Mag, pounds</i>	104.2		24.4	0.0		20.0	148.6	64.4	130.75%
<i>Static water level, ft.</i>	39.30	4.50	158.70	123.00	94.40	96.80			
<i>Pump water level, ft.</i>	157.70	OUT OF SERV	245.40	184.70	119.70	187.90			
<i>Draw-down level, ft.</i>	118.40	OUT OF SERV	86.70	61.70	25.30	91.10			
<i>Gallons per minute</i>	351	0	330	30	30	329			
<i>Pressure, psi</i>	0	0	37	61	64	58			

LOCSD Water Data

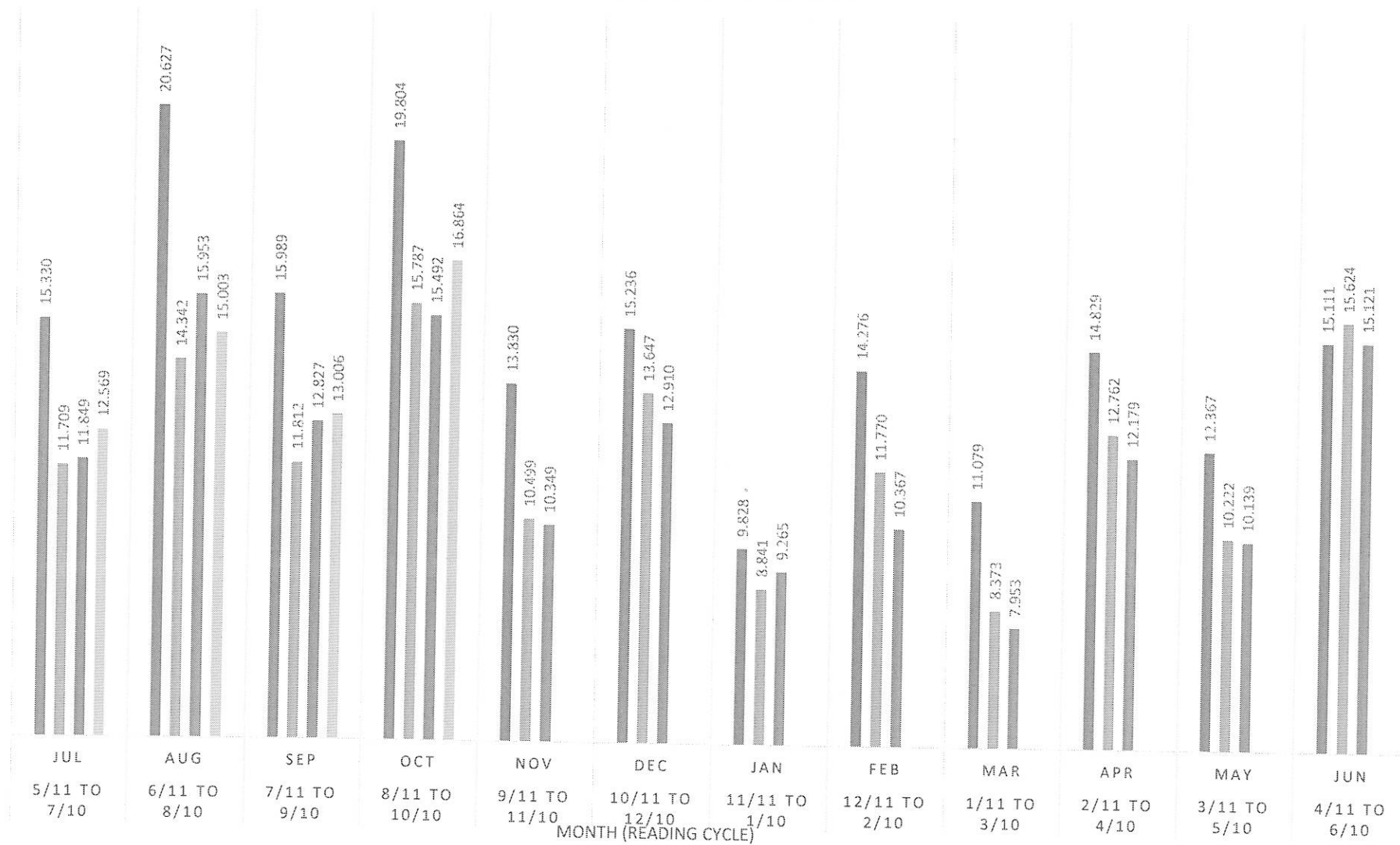
Billing Period		FY 14-15	FY 15-16	FY 16-17	FY 17-18
5/11 to 7/10	Jul	15.330	11.709	11.849	12.569
6/11 to 8/10	Aug	20.627	14.342	15.953	15.003
7/11 to 9/10	Sep	15.989	11.812	12.827	13.006
8/11 to 10/10	Oct	19.804	15.787	15.492	16.864
9/11 to 11/10	Nov	13.830	10.499	10.349	
10/11 to 12/10	Dec	15.236	13.647	12.910	
11/11 to 1/10	Jan	9.828	8.841	9.265	
12/11 to 2/10	Feb	14.276	11.770	10.367	
1/11 to 3/10	Mar	11.079	8.373	7.953	
2/11 to 4/10	Apr	14.829	12.762	12.179	
3/11 to 5/10	May	12.367	10.222	10.139	
4/11 to 6/10	Jun	15.111	15.624	15.121	
	TOTAL	178.306	145.388	144.405	57.442

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

Billing Period		FY 14-15	FY 15-16	FY 16-17	FY 17-18
5/11 to 7/10	Jul	\$137,752.98	\$119,138.01	\$139,017.75	\$168,526.79
6/11 to 8/10	Aug	\$187,468.02	\$154,995.56	\$197,721.40	\$221,879.21
7/11 to 9/10	Sep	\$147,808.06	\$135,669.34	\$163,852.81	\$207,172.18
8/11 to 10/10	Oct	\$182,463.96	\$178,030.01	\$198,170.30	\$267,370.81
9/11 to 11/10	Nov	\$130,772.31	\$123,221.32	\$138,130.97	
10/11 to 12/10	Dec	\$145,977.27	\$158,798.89	\$171,281.05	
11/11 to 1/10	Jan	\$99,970.19	\$108,532.26	\$128,300.48	
12/11 to 2/10	Feb	\$138,344.52	\$142,733.88	\$149,015.80	
1/11 to 3/10	Mar	\$109,092.25	\$106,198.53	\$116,824.26	
2/11 to 4/10	Apr	\$143,355.32	\$151,554.05	\$165,317.00	
3/11 to 5/10	May	\$120,013.25	\$120,748.17	\$135,978.00	
4/11 to 6/10	Jun	\$148,384.13	\$178,943.85	\$193,625.41	
	TOTAL	\$1,691,402.26	\$1,678,563.87	\$1,897,235.23	\$864,948.99

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

