



March 21, 2019

TO: LOCSO Board of Directors

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

SUBJECT: **Agenda Item 9C – 4/4/2019 Board Meeting**
 Utilities Department Report for **February 2019**

JA

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WATER PRODUCTION INFORMATION

The total production for the month of **February 2019** was approximately **10.3 million gallons (MG)** this equates to an average daily demand of **368,900** gallons. This represents a **decrease** in production from last year by approximately **18.65%**.

Using the state's formula to calculate residential usage per capita per day, for the month of **February 2019** our residential customers used 49.4 gallons per person per day, a decrease from 60.7 gallons per person per day in February 2018.

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 **February 2019**. Totals for last year are included for comparison:

Production (MG) February	2019	2018	% Change
Palisades	1.99	2.37	-22.1
3 rd Street/Bayside	0	0	0%
8 th Street/El Moro	4.12	4.34	-4.8%
10 th Street	3.73	3.45	11.4%
South Bay (lower)	0.00	1.88	-26.2%
South Bay (upper)	0.49	0.65	-28.2%
TOTAL:	10.33	12.81	

Runtime (Hours) January	2019	2018
Palisades	95.0	113.2
3 rd Street/Bayside	0.1	0.5
8 th Street/El Moro	200.9	203.4
10 th Street	213.0	189.8
South Bay (lower)	0.0	660.9
South Bay (upper)	291.9	292.6
TOTAL:	800.9	1459.9

WATER BILLING INFORMATION

Fifty-seven percent of the service area received bills for approximately **11.47 MG** consumption for the period December 11, 2018 through February 12, 2019. This generated approximately **\$224,826.24** in revenue.

UTILITIES DEPARTMENT OPERATIONS AND MAINTENANCE

During the month of February 2019, 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.
- Completed repairs on the portions of the water yard fencing, damaged during the storms.
- Commenced valve exercising program utilizing the newly purchased valve exercising machine. Crew was able to free up two valves that previously were non-operable.
- Performed distribution sample site maintenance, cleaning, repairing and ensuring proper operation.
- Continued residential meter replacement program, 36 changed out.
- Completed reports County Air Pollution Control District.
- Completed well house maintenance at Palisades well, including replacing of weather stripping, water logged door, painted trim and replaced metal flashing.

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.losososcscsd.org/drainage-e293b4b>

- Reconfigured and constricted a new lid for Bayridge drainage pump vault.

RAINFALL TOTALS

The County has a link to rain and reservoir information: <http://wr.slocounty.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	
2018-2019	0.79	0.00	0.00	0.00	0.00	0.00	0.43	3.75	1.14	6.14	6.90		19.15	
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	13.62	
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.

Attachments

FEBRUARY 2019	8th St./ El 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	4.1152	0.0000	3.7349	0.0000	0.4929	1.9865	10.3296	12.6979	-18.65%
Average Daily Flow, Mgal							0.3689	0.4535	
Total Gallons to Waste (Filter Backwash), Mgal	0.0000			0.0000	0.0000		0.0000	0	
Total Gallons to Waste (System Flushing), Mgal							0.0000	0.0000	
Distribution System Losses (Water Line Breaks), Mgal							0.0000	0.0000	
Total Gallons Adjusted, Mgal	4.1152			0.0000			10.3296	12.6979	-18.65%
Pump Runtime, total hours	200.9	0.1	213.0	0.0	291.9	95.0	800.9	1460.4	-45.16%
Daily Avg. Runtime, hours/day	7.2	0.0	7.6	0.0	10.4	3.4			
Energy Used, kWatts	7993	31	9156	1898		3477	22555	30635	-26.38%
Eff. Ratio, kWatts/hr	39.79	0.00	42.99	0.00		36.60			
Chlorine Used, total gallons	52.9	0.0	24.9	6.0		13.4	97.3	119.7	-18.74%
Aqua Mag, pounds	36.2		28.8	0.0		13.8	78.8	75.6	4.23%
Static water level, ft.	27.50	3.70	152.40	106.20	88.50	90.10			
Pump water level, ft.	145.80	N/A	286.80	N/A	113.60	184.50			
Draw-down level, ft.	118.30	N/A	134.40	N/A	25.10	94.40			
Gallons per minute	347	N/A	330	N/A	36	262	3rd St. Well out of service		
Pressure, psi	95	N/A	35	N/A	61	57			

Well Log Summaries

LOCSD Water Data

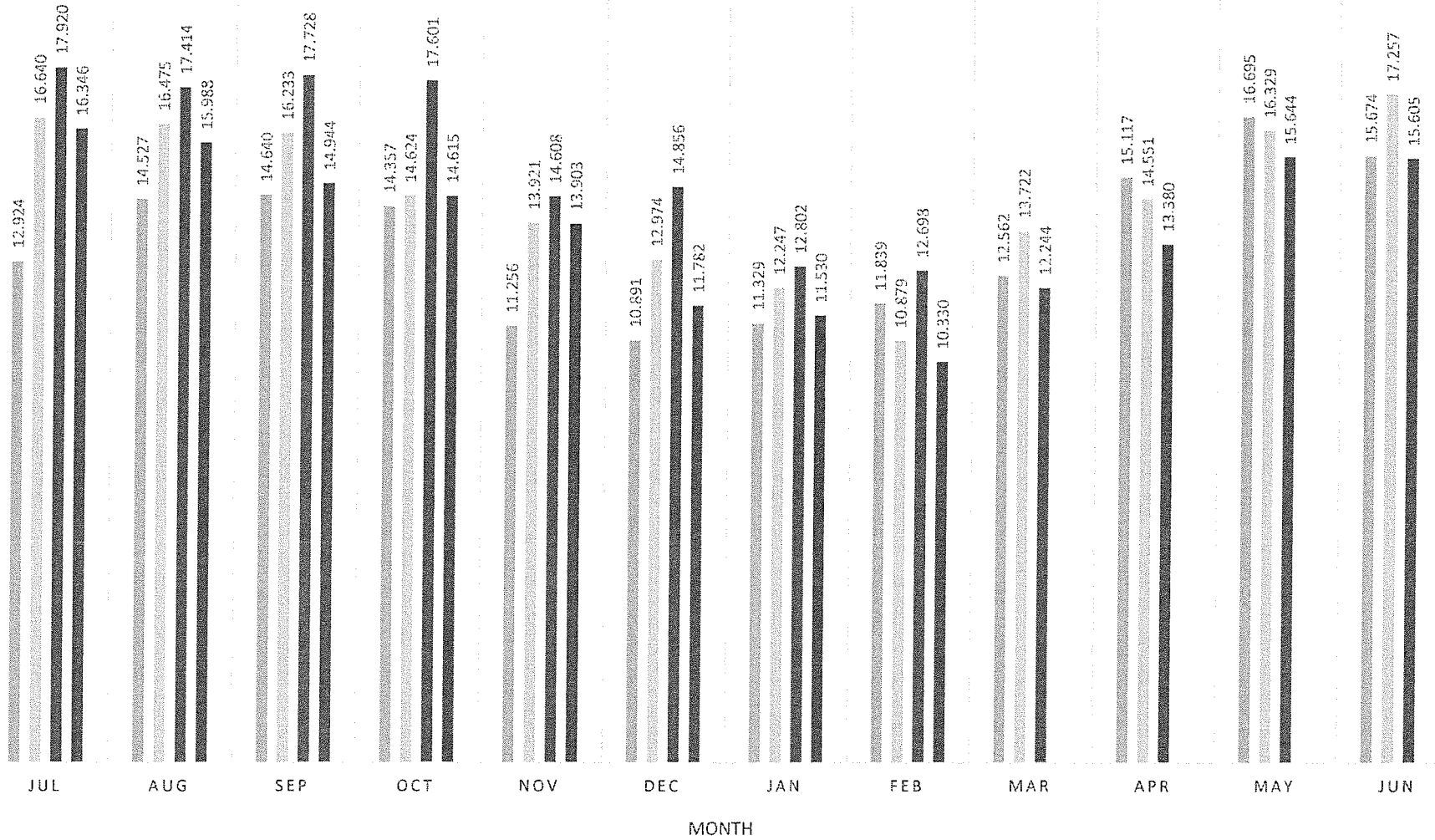
Water Production Data in Million Gallons				
	FY 15-16	FY 16-17	FY 17-18	FY 18-19
Jul	12.924	16.640	17.920	16.346
Aug	14.527	16.475	17.414	15.988
Sep	14.640	16.233	17.728	14.944
Oct	14.357	14.624	17.601	14.615
Nov	11.256	13.921	14.608	13.903
Dec	10.891	12.974	14.856	11.782
Jan	11.329	12.247	12.802	11.530
Feb	11.839	10.879	12.698	10.330
Mar	12.562	13.722	12.244	
Apr	15.117	14.551	13.380	
May	16.695	16.329	15.644	
Jun	15.674	17.257	15.605	
TOTAL	161.807	175.852	182.500	109.437

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 WELL PRODUCTION DATA

FY2015-2016
 FY2016-2017
 FY2017-2018
 FY2018-2019

MILLION GALLONS (MG)



LOCSD Water Data

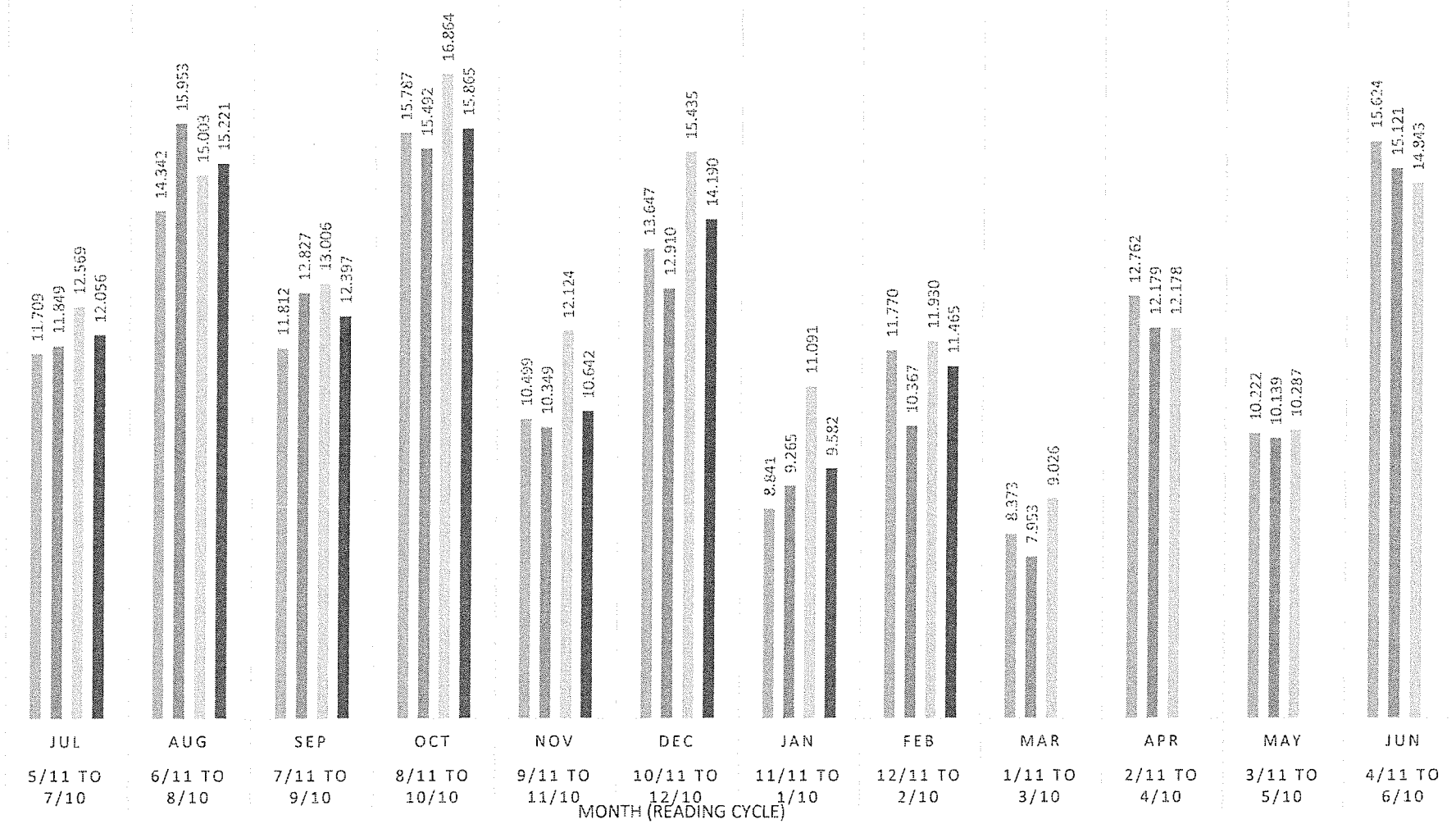
Water Consumption Data in Million Gallons						
% of Service Area	Billing Period		FY 15-16	FY 16-17	FY 17-18	FY 18-19
43	5/11 to 7/10	Jul	11.709	11.849	12.569	12.056
57	6/11 to 8/10	Aug	14.342	15.953	15.003	15.221
43	7/11 to 9/10	Sep	11.812	12.827	13.006	12.397
57	8/11 to 10/10	Oct	15.787	15.492	16.864	15.865
43	9/11 to 11/10	Nov	10.499	10.349	12.124	10.642
57	10/11 to 12/10	Dec	13.647	12.910	15.435	14.190
43	11/11 to 1/10	Jan	8.841	9.265	11.091	9.582
57	12/11 to 2/10	Feb	11.770	10.367	11.930	11.465
43	1/11 to 3/10	Mar	8.373	7.953	9.026	
57	2/11 to 4/10	Apr	12.762	12.179	12.178	
43	3/11 to 5/10	May	10.222	10.139	10.287	
57	4/11 to 6/10	Jun	15.624	15.121	14.843	
TOTAL			145.388	144.405	154.356	101.418

Consumption is billed for a two month period every month.
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 Production is recorded daily.

HISTORICAL TO PRESENT LOCS D WATER CONSUMPTION BASED ON BILLING

FY 15-16
 FY 16-17
 FY 17-18
 FY 18-19

MILLION GALLONS (MG)



LOCSD Water Data

Water Revenue Data						
% of Service Area	Billing Period		FY 15-16	FY 16-17	FY 17-18	FY 18-19
43	5/11 to 7/10	Jul	\$119,138.01	\$139,017.75	\$168,526.79	\$200,234.85
57	6/11 to 8/10	Aug	\$154,995.56	\$197,721.40	\$221,879.21	\$261,142.75
43	7/11 to 9/10	Sep	\$135,669.34	\$163,852.81	\$207,172.18	\$221,325.52
57	8/11 to 10/10	Oct	\$178,030.01	\$198,170.30	\$267,370.81	\$282,789.11
43	9/11 to 11/10	Nov	\$123,221.32	\$138,130.97	\$197,358.26	\$199,290.08
57	10/11 to 12/10	Dec	\$158,798.89	\$171,281.05	\$249,409.17	\$260,495.65
43	11/11 to 1/10	Jan	\$108,532.26	\$128,300.48	\$182,543.66	\$195,335.09
57	12/11 to 2/10	Feb	\$142,733.88	\$149,015.80	\$206,709.09	\$224,826.24
43	1/11 to 3/10	Mar	\$106,198.53	\$116,824.26	\$159,040.50	
57	2/11 to 4/10	Apr	\$151,554.05	\$165,317.00	\$208,966.41	
43	3/11 to 5/10	May	\$120,748.17	\$135,978.00	\$173,254.24	
57	4/11 to 6/10	Jun	\$178,943.85	\$193,625.41	\$241,491.17	
		TOTAL	\$1,678,563.87	\$1,897,235.23	\$2,483,721.49	\$1,845,439.29

Consumption is billed for a two month period every month.
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 Production is recorded daily.

U. S. DOLLARS \$

HISTORICAL TO PRESENT LOCSD WATER REVENUE BASED ON BILLING

