

MEMORANDUM

TO: CITY COUNCIL

FROM: BILL ROBESON, PUBLIC WORKS DIRECTOR

BY: SHANE TAYLOR, UTILITIES MANAGER

SUBJECT: MONTHLY WATER SUPPLY AND DEMAND UPDATE

DATE: MAY 26, 2020

SUMMARY OF ACTION:

This update reports the water supply and demand for April 2020. 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 report.

RECOMMENDATION:

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

BACKGROUND:

On April 25, 2017, the City Council, by resolution, rescinded the Stage 1 Water Shortage Emergency along with related emergency water conservation measures and restrictions.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 urged citizens to continue to practice every-day water saving measures and reiterated that the previously-adopted water saving measures were to remain in effect.

In April 2020, the City's water use was 155.7 acre-feet with a per capita use of 96 gallons per day/per person. There was a total of 1.77 inches of rainfall in April 2020. The water use for the current "rolling" water year from May 2019 to April 2020 was 2,201 acre-feet, which equates to a per capita use of 111 gallons per day/per person. There was a total of 16.12 inches of rain fall for this period.

ANALYSIS OF ISSUES:

The United States Drought Monitor, as of May 14, 2020, shows San Luis Obispo County as normal. Rainfall to date (July 1, 2019 to April 30, 2020) is 14.72 inches at the Corporation Yard rain gauge. Lopez Lake, as of May 13, 2020, is at 51.5% capacity (25,441 acre-feet of storage).

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The new water year began on April 1, 2020, and the current total available supply from Lopez is 2,290 acre-feet, our normal entitlement. In addition, we have 1,323 acre-feet of ground water entitlement from the Santa Maria Basin and 160 acre-feet from the Pismo Formation. In addition, there will also be 911 acre-feet of surplus water from Lopez available. The projected water use for 2020/21 is 2,300 acre-feet. In conclusion, based on average rainfall for the next two years, the current supply will meet the projected demand.

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:

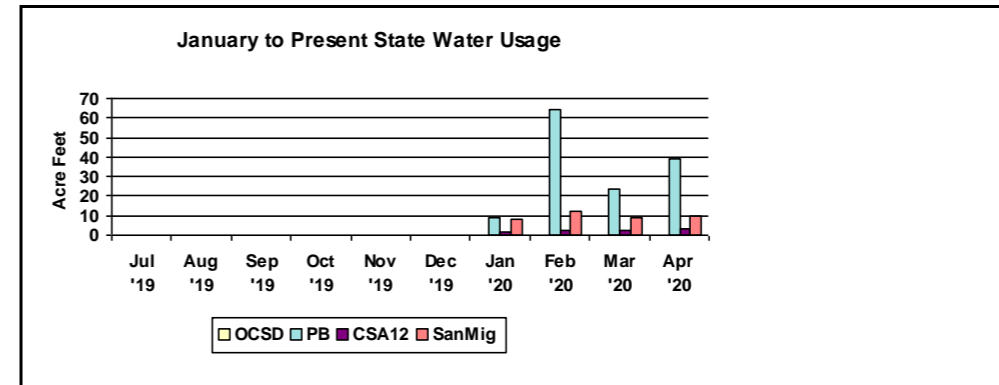
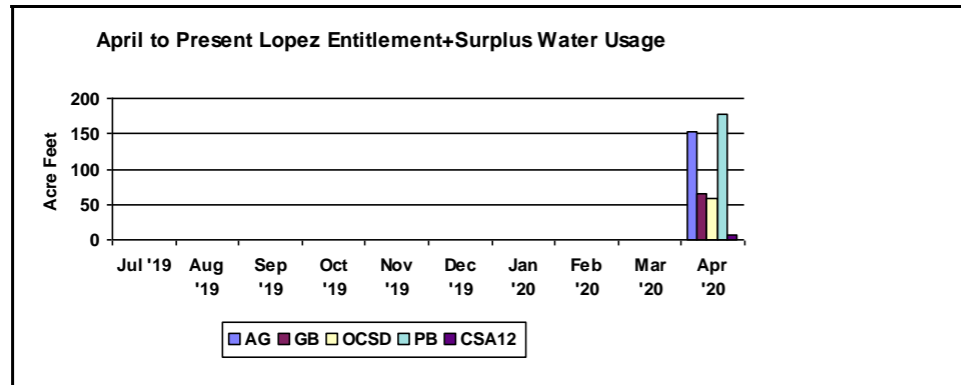
The Agenda was posted at City Hall and on the City's website in accordance with Government Code Section 54954.2.

Attachments:

1. Lopez Monthly Operations Report for April 2020
- 1a. Lopez Monthly Operations Report for March 2019
2. Lopez Reservoir Storage Projection
3. Monthly Water Use Comparison
4. Monitoring Report for April 2020

San Luis Obispo County Flood Control and Water District Zone 3 - Lopez Project - Monthly Operations Report April, 2020

Contractor	Lopez Water Deliveries										State Water Deliveries							Total Water Deliveries This Month							
	Entl.	Surplus Water Declared	Surplus Requested	Total Available Water	This Month				April to Present						Annual Request	This Month				January to Present					
					Entitlement		Surplus		Entitlement		Surplus		Total			Usage	% of Annual Request		SWP Deliveries	Change in Storage	Usage	% of Annual Request	SWP Deliveries		
					Usage	%	Usage	%	Usage	%	Usage	%	Usage	%											
Arroyo Grande	2290	911.00	0.00	2290.00	153.33	6.7%	0.00	0.0%	153.33	6.7%	0.00	0.0%	153.33	6.7%										153.33	
Oceano CSD	303	121.00	0.00	303.00	57.45	19.0%	0.00	0.0%	57.45	19.0%	0.00	0.0%	57.45	19.0%	227	0.00	0.0%					0.00	0.0%		57.45
Grover Beach	800	318.00	0.00	800.00	64.22	8.0%	0.00	0.0%	64.22	8.0%	0.00	0.0%	64.22	8.0%											64.22
Pismo Beach	892	355.00	0.00	892.00	177.83	19.9%	0.00	0.0%	177.83	19.9%	0.00	0.0%	177.83	19.9%	1120	39.00	3.5%					136.27	12.2%		216.83
CSA 12	245	98.00	0.00	245.00	6.63	2.7%	0.00	0.0%	6.63	2.7%	0.00	0.0%	6.63	2.7%	27	3.04	11.3%					8.96	33.2%		9.67
San Miguelito															127	9.73	7.7%					38.82	30.6%		9.73
Total	4530	1803.00	0.00	4530.00	459.46	10.1%	0.00	0.0%	459.46	10.1%	0.00	0.0%	459.46	10.1%	1501	51.77	3.4%	68	16.23			184.05	12.3%	274.00	511.23
													Last Month Stored State Water		1529.97			This Month Stored State Water		1546.20					



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)	491.25		Difference (feet)	-31.12
Storage (full at 49200 acre feet)	25696		% Full	52.2%
Rainfall	3.02	17.33		
Downstream Release (4200 acre feet/year)	208.68	208.68		
Spillage (acre feet)	0	0.00		

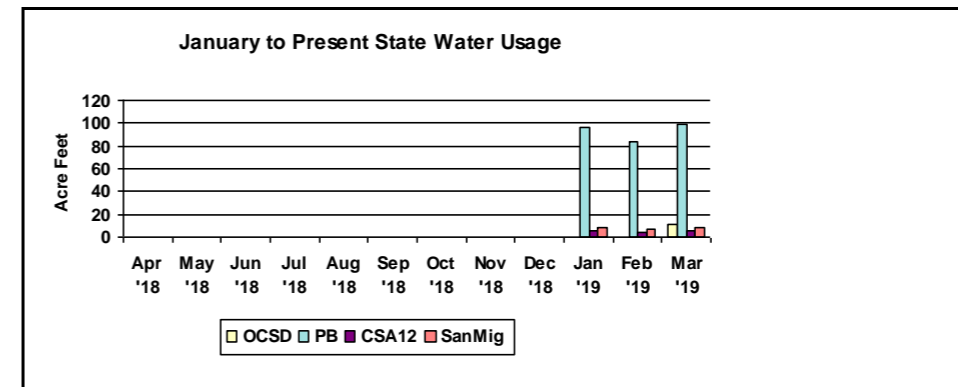
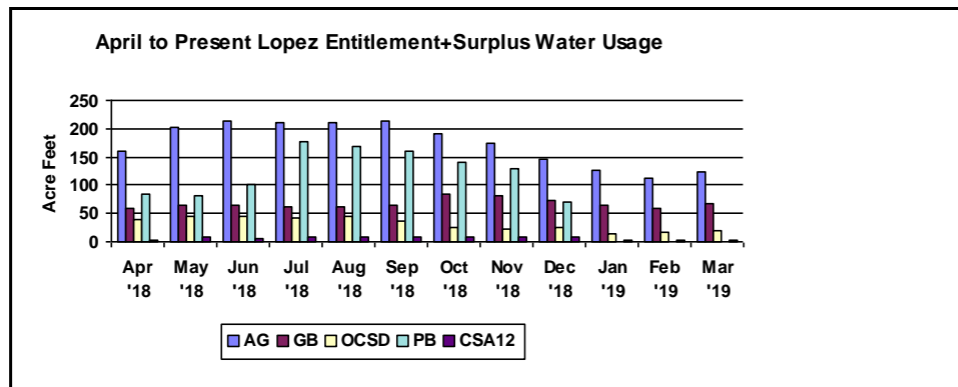
Comments:

- 1) Available Surplus Water shown is draft. Surplus Water will be Declared by the Board of Supervisors on June 2, 2020. Surplus Water Requested is still to be determined.
- 2) Oceano supplied water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 3.7 AF delivered to Canyon Crest was added to Oceano's water usage this month and 3.7 AF was subtracted from Arroyo Grande's usage this month.

San Luis Obispo County Flood Control and Water District
 Zone 3 - Lopez Project - Monthly Operations Report
 March, 2019

ATTACHMENT 1a

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			Total		Usage	% of Annual Request	SWP Deliveries		Change in Storage	Usage	% of Annual Request	SWP Deliveries		
				Usage	%	Usage	%	Usage	%	Usage	%		Usage	%										
Arroyo Grande	2290	564.00	2854.00	124.37	5.4%	0.00	0.0%	2084.03	91.0%	0.00	0.0%	2084.03	73.0%										124.37	
Oceano CSD	303	75.00	378.00	0.00	0.0%	19.62	26.2%	303.00	100.0%	75.00	100.0%	378.00	100.0%	227	10.98	4.8%				10.98	4.8%			30.6
Grover Beach	800	197.00	997.00	57.71	7.2%	9.04	4.6%	800.00	100.0%	9.04	4.6%	809.04	81.1%											66.75
Pismo Beach	892	220.00	1112.00	0.00	0.0%	0.00	0.0%	892.00	100.0%	220.00	100.0%	1112.00	100.0%	1120	98.50	8.8%				278.55	24.9%			98.5
CSA 12	245	60.00	305.00	2.80	1.1%	0.00	0.0%	74.13	30.3%	0.00	0.0%	74.13	24.3%	27	5.55	20.6%				15.78	58.4%			8.35
San Miguelito														127	7.77	6.1%				22.50	17.7%			7.77
Total	4530	1116.00	5646.00	184.88	4.1%	28.66	2.6%	4153.16	91.7%	304.04	27.2%	4457.20	78.9%	1501	122.80	8.2%	76	-46.80	327.81	21.8%	205.00			336.34
														Last Month Stored State Water		1311.51				This Month Stored State Water		1264.71		



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

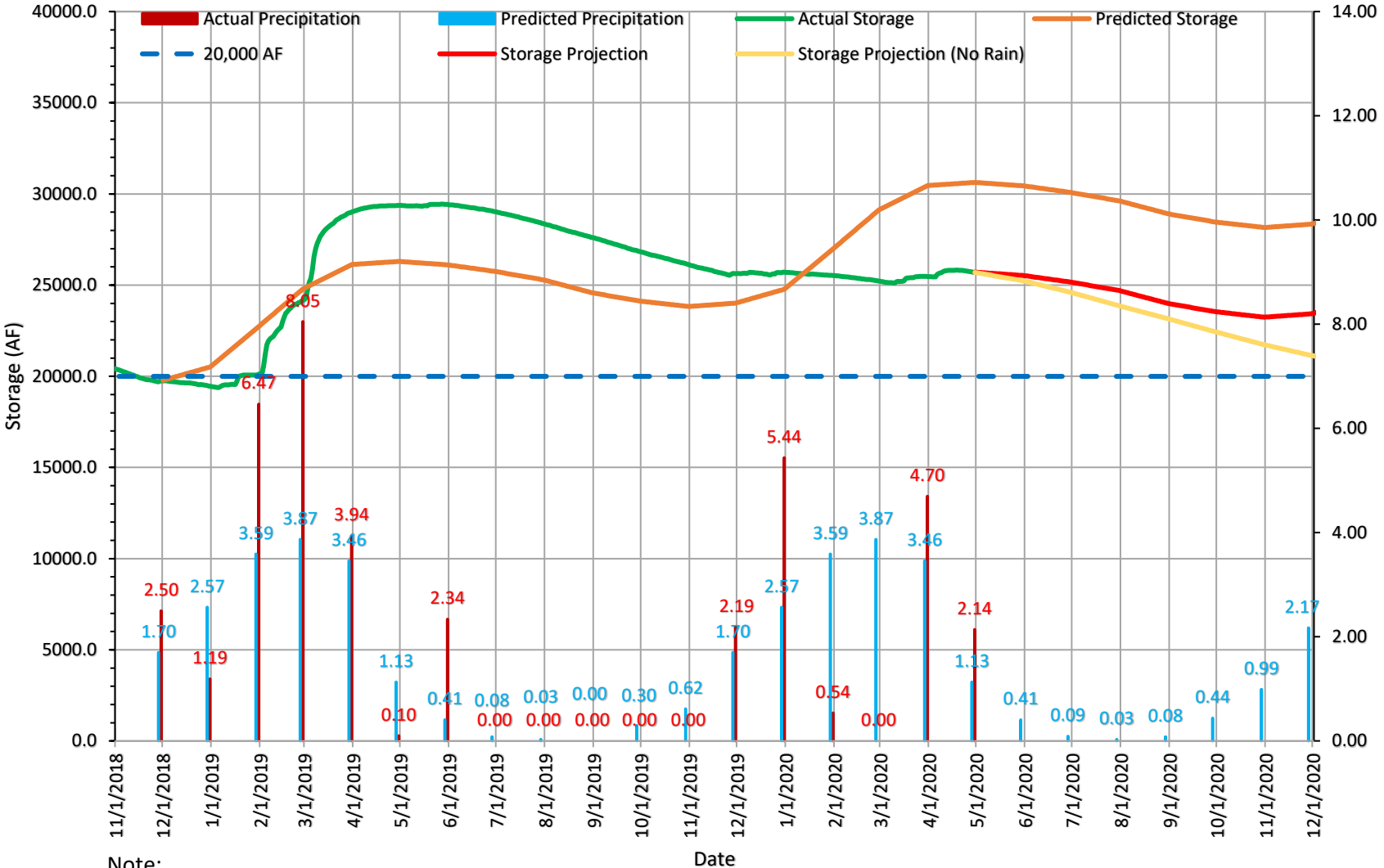
"Year to Date" is January to present for State water, April to present for Lopez deliveries, and July to present for rainfall.

Lopez Dam Operations	This Month	Year to Date		
Lake Elevation (full at 522.37 feet)	496.59		Difference (feet)	-25.78
Storage (full at 49200 acre feet)	29008		% Full	59.0%
Rainfall	5.19	26.11		
Downstream Release (4200 acre feet/year)	196.41	3830.12		
Spillage (acre feet)	0	0.00		

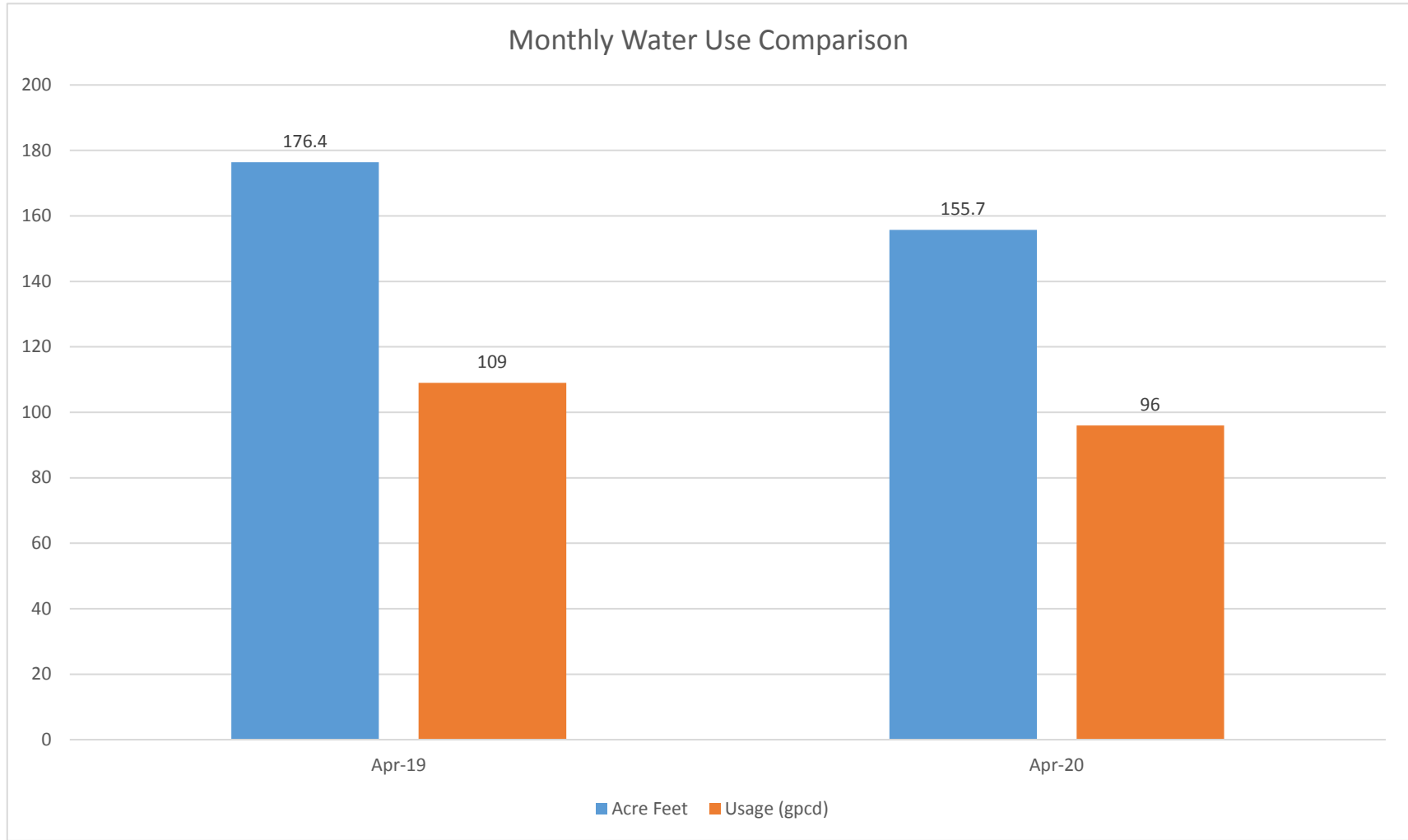
Comments: Surplus water shown is as designated per BOS May 15, 2018 Declaration of Surplus Water.

1) Oceano supplied State Water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 1.1 AF delivered to Canyon Crest was added to Oceano's State Water usage this month and 1.1 AF was subtracted from Arroyo Grande's usage this month.

LOPEZ RESERVOIR STORAGE PROJECTION



Note:
 1. Storage projection is based on predicted rainfall from longrangeweather.com, historic inflow based on predicted rainfall, 18-19 downstream release requests, and municipal usage.



From: SWRCB Office Research, Planning & Performance mailto:drinc@waterboards.ca.gov
Sent: Wednesday, May 13, 2020 1:27 PM
To: Shane Taylor staylor@arroyogrande.org
Subject: Monitoring Report Acknowledgement for April 2020

Hello shane taylor

Thank you for your Monitoring Report. Below is the information you have submitted for the month of April 2020. If this information is incorrect, you can edit the report or re-submit your report for the month with the corrected information. We use your most recently submitted monthly report in our calculations.

Reporter	shane taylor
Urban Water Supplier(Number)	Arroyo Grande City of (608)
Reporting Month	0420
Stage/Mandatory	0 Yes
Days Outside Irrigation	4
Total Potable Water Production	155.7 AF
2013 Same Month Production	266.6 AF
CII Water	31.1 AF
Commercial Agricultural Water	0 AF
Commercial Agricultural Water 2013	0 AF
Recycled Water	0 AF
Non-revenue Water	AF
Residential Use Percentage	80 %
Population	17636
Estimated R-GPCD	77
Number Complaints	0
Number Follow-ups	0
Number Warnings	0
Rate Penalties	0
Other Penalties	0
Enforcement Actions	
Actions Taken	
Implementation Comments	
Qualification	

To edit your report click [HERE](#) (After logging in, select the report to edit, click on “Edit”, make your corrections, and click on “Update” when finished)

State Water Resources Control Board Office of Research, Planning & Performance

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