



May 21, 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 – 6/6/2019 Board Meeting**
 Utilities Department Report for **April 2019**

President
 Marshall E. Ochylski

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 Charles L. Cesena

Directors
 Matthew D. Fourcroy
 Vicki L. Milledge
 Christine M. Womack

General Manager
 Renee Osborne

District Accountant
 Robert Stilts, CPA

Unit Chief
 Scott M. Jalbert

Battalion Chief
 Greg Alex

Mailing Address:
 P.O. Box 6064
 Los Osos, CA 93412

Offices:
 2122 9th Street, Suite 102
 Los Osos, CA 93402

Phone: 805/528-9370
FAX: 805/528-9377

www.losososcsd.org

WATER PRODUCTION INFORMATION

The total production for the month of **April 2019** was approximately **14.2 million gallons (MG)** this equates to an average daily demand of **473,800** gallons. This represents an **increase** in production from last year by approximately **6.24%**.

Using the state's formula to calculate residential usage per capita per day, for the month of **April 2019** our residential customers used 62.4 gallons per person per day, an increase from 59.7 gallons per person per day in April 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 **April 2019**. Totals for last year are included for comparison:

Production (MG) April	2019	2018	% Change
Palisades	1.60	2.50	-36.0
3 rd Street/Bayside	0	0	0%
8 th Street/El Moro	6.94	4.38	58.4%
10 th Street	5.51	3.70	48.9%
South Bay (lower)	0.00	2.00	N/A
South Bay (upper)	0.17	0.80	-78.8%
TOTAL:	14.22	13.38	

Runtime (Hours) April	2019	2018
Palisades	76.2	120.1
3 rd Street/Bayside	0.1	0.3
8 th Street/El Moro	342.8	203.8
10 th Street	317.4	202.9
South Bay (lower)	0.0	702.1
South Bay (upper)	104.1	358.6
TOTAL:	840.5	1587.8

WATER BILLING INFORMATION

Fifty-seven percent of the service area received bills for approximately **10.53 MG** consumption for the period February 11, 2018 through April 9, 2019. This generated approximately **\$214,147.45** in revenue.

UTILITIES DEPARTMENT OPERATIONS AND MAINTENANCE

During the month of April 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.
- Continue valve exercising program, freeing up 3 valves, previously considered stuck.
- Grounds keeping at all well sites and around fire hydrants.
- Service line upgrade at 1391 4th Street.
- Continued residential meter replacement program, 92 changed out.
- Staff attended training classes for valve operation and maintenance and exam preparations.

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 greenspace and Loma lot.
- Constructed awnings for electrical panels at 8th Street and El Moro and Don and Mitchell sites.

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		
2019-2020	0.08														
2018-2019	0.79	0.00	0.00	0.00	0.00	0.00	0.43	3.75	1.14	6.14	6.90	3.94	23.09		
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

APRIL 2019	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	6.9380	0.0000	5.5086	0.0000	0.1698	1.5980	14.2144	13.3795	6.24%
Average Daily Flow, Mgal							0.4738		
Total Gallons to Waste (Filter Backwash), Mgal	0.0350			0.0000	0.0000		0.0350	0.1400	
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	6.9030			0.0000			14.1794	13.2395	7.10%
Pump Runtime, total hours	342.8	0.1	317.4	0.0	104.1	76.2	840.6	1587.7	-47.05%
Daily Avg. Runtime, hours/day	11.4	0.0	10.6	0.0	3.5	2.5			
Energy Used, kWatts	13525	34	12843	675		2852	29929	32458	-7.79%
Eff. Ratio, kWatts/hr	39.45	340.00	40.46	0.00		0.00			
Chlorine Used, total gallons	89.5	0.0	34.3	2.5		11.0	137.3	129.7	5.87%
Aqua Mag, pounds	90.0		50.8	0.0		12.8	153.6	70.7	117.26%
Static water level, ft.	36.20	4.20	152.70	103.40	87.90	105.80			
Pump water level, ft.	145.60	OF	246.30	0.00	0.00	175.20			
Draw-down level, ft.	109.40	#VALUE!	93.60	-103.40	-87.90	69.40			
Gallons per minute	345	SERVICE	332	0	0	264			
Pressure, psi	96	0	38	0	0	40			

Well Log Summaries

LOCSD Water Data

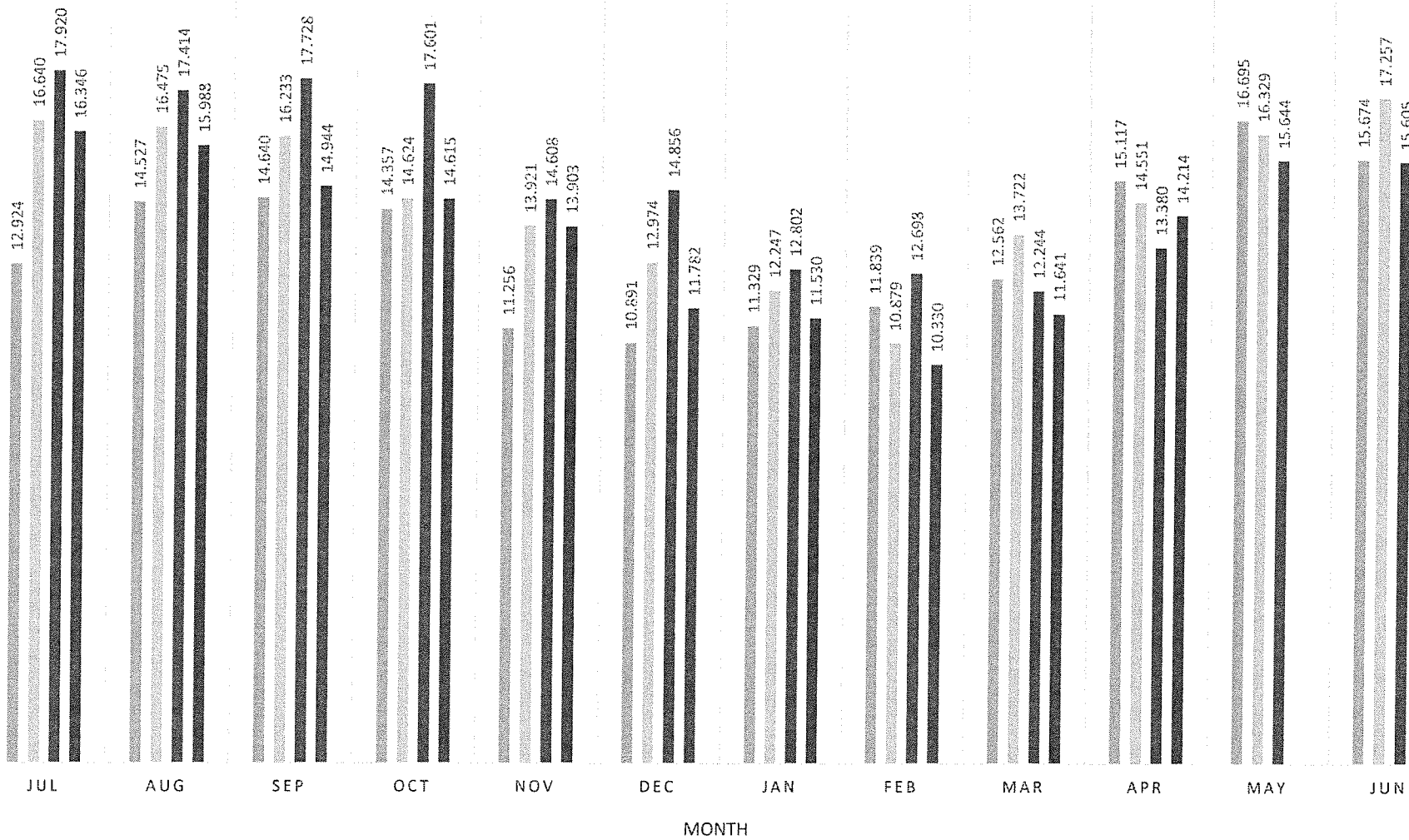
Water Production Data in Million Gallons				
	FY 15-16	FY 16-17	FY 17-18	FY 18-19
Jul	12.924	16.640	17.920	16.346
Aug	14.527	16.475	17.414	15.988
Sep	14.640	16.233	17.728	14.944
Oct	14.357	14.624	17.601	14.615
Nov	11.256	13.921	14.608	13.903
Dec	10.891	12.974	14.856	11.782
Jan	11.329	12.247	12.802	11.530
Feb	11.839	10.879	12.698	10.330
Mar	12.562	13.722	12.244	11.641
Apr	15.117	14.551	13.380	14.214
May	16.695	16.329	15.644	
Jun	15.674	17.257	15.605	
TOTAL	161.807	175.852	182.500	135.293

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

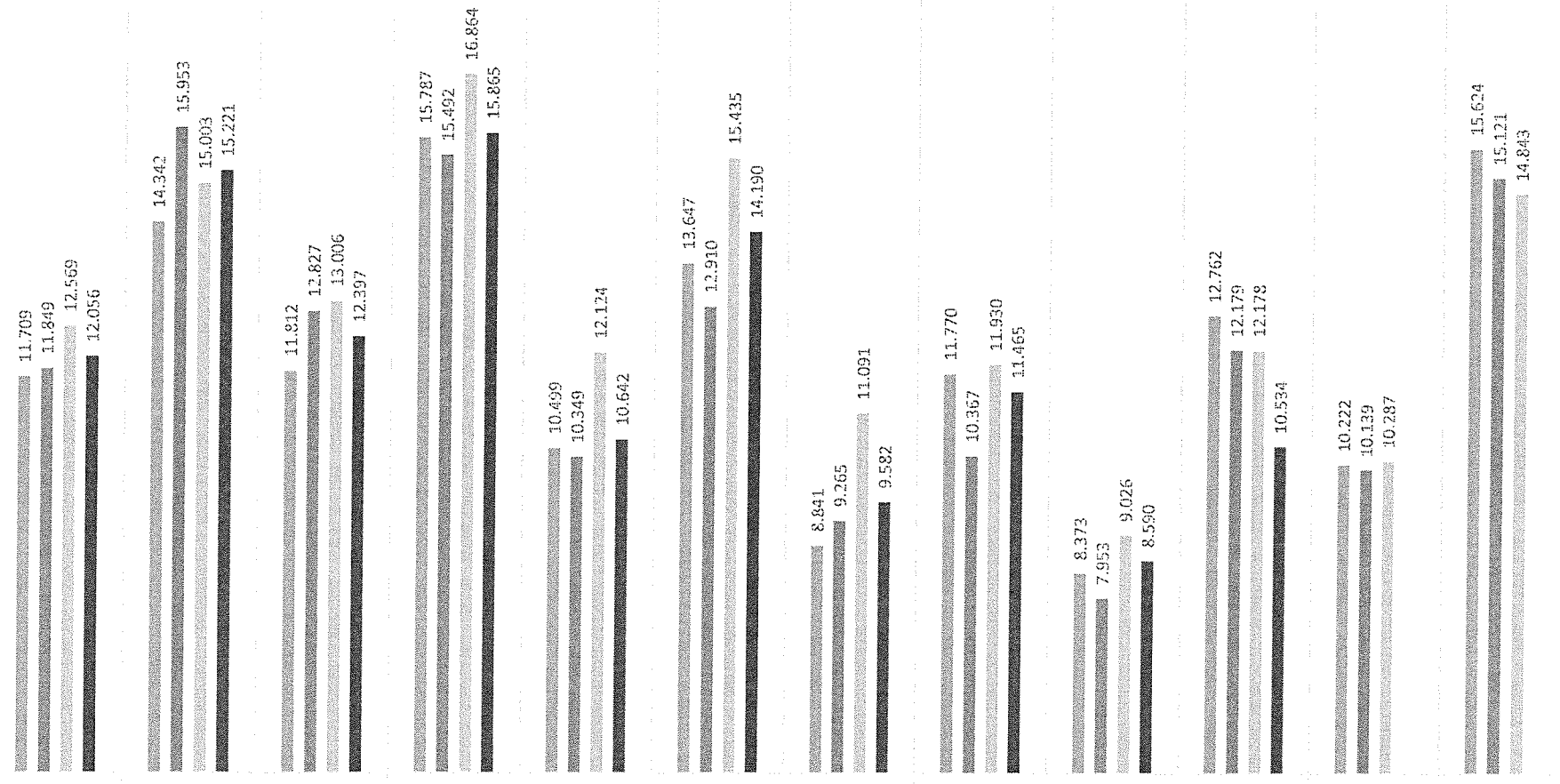
Water Consumption Data in Million Gallons						
% of Service Area	Billing Period		FY 15-16	FY 16-17	FY 17-18	FY 18-19
43	5/11 to 7/10	Jul	11.709	11.849	12.569	12.056
57	6/11 to 8/10	Aug	14.342	15.953	15.003	15.221
43	7/11 to 9/10	Sep	11.812	12.827	13.006	12.397
57	8/11 to 10/10	Oct	15.787	15.492	16.864	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	8.590
57	2/11 to 4/10	Apr	12.762	12.179	12.178	10.534
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	120.542

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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)



MONTH (READING CYCLE)

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	\$172,472.09
57	2/11 to 4/10	Apr	\$151,554.05	\$165,317.00	\$208,966.41	\$214,147.00
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	\$2,232,058.38

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

U. S. DOLLARS \$

HISTORICAL TO PRESENT LOCS D WATER REVENUE BASED ON BILLING

