

MEMORANDUM

TO: CITY COUNCIL

FROM: SHANE TAYLOR, UTILITIES MANAGER

SUBJECT: MONTHLY WATER SUPPLY AND DEMAND UPDATE

DATE: AUGUST 22, 2017

RECOMMENDATION:

It is recommended the City Council receive and file the monthly Water Supply and Demand Report.

SUMMARY OF ACTION:

This update reports the water supply and demand for July 2017. Current Lopez Reservoir level and projected levels are provided in the attachments.

IMPACT ON FINANCIAL AND PERSONNEL RESOURCES:

Approximately two (2) hours of staff time is required to prepare the monthly report.

BACKGROUND:

On April 25, 2017, the City Council, by resolution, rescinded the Stage 1 Water Shortage Emergency and related water conservation measures and restrictions. During the public hearing the City Council requested staff to continue preparing the monthly water supply and demand updates. The Council also urged citizens to remain cognizant of how they use water, and that the previously adopted water saving measures are still in effect.

In July, the City's water use was 25% below June 2013. There is currently no required reduction imposed by the State Water Resources Control Board. The City however, is still required to report monthly statistics to the State. As a comparison for a single month, water usage statistics were 15% higher in July 2017 than July 2016.

ANALYSIS OF ISSUES:

The United States Department of Agriculture (USDA) Drought Monitor, as of August 8, 2017 shows San Luis Obispo County as abnormally dry. Rainfall to date (July 1, 2017 to July 31, 2017) is 0 inches at the Corporation Yard gauge. Lopez Lake, as of August 11, 2017 is at 58% capacity (28,879 acre-feet of storage).

At the County of San Luis Obispo Board of Supervisors meeting on May 23, 2017, the Board rescinded the drought emergency proclamation. However, as recommended by

**CITY COUNCIL
MONTHLY WATER SUPPLY AND DEMAND UPDATE
AUGUST 22, 2017
PAGE 2**

the Zone 3 Advisory Board, the Board of Supervisors kept the Low Reservoir Response Plan in place. This will allow carryover water to be available until March 30, 2018 to all contractors. The new water year began on April 1, 2017 and the current total available supply from Lopez is 2,290 acre-feet, the City's normal entitlement, plus 1,249 acre-feet of carryover. In addition the City has 1,323 acre-feet of ground water entitlement from the Santa Maria Basin and 200 acre-feet from the Pismo Formation.

Based on the projected water use of 2,500 acre-feet, the City will meet the demand in water year 2017/18, using only 50% of current supply.

ADVANTAGES:

No advantages noted at this time.

DISADVANTAGES:

No disadvantages noted at this time.

ALTERNATIVES:

Not applicable at this time.

ENVIRONMENTAL REVIEW:

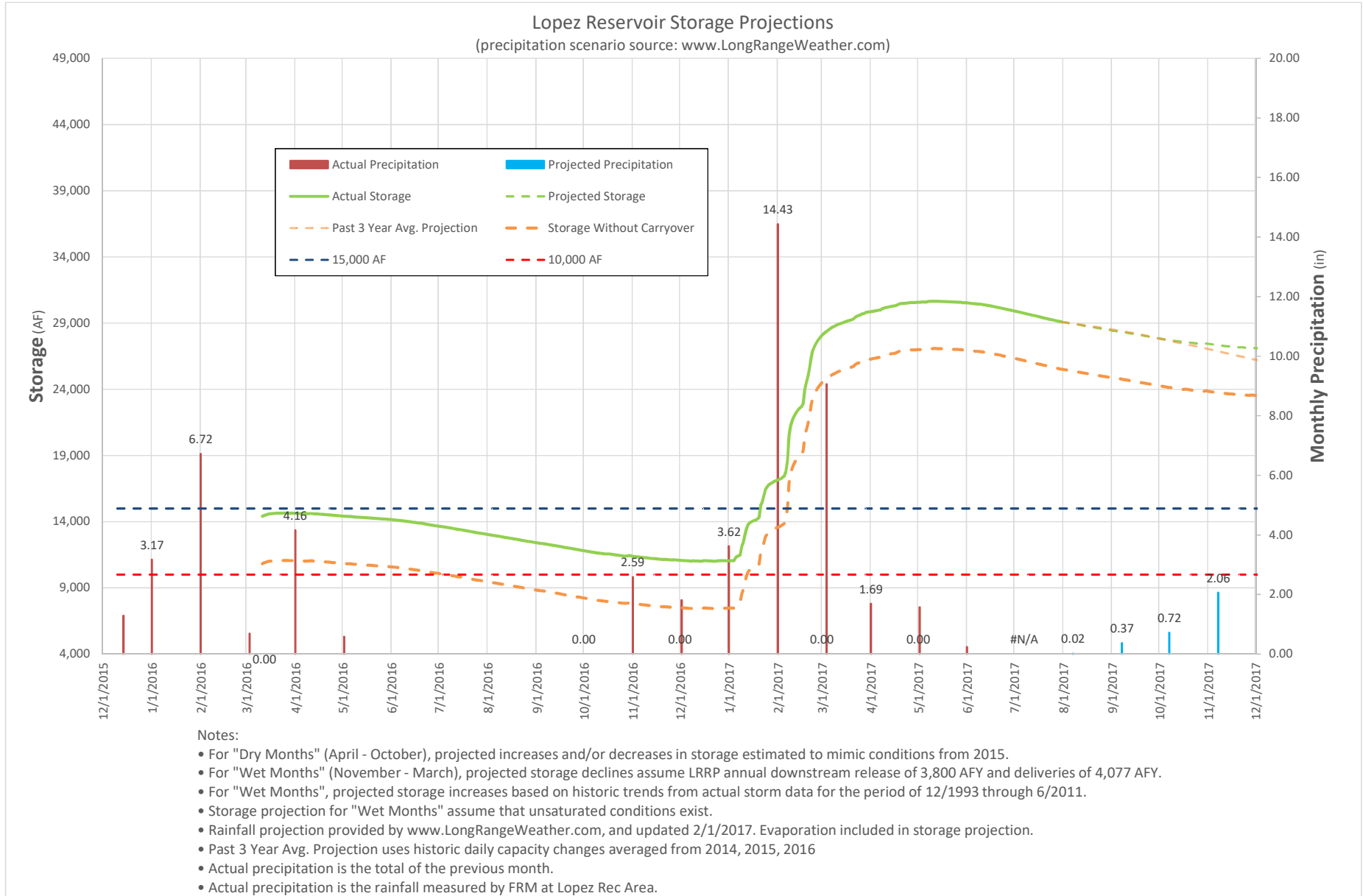
No environmental review is required for this item.

PUBLIC NOTIFICATION AND COMMENTS:

The Agenda was posted at City Hall and on the City's website in accordance with Government Code Section 54954.2.

Attachment:

1. Lopez Reservoir Storage Projections
2. Lopez Reservoir Storage Projections based on 16/17 Hydrology
3. LRRP Projection
4. Zone 3 – Lopez Project – Monthly Operations Report



Attachment 2

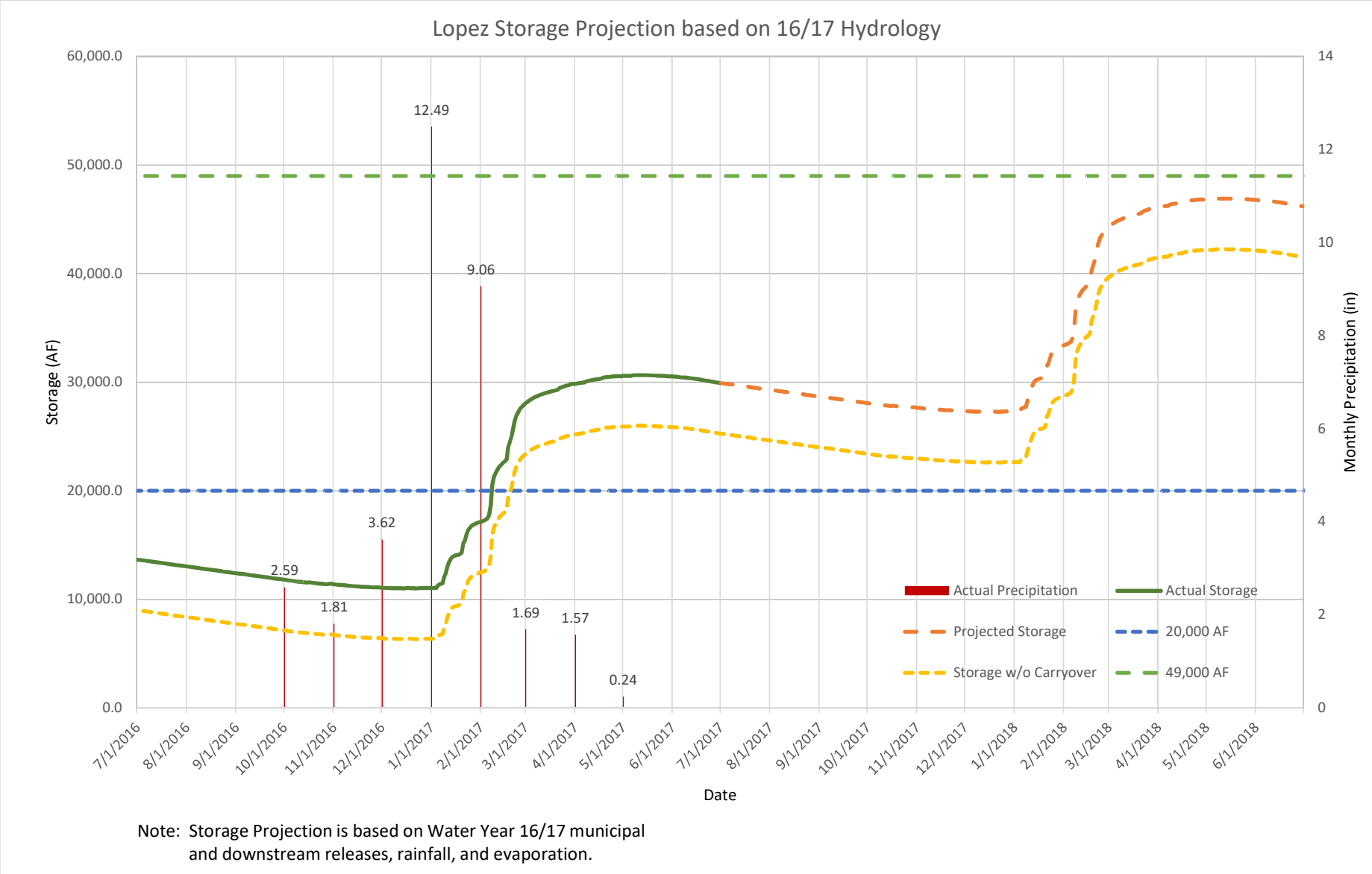
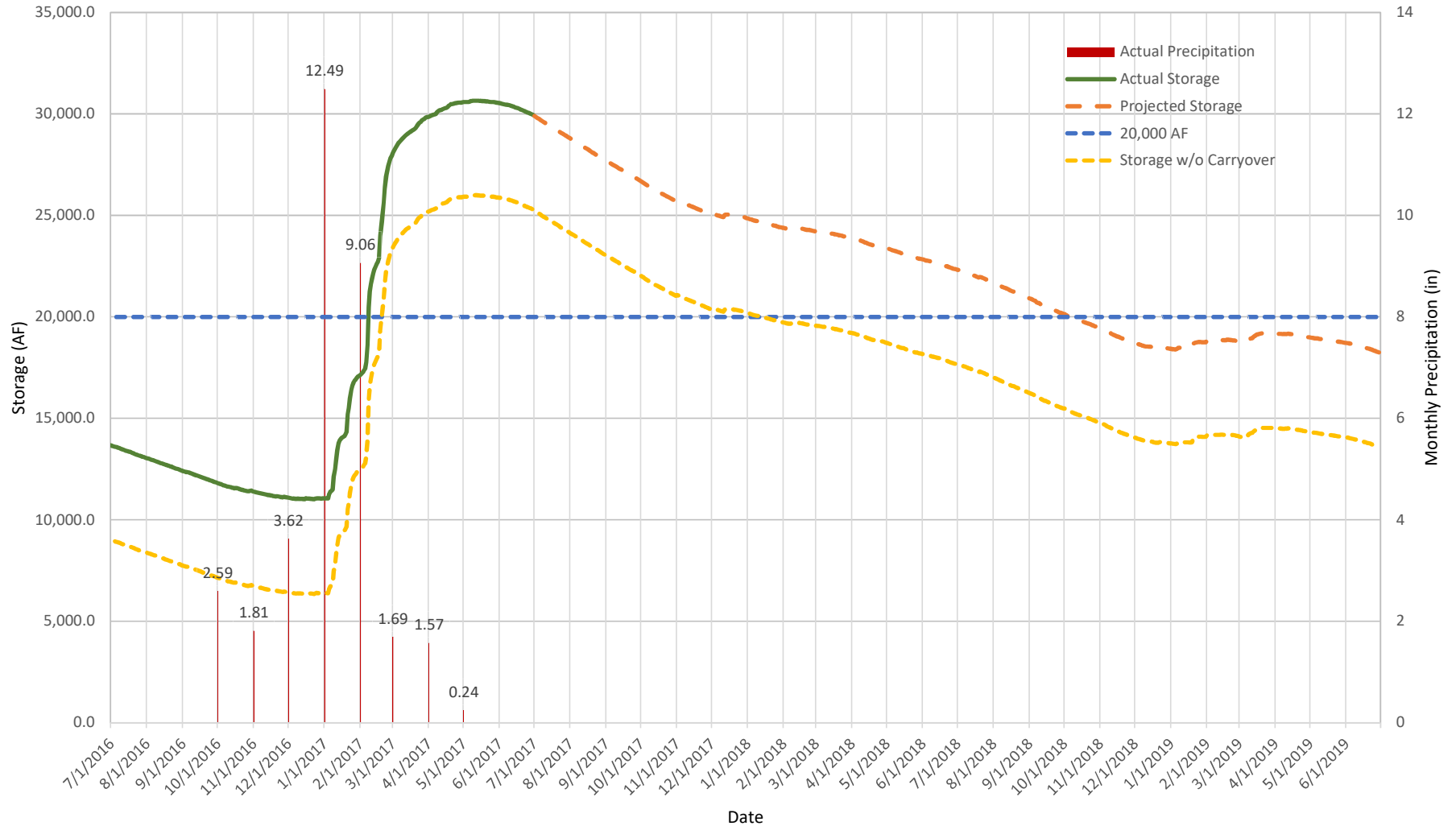


EXHIBIT C - LRRP Projection

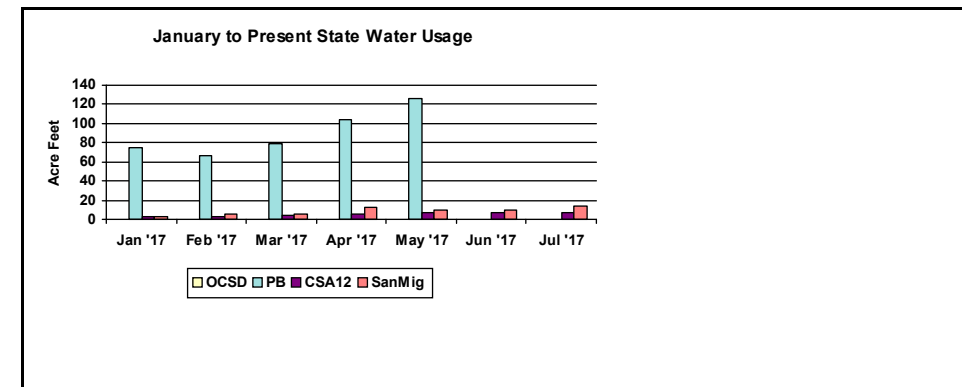
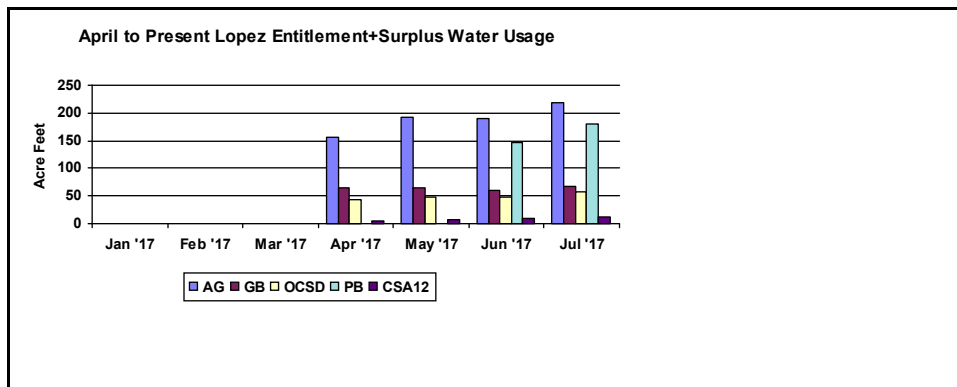


Note: Storage Projection is based on Water Years 14/15 and 15/16 municipal and downstream releases, rainfall, and evaporation.

San Luis Obispo County Flood Control and Water District
 Zone 3 - Lopez Project - Monthly Operations Report
 July, 2017

Attachment 4

Contractor	Lopez Water Deliveries											State Water Deliveries						Total Water Deliveries This Month					
	Entl.	Surplus	Total	This Month				April to Present				Annual Request	This Month			January to Present							
				Entitlement		Surplus		Entitlement		Surplus			Usage	% of Annual Request	SWP Deliveries	Change in Storage	Usage		% of Annual Request	SWP Deliveries			
				Usage	%	Usage	%	Usage	%	Usage	%												
Arroyo Grande	2290	1249.20	3539.20	219.87	9.6%	0.00	0.0%	758.31	33.1%	0.00	0.0%	758.31	21.4%									219.87	
Oceano CSD	303	840.50	1143.50	57.37	18.9%	0.00	0.0%	196.63	64.9%	0.00	0.0%	196.63	17.2%	0	0.00	0.0%							57.37
Grover Beach	800	240.20	1040.20	66.94	8.4%	0.00	0.0%	255.73	32.0%	0.00	0.0%	255.73	24.6%										66.94
Pismo Beach	896	1834.20	2730.20	180.06	20.1%	0.00	0.0%	326.68	36.5%	0.00	0.0%	326.68	12.0%	505	0.00	0.0%							180.06
CSA 12	241	499.60	740.60	12.45	5.2%	0.00	0.0%	33.32	13.8%	0.00	0.0%	33.32	4.5%	69.96	6.31	9.0%							18.76
San Miguelito														110	13.41	12.2%							13.41
Total	4530	4663.70	9193.70	536.69	11.8%	0.00	0.0%	1570.67	34.7%	0.00	0.0%	1570.67	17.1%	684.96	19.72	2.9%	145	125.28	545.38	79.6%	1002.00		556.41
											Last Month Stored State Water			813.08				This Month Stored State Water			942.55		



Note: Deliveries are in acre feet. One acre foot = 325, 850 gallons or 43, 560 cubic feet. Safe yield is 8,730 acre feet.

"Year to Date" is January to present for State water, April to present for Lopez deliveries, and July to present for rainfall.

Lopez Dam Operations	This Month	Year to Date		
Lake Elevation (full at 522.37 feet)	496.71		Difference (feet)	-25.66
Storage (full at 49200 acre feet)	29086		% Full	59.1%
Rainfall	0	0.00		
Downstream Release (4200 acre feet/year)	387.29	981.43		
Spillage (acre feet)	0	0.00		

Comments: Reservoir is currently operated under the Low Reservoir Response Plan. Reservoir is above 20,000 AF therefore no reduction in entitlements.

Surplus water shown is actually "Carry Over" water as designated in the LRRP and updated per BOS May 2, 2017 Declaration of Surplus.

1) Oceano supplied State Water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 2.58 AF delivered to Canyon Crest was added to Oceano's State Water usage this month and 2.58 AF was subtracted from Arroyo Grande's usage this month.