



January 29, 2019

TO: LOCSD 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 – 2/7/2019 Board Meeting**
 Utilities Department Report for **December 2018**

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WATER PRODUCTION INFORMATION

The total production for the month of **December 2018** was approximately **11.8 million gallons (MG)** this equates to an average daily demand of **380,100** gallons. This represents a **decrease** in production from last year by approximately **20.69%**.

Using the state's formula to calculate residential usage per capita per day, for the month of **December 2018** our residential customers used 50.8 gallons per person per day, a decrease from 64.1 gallons per person per day in December 2017.

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 **December 2018**. Totals for last year are included for comparison:

Production (MG) December	2018	2017	% Change
Palisades	1.84	2.65	10.64
3 rd Street/Bayside	0	0	0%
8 th Street/El Moro	4.08	5.19	-14.2%
10 th Street	3.32	4.21	4.5%
South Bay (lower)	2.05	2.09	-12.8%
South Bay (upper)	0.49	0.72	-14.8%
TOTAL:	11.78	14.86	

Runtime (Hours) December	2018	2017
Palisades	91.7	128.0
3 rd Street/Bayside	0.9	0.7
8 th Street/El Moro	204.4	242.4
10 th Street	187.6	235.6
South Bay (lower)	721.1	729.5
South Bay (upper)	290.9	321.7
TOTAL:	1496.6	1657.9

WATER BILLING INFORMATION

Fifty-seven percent of the service area received bills for approximately **14.19 MG** consumption for the period October 9, 2018, through December 12, 2018. This generated approximately **\$260,495.65** in revenue.

UTILITIES DEPARTMENT OPERATIONS AND MAINTENANCE

During the month of December 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.
- Conducted facilities tour for Cuesta College Water Distribution class.
- Trouble shot and completed repairs/adjustments for ion exchange facility.
- Collected and submitted sampling for Bayridge collection facility.
- Continued residential meter replacement program, 72 changed out.
- Performed service line repairs at 1888 19th Street and 1042 Nipomo Avenue.
- Responded to callout for overflow at 10th Street reservoir. Troubleshot and made repairs to Cla-Val valve.

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.losososcsd.org/drainage-e293b4b>

- Completed installation of pump and upgrades at 16th Street Drainage facility.
- Contractor completed installation of new control panels at Don and Mitchell and Bayridge drainage facilities.
- Performed generator and pump tests at Don and Mitchell drainage facility.

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
2018-2019	0.79	0.00	0.00	0.00	0.00	0.00	0.43	3.75	1.14				6.11
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

December 2018	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	4.0813	0.0000	3.3173	2.0543	0.4899	1.8391	11.7819	14.8563	-20.69%
Average Daily Flow, Mgal							0.3801	0.4792	
Total Gallons to Waste (Filter Backwash), Mgal	0.0000			0.0700	0.0000		0.0700	0.361	
Total Gallons to Waste (System Flushing), Mgal							0.0000	0	
Distribution System Losses (Water Line Breaks), Mgal							0.0000	0	
Total Gallons Adjusted, Mgal	4.0813			1.9843			11.7119	14.8202	-20.97%
Pump Runtime, total hours	204.4	0.9	187.6	721.1	290.9	91.7	1496.6	1657.9	-9.73%
Daily Avg. Runtime, hours/day	6.6	0.0	6.1	23.3	9.4	3.0			
Energy Used, kWatts	8178	40	8552	10643		3374	30787	35485	-13.24%
Eff. Ratio, kWatts/hr	40.01	44.44	45.59	14.76		36.79			
Chlorine Used, total gallons	56.9	0.0	18.9	22.8		13.2	111.8	144.2	-22.50%
Aqua Mag, pounds	46.0		27.2	0.0		11.2	84.4	83	1.69%
Static water level, ft.	32.20	3.90	150.10	112.80	91.80	90.30			
Pump water level, ft.	144.50	OUT OF SERV	247.60	178.00	117.10	182.70			
Draw-down level, ft.	112.30	OUT OF SERV	97.50	65.20	25.30	92.40			
Gallons per minute	336	OUT OF SERV	320	32	32	330			
Pressure, psi	99	0	N/A	62	61	61			

LOCSD Water Data

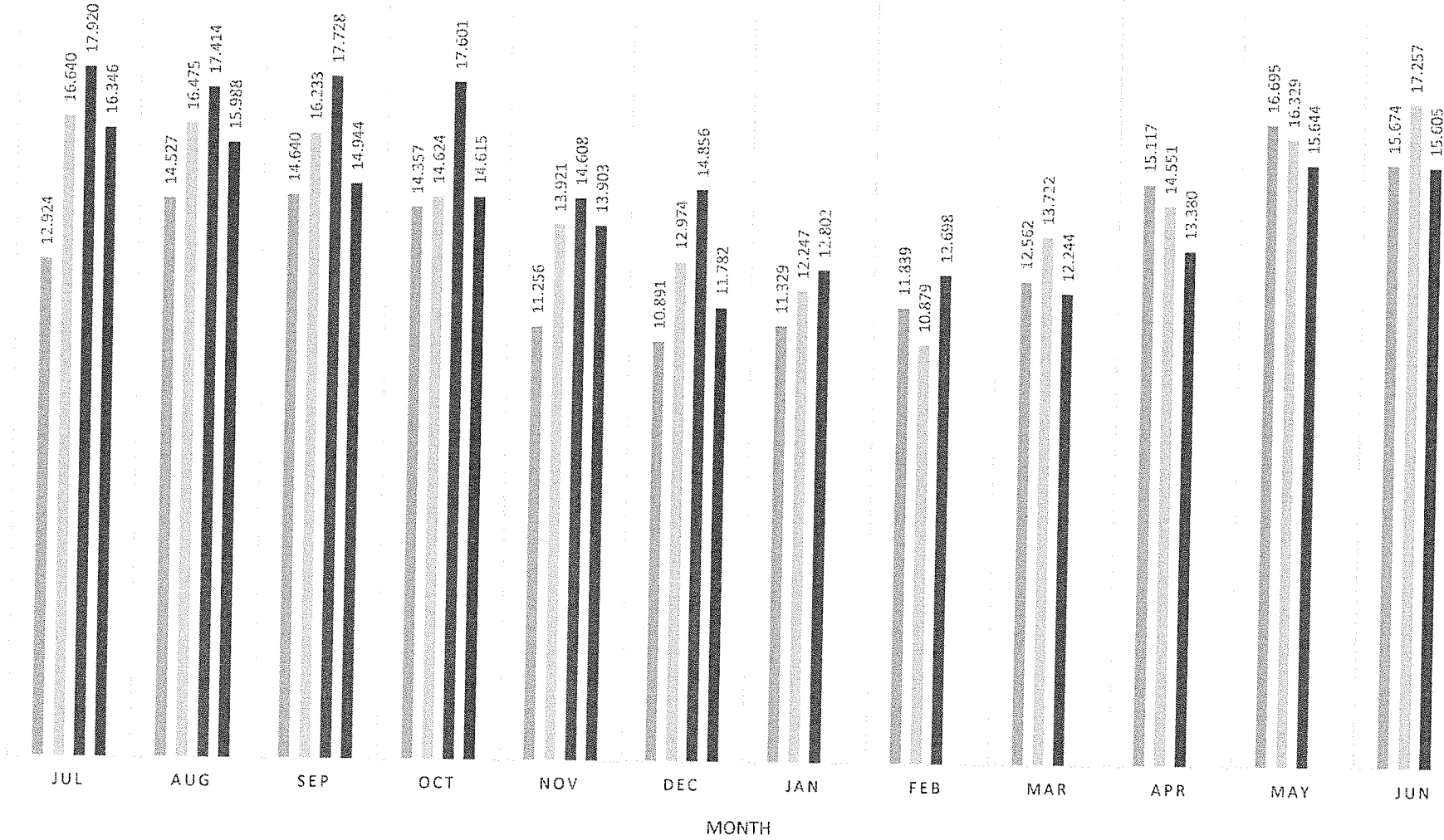
Water Production Data in Million Gallons				
	FY 15-16	FY 16-17	FY 17-18	FY 18-19
Jul	12.924	16.640	17.920	16.346
Aug	14.527	16.475	17.414	15.988
Sep	14.640	16.233	17.728	14.944
Oct	14.357	14.624	17.601	14.615
Nov	11.256	13.921	14.608	13.903
Dec	10.891	12.974	14.856	11.782
Jan	11.329	12.247	12.802	
Feb	11.839	10.879	12.698	
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	87.577

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

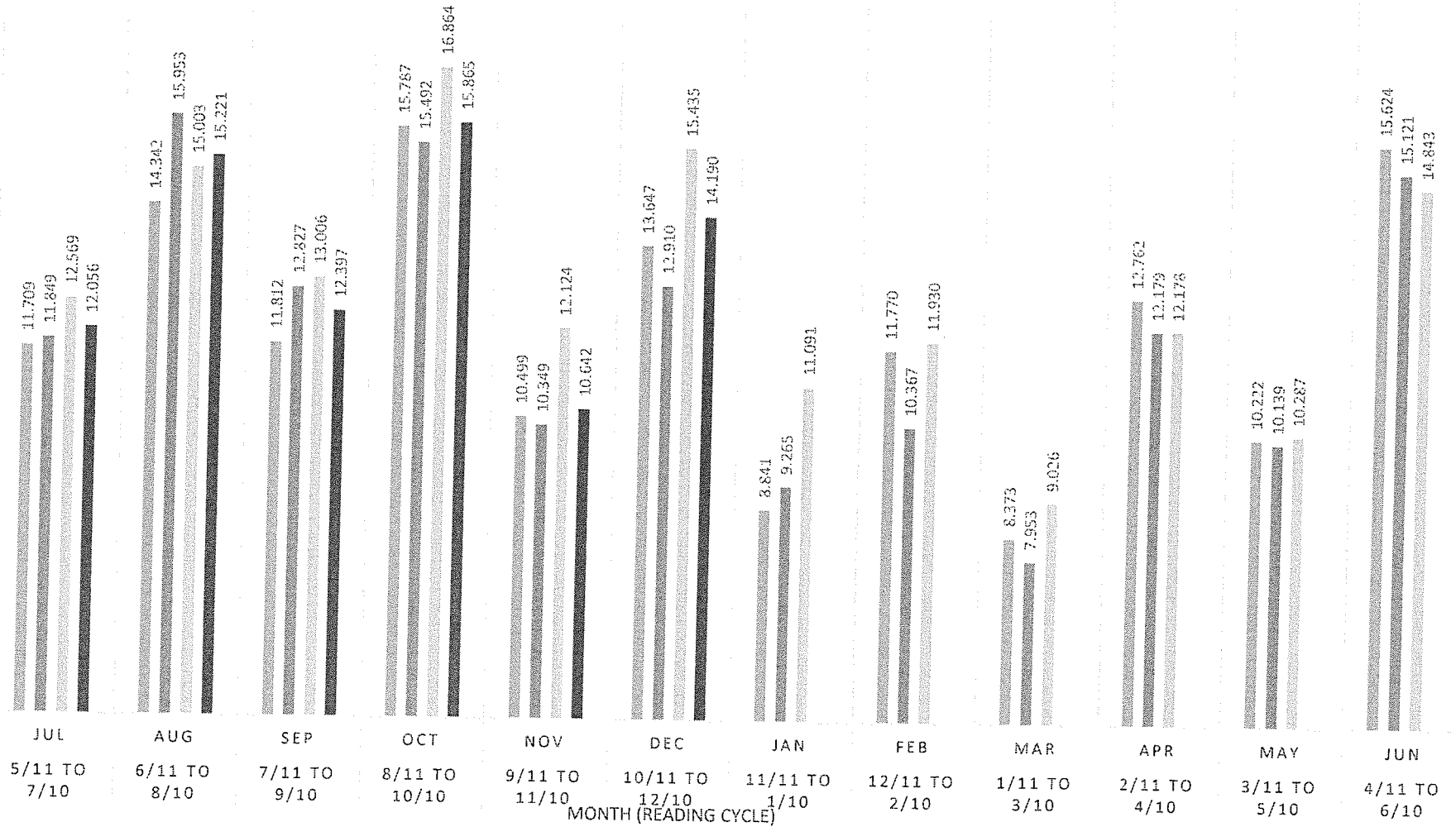
Water Consumption Data in Million Gallons						
% of Service Area	Billing Period		FY 15-16	FY 16-17	FY 17-18	FY 18-19
43	5/11 to 7/10	Jul	11.709	11.849	12.569	12.056
57	6/11 to 8/10	Aug	14.342	15.953	15.003	15.221
43	7/11 to 9/10	Sep	11.812	12.827	13.006	12.397
57	8/11 to 10/10	Oct	15.787	15.492	16.864	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	
57	12/11 to 2/10	Feb	11.770	10.367	11.930	
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	80.371

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

HISTORICAL TO PRESENT LOCSO WATER CONSUMPTION BASED ON BILLING

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

MILLION GALLONS (MG)



LOCSO Water Data

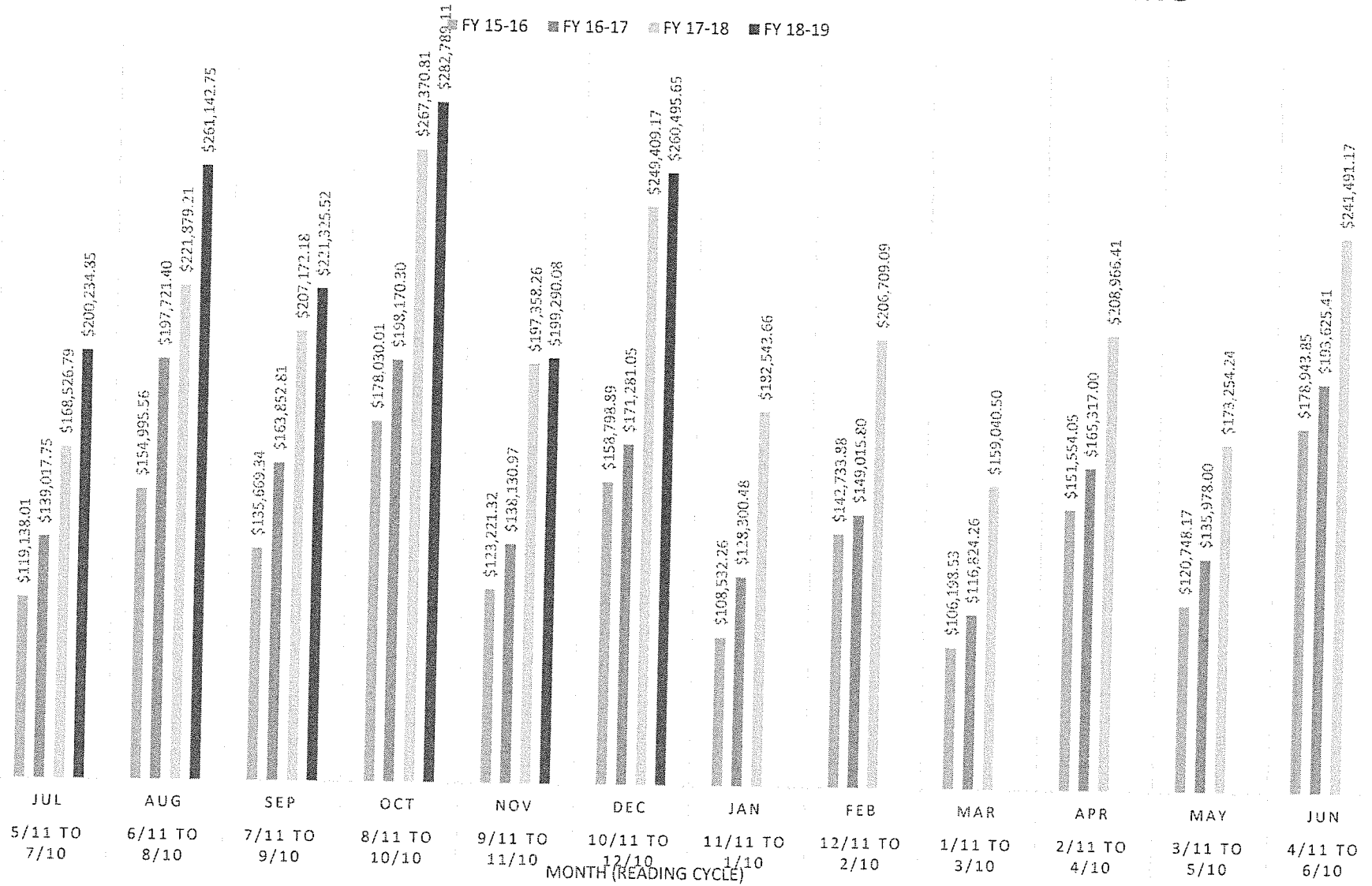
Water Revenue Data

% 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	
57	12/11 to 2/10	Feb	\$142,733.88	\$149,015.80	\$206,709.09	
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	\$1,425,277.96

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 Production is recorded daily.

U. S. DOLLARS \$

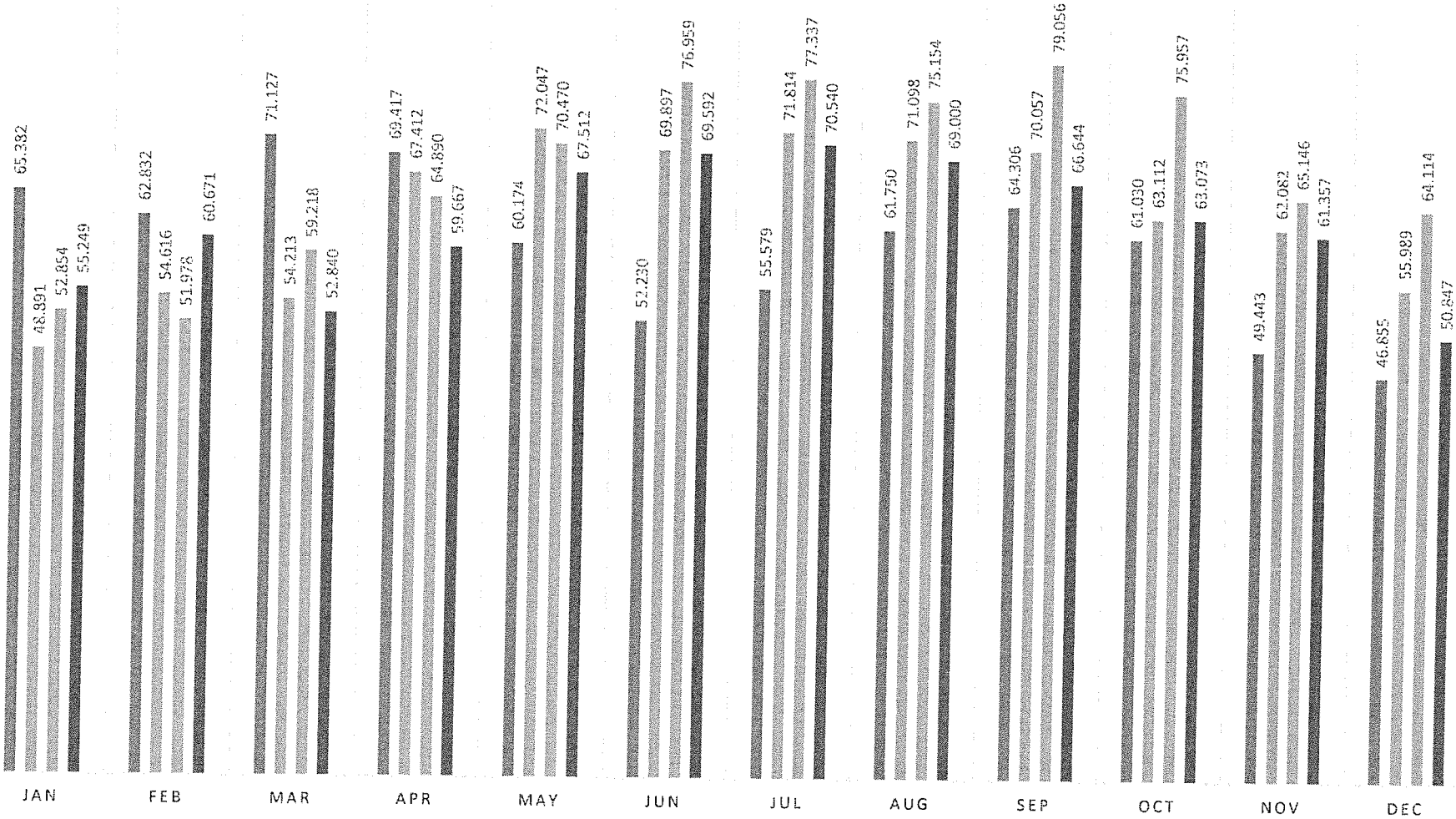
HISTORICAL TO PRESENT LOCSO WATER REVENUE BASED ON BILLING



2015 TO PRESENT LOCSO RESIDENTIAL CONSUMPTION GPCD

■ 2015 ■ 2016 ■ 2017 ■ 2018

GALLONS PER CAPITA PER DAY



MONTH