



October 23, 2017

TO: LOCSO Board of Directors

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

SUBJECT: **Agenda Item 9C – 11/2/2017 Board Meeting**
 Utilities Department Report for **September 2017**

President
 Jon-Erik G. Storm

Vice President
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WATER PRODUCTION INFORMATION

The total production for the month of **September 2017** was approximately **17.7 million gallons (MG)** this equates to an average daily demand of 590,900 gallons. This represents an **increase** in production from last year by approximately **9.20%**.

Using the state's formula to calculate residential usage per capita per day, for the month of **September 2017** our residential customers used **79.1** 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 **September 2017**. Totals for last year are included for comparison:

Production (MG) September	2017	2016	% Change
Palisades	3.85	3.20	20.0%
3 rd Street/Bayside	0	0	0%
8 th Street/El Moro	6.55	6.25	4.8%
10 th Street	5.03	5.10	-1.4%
South Bay (lower)	2.04	1.63	25.2%
South Bay (upper)	0.25	0.06	317.0%
TOTAL:	17.72	16.24	

Runtime (Hours) September	2017	2016
Palisades	166.4	137.8
3 rd Street/Bayside	0.8	0
8 th Street/El Moro	308.0	276.4
10 th Street	284.6	284.4
South Bay (lower)	713.2	594.2
South Bay (upper)	112.4	20.4
TOTAL:	1585.4	1313.2

WATER BILLING INFORMATION

Forty-three percent of the service area received bills for approximately **13.07 MG** consumption for the period July 10, 2017, through September 12, 2017. This generated approximately **\$207,172.18** in revenue.

UTILITIES DEPARTMENT OPERATIONS AND MAINTENANCE

During the month of September 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 tank maintenance, pulling weeds and keeping lower chime area of the tank clear, to prevent tank corrosion.
- Mainline gate valve replacement at 1700 block of 15th Street. Also included was replacement of the dead end blow off line.
- Troubleshooting of South Bay ion exchange unit.
- Quarterly preventative maintenance on 16th Street booster pump station.
- Painting and upkeep at well sites.

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>

- Grounds keeping at Bayridge drainage and Ferrell yards.
- Site visit with contractor at 8th Street drainage, control panel.
- Gathering quotes for 8th Street drainage replacement pump.

BAYRIDGE ESTATES and VISTA DE ORO COLLECTIONS

Final jetting has 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.

- Gate and fence repairs at Vista de Oro compound.

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.

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

	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
Total Gallons Produced, Mgal	6.5503	0.0000	5.0328	2.0407	0.2490	3.8547	17.7275	16.2334	9.20%
Average Daily Flow, Mgal							0.5909		
Total Gallons to Waste (Filter Backwash), Mgal	0.0360						0.0360	0.032	
Total Gallons to Waste (System Flushing), Mgal							0.0000	0	
Distribution System Losses (Water Line Breaks), Mgal							0.0000	0	
Total Gallons Adjusted, Mgal	6.5143			2.0407			17.6915	16.2014	9.20%
Pump Runtime, total hours	308.0	0.8	284.6	713.2	112.4	166.4	1585.4	1313.2	20.73%
Daily Avg. Runtime, hours/day	10.3	0.0	9.5	23.8	3.7	5.5			
Energy Used, kWatts	12991	37	9151	9564		6785	38528	35326	9.06%
Eff. Ratio, kWatts/hr	42.18	46.25	32.15	13.41		40.78			
Chlorine Used, total gallons	89.3	0.0	37.0	24.0		24.9	175.1	182.8	-4.20%
Aqua Mag, pounds	121.0		29.4	0.0		43.2	193.6	62.4	210.26%
Static water level, ft.	29.10	3.70	146.40	114.20	92.20	101.20			
Pump water level, ft.	150.70	0.00	283.50	141.40	117.00	202.80			
Draw-down level, ft.	121.60	0.00	137.10	27.20	24.80	101.60			
Gallons per minute	385	0	310	52	32	300			
Pressure, psi	95	0	38	62	64	56			

LOCSD Water Data

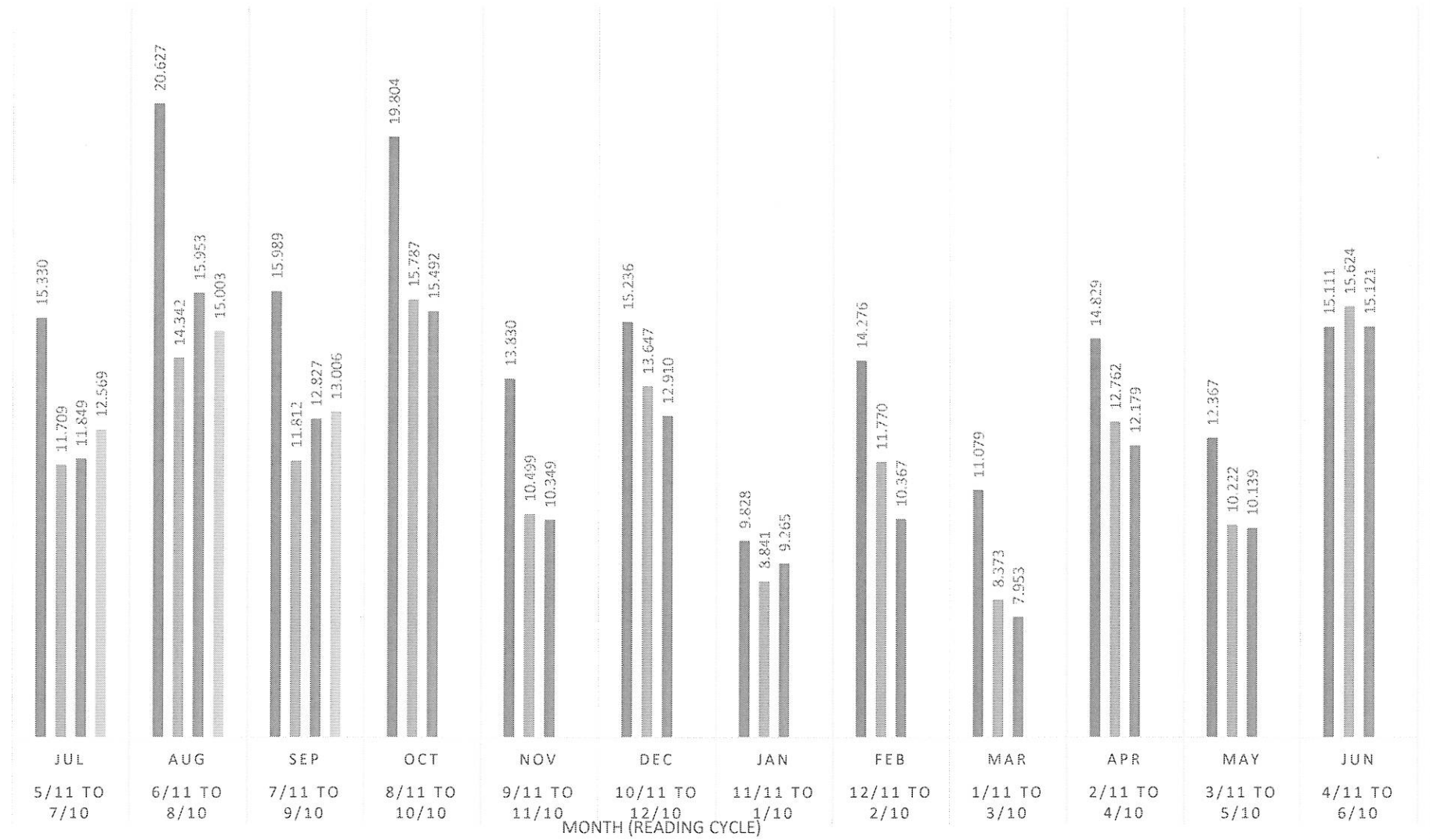
Billing Period		FY 13-14	FY 14-15	FY 15-16	FY 16-17	FY 17-18
5/11 to 7/10	Jul	18.402	15.330	11.709	11.849	12.569
6/11 to 8/10	Aug	24.061	20.627	14.342	15.953	15.003
7/11 to 9/10	Sep	16.087	15.989	11.812	12.827	13.006
8/11 to 10/10	Oct	22.142	19.804	15.787	15.492	
9/11 to 11/10	Nov	15.994	13.830	10.499	10.349	
10/11 to 12/10	Dec	23.342	15.236	13.647	12.910	
11/11 to 1/10	Jan	13.105	9.828	8.841	9.265	
12/11 to 2/10	Feb	15.969	14.276	11.770	10.367	
1/11 to 3/10	Mar	11.886	11.079	8.373	7.953	
2/11 to 4/10	Apr	15.559	14.829	12.762	12.179	
3/11 to 5/10	May	14.131	12.367	10.222	10.139	
4/11 to 6/10	Jun	20.852	15.111	15.624	15.121	
	TOTAL	211.530	178.306	145.388	144.405	40.578

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 13-14	FY 14-15	FY 15-16	FY 16-17	FY 17-18
5/11 to 7/10	Jul	\$150,401.90	\$137,752.98	\$119,138.01	\$139,017.75	\$168,526.79
6/11 to 8/10	Aug	\$147,246.54	\$187,468.02	\$154,995.56	\$197,721.40	\$221,879.21
7/11 to 9/10	Sep	\$145,135.28	\$147,808.06	\$135,669.34	\$163,852.81	\$207,172.18
8/11 to 10/10	Oct	\$187,431.78	\$182,463.96	\$178,030.01	\$198,170.30	
9/11 to 11/10	Nov	\$143,029.03	\$130,772.31	\$123,221.32	\$138,130.97	
10/11 to 12/10	Dec	\$206,187.91	\$145,977.27	\$158,798.89	\$171,281.05	
11/11 to 1/10	Jan	\$120,500.40	\$99,970.19	\$108,532.26	\$128,300.48	
12/11 to 2/10	Feb	\$137,045.65	\$138,344.52	\$142,733.88	\$149,015.80	
1/11 to 3/10	Mar	\$111,475.31	\$109,092.25	\$106,198.53	\$116,824.26	
2/11 to 4/10	Apr	\$121,943.68	\$143,355.32	\$151,554.05	\$165,317.00	
3/11 to 5/10	May	\$128,784.61	\$120,013.25	\$120,748.17	\$135,978.00	
4/11 to 6/10	Jun	\$187,230.13	\$148,384.13	\$178,943.85	\$193,625.41	
	TOTAL	\$1,786,412.22	\$1,691,402.26	\$1,678,563.87	\$1,897,235.23	\$597,578.18

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

