



## ZONE 3 ADVISORY COMMITTEE

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San Luis Obispo County Flood Control and Water Conservation District

### AGENDA

Thursday, May 20, 2021 6:30 P.M.

**Due to COVID-19 Meeting Protocols**  
**we will hold the meeting via Goto Meeting or via Phone**

**Phone line:** +1 (872) 240-3412

**Access Code:** 931-623-109

**OR**

**Webinar:** <https://global.gotomeeting.com/join/931623109>

- I. CALL TO ORDER AND ROLL CALL
- II. PUBLIC COMMENT  
This is also an opportunity for members of the public to address the Committee on items that are not on the Agenda
- III. APPROVAL OF MEETING MINUTES
  - A. Mar 18, 2021 Regular Meeting – [Attachment 1](#)
- IV. OPERATIONS REPORT
  - A. Water Plant Operations, Reservoir Storage, Downstream Releases - [Verbal Update](#)
  - B. Projected Reservoir Levels – [Attachment 2](#)
  - C. March & April Monthly Operations Report – [Attachment 3](#)
- V. INFORMATION ITEMS
  - A. 3<sup>rd</sup> Quarter FY 2020/2021 Budget Status - [Attachment 4](#)
  - B. Cloud Seeding Update – [Verbal Update](#)
  - C. Contract Changes Update – [Verbal Update](#)
  - D. 20/21 Surplus Water adopted by the Board of Supervisors May 18, 2021 – [Attachment 5](#)
- VI. CAPITAL PROJECTS UPDATE
  - A. Bi-Monthly Update – [Attachment 6](#)
- VII. ACTION ITEMS (No Subsequent Board of Supervisors Action Required)
- VIII. ACTION ITEMS (Board of Supervisors Action is Subsequently Required)
  - A. 2019 UWMP Draft and Presentation – [Attachment 7 – Receive and File](#)
- IX. FUTURE AGENDA ITEMS
- X. COMMITTEE MEMBER COMMENTS

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Next Regular Meeting is Tentatively Scheduled for  
July 15, 2021 at 6:30 PM

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**SAN LUIS OBISPO COUNTY FLOOD CONTROL  
AND WATER CONSERVATION DISTRICT  
ZONE 3 ADVISORY COMMITTEE  
DRAFT MEETING MINUTES  
THURSDAY March 18, 20221**

I. **Call to Order and Roll Call** -- The Zone 3 Advisory Committee Meeting was called to order at 6:52 PM via GoTo Meeting due to the Covid-19 pandemic by Chairperson, Karen Bright. County Public Works Utilities Division Senior Engineer and Secretary to the Advisory Committee, David Spiegel, called roll. Quorum was present. Members in attendance were:

- Kristen Barneich, City of Arroyo Grande
- Karen Bright, City of Grover Beach
- Shirley Gibson, Oceano CSD
- Brad Hagemann, County Services Area 12
- Matthew Scurdato, Alternate
- Brian Talley, Agriculture Member
- Ron Reilly, Member At Large

II. **Public Comment** – This is an opportunity for members of the public to address the Committee on items that are not on the Agenda. No public comment.

III. **Approval of Meeting Minutes (Attachment 1)**

A. **January 21, 2021 – Member Barneich motioned approval of the minutes and Member Gibson seconded.** Member Bright requested roll call for approval. **Motion passed.**

IV. **Operations Report**

A. **Water Plant Operations, Reservoir Storage, Downstream Releases** – Jenny Williamson, Administrative Assistant at the Lopez Water Treatment Plant, indicated: Lopez Lake elevation was 479.54 feet; storage was 19,475 acre-feet (AF), which is 39% capacity; rainfall to date, since July 1, 2020, was 11.27 inches; plant production was 3.59 million gallons per day (MGD); downstream release was 1.86 MGD; and State Water was at 0.79 MGD.

B. **Projected Reservoir Levels** – Review of the Lopez Reservoir Projections Chart (Attachment 2 of the Agenda Packet).

C. **January and February Monthly Operations Report** – Review of the monthly operations reports with the committee (Attachment 3 of the Agenda Packet).

No public comment was given.

V. **Information Items**

A. **2<sup>nd</sup> Quarter FY 20/21 Budget Status** – County Public Works Finance Admin. Services Manager, Sherri Weiss, provided an update on the 1st Quarter Budget Status (Attachment 4 of the Agenda Packet). The \$6.3M budget was broken into three categories: Routine Operations & Maintenance, Non-Routine Operations &

Maintenance, and Capital Outlay. At the end of the fiscal year, 34% of the total annual budget had been expended.

Total Budget	Expenses through Q2	Balance Available	% of Budget Expended
\$6,366,952	\$2,156,741	\$4,210,211	34%

**Routine O&M:** has a budget of \$4.1M. At the end of the first quarter, 47% of the annual budget had been expended, resulting in approximately \$2.2 available for the remainder of the year. Expenses in this category are on target with budgeted levels.

Total Budget	Expenses through Q2	Balance Available	% of Budget Expended
\$4,150,223	\$1,964,828	\$2,185,395	47%

**Non-Routine O&M:** has a budget of approximately \$1.7M. At the end of the first quarter, 7% of the annual budget has been expended, resulting in an available balance of roughly \$1.6M for the remainder of the year. Most of the items in this category have had budget carried forward from the prior year in order to continue work on them.

Total Budget	Expenses through Q2	Balance Available	% of Budget Expended
\$1,688,057	\$115,457	\$1,572,600	7%

**Capital Outlay:** has a budget of almost \$580,000. At the end of the first quarter, expenses were 13% of the annual budget, resulting in approximately \$502,000 available for the remainder of the year. Unspent budget from the prior year has been carried forward for several projects and accounts for the majority of this category's budget.

Total Budget	Expenses through Q2	Balance Available	% of Budget Expended
\$578,672	\$76,546	\$502,216	13%

Revised billing for FY 2019-20 were mailed along with the 2<sup>nd</sup> installment of the FY 2020-21 billings that were due January 1, 2021. All agencies are current on their payments.

**B. Cloudseeding Update** – David Spiegel reviewed the North American Weather Consultants weather and operations report on the Lopez Lake Watershed cloud seeding program (Attachment 5 of the Agenda Packet).

The 2020 WY was characterized by long dry spells resulting from persistent high-pressure systems above the Central Coast. Contracts were formalized near the end

of December and operations were delayed until the beginning of January. The first seeding opportunity came in March of 2020.

Though the 2021 WY had below average rainfall, the earlier start in operations provided more seeding opportunities. NAWC has performed more seeding for the 2021 WY than what was previously performed during the 2020 WY.

Measure	Total for Seedable Period (AF)	Increase Attributed to Seeding (AF)	Cost per AF (\$)
Runoff	3,098	468	353
Precipitation	30,000	3,200	52

The Cloud Seeding program for the 2020 WY cost a total of \$165,525 and resulted in a calculated inflow (runoff captured by Lopez Lake) increase of an estimated 468 AF of water. This equates to a cost per AF of \$353, which is substantially less than other sources of water in the region. For the 2021 WY, NAWC recommended the transition to a “ground-only” seeding program to increase the overall program efficiency.

Seasonal Rainfall Estimates:

March – April 2020 Total rainfall at Upper Lopez	8.54 inches
Estimated natural (non-seeded) rainfall based on a 10% increase assumed due to seeding	7.76 inches
Difference (assumed seeding increase) representative of target area	0.78 inches

Seeded Storm Period Rainfall:

Storm Period	Upper Lopez Rainfall (inches)	Lopez Rec. Area Rainfall (inches)
March 9 – 11	1.45	1.68
March 15 – 16	1.81	1.65
March 22 – 23	0.99	0.75
April 5 – 6	1.63	1.76

NAWC estimated that a total of 30,000 AF of precipitation occurred over the watershed during the storms that were seeded for rain enhancement. With a minimum expected increase of 10% and a maximum expected increase of 17%, NAWC estimates a total increase in rainfall of 3,200 AF.

**C. Contract Changes Update** – A brief update was provided on the status of the contract changes.

**D. Voluntary Reductions** – A request was made at the last Advisory Committee meeting for further details on how much was spent and what the money was spent on for the HCP.

No public comment was given.

**VI. Capital Projects Update**

**Bi-Monthly Update** – Updates were provided on the various capital projects (Attachment 6 of the Agenda Packet).

No Public comment was given.

**VII. Action Items (No Subsequent Board of Supervisors Action Required)**

No Action Items discussed.

**VIII. Action Items (Board of Supervisors Action is Subsequently Required)**

**A. Fiscal Year 2021/22 Budget Endorsement**

**B. Estimated Surplus Water in WY 20/21** – Review of the Declaration of Surplus Water for Water Year 2020-21 (Attachment 7 of the Agenda Packet). It is recommended that the Advisory Committee recommend that the Board of Supervisors declare surplus water as described in Article 4, Sections (C) and (D) of the Lopez Water Supply Contracts, in the estimated amount of 1476 AF or as amended after actual end of water year accounting is completed.

Every year the District declares surplus water per the water supply contracts for Zone 3 of the District. The declaration of surplus water does not mean that there is an amount of “excess” water in the reservoir; surplus water is water that was saved from the previous year’s municipal entitlements and downstream releases.

This year’s estimated surplus is 1,476 AF as shown below:

<b>Contractor</b>	<b>Entitlement AF</b>	<b>Entitlement Delivered AF</b>	<b>Surplus Generated (Unused Entitlement)</b>	<b>Entitlement %</b>	<b>Surplus Available % (x 1476)</b>	<b>Cost per AF</b>	<b>Total Cost</b>
Arroyo Grande	2290	2239	51	50.55%	746	\$ 42.25	\$ 31,523.49
Pismo Beach	892	1135	0	19.69%	291	\$ 42.25	\$ 12,278.88
Grover Beach	800	785	15	17.66%	261	\$ 42.25	\$ 11,012.95
Oceano CSD	303	663	0	6.69%	99	\$ 42.25	\$ 4,171.95
CSA 12 (Avila)	245	125	120	5.41%	80	\$ 42.25	\$ 3,373.73
<b>Sub Totals</b>	<b>4530</b>	<b>4947</b>	<b>186</b>	<b>100%</b>			<b>\$ 62,361.00</b>
Downstream Releases	4200	2910	1290				
<b>Total</b>	<b>8730</b>	<b>7857</b>	<b>1476</b>				

Today’s item has no financial impact to the Zone 3 Lopez Water System. This year’s surplus water cost was calculated based on estimates of the cost to treat and deliver water in WY 21/22 and is offered at \$42.25 per AF. All revenues from the sales of surplus water are proportionately credited back to the Zone 3 agencies.

**IX. Future Agenda Items**

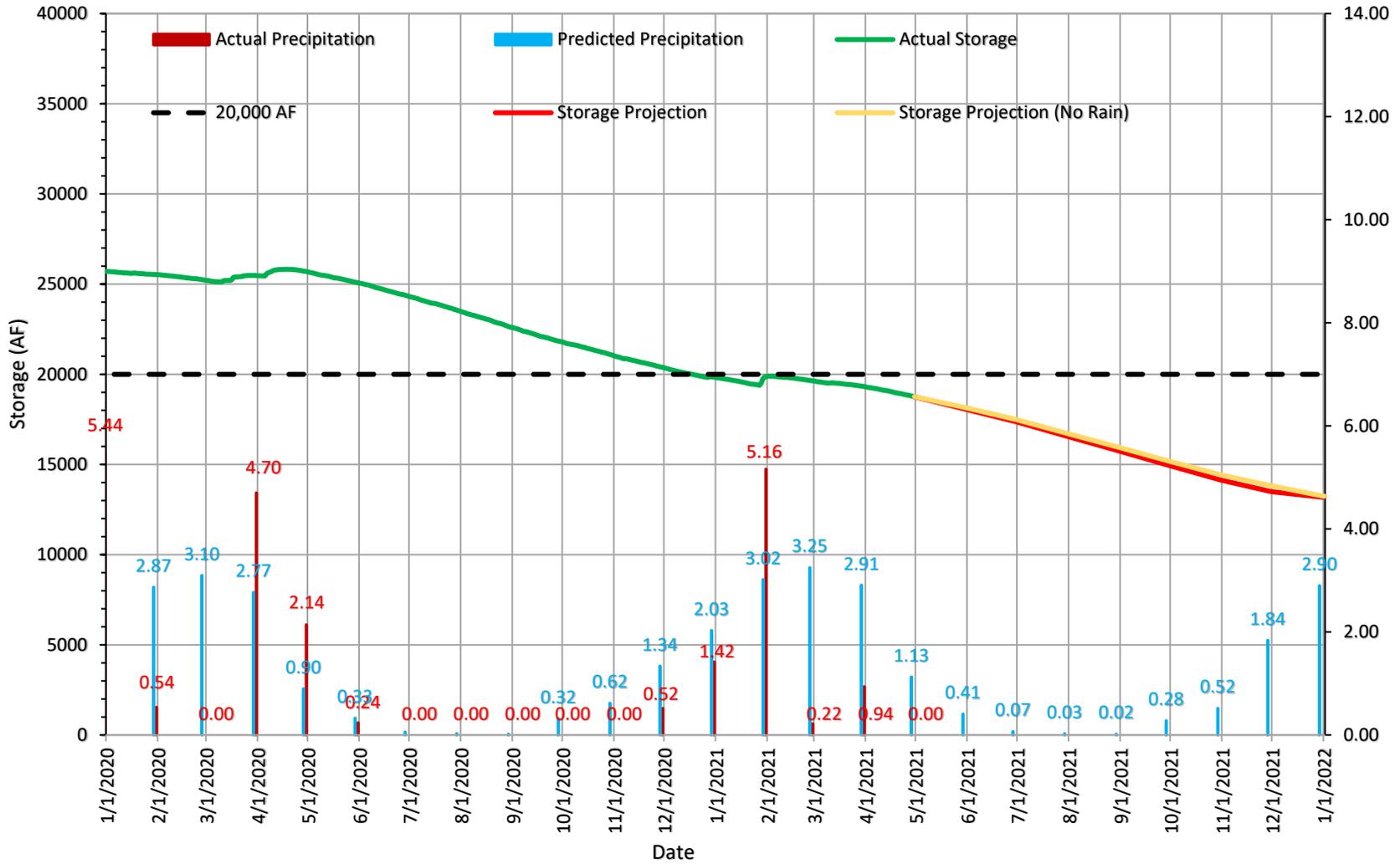
**X. Committee Member Comments**

**Meeting Adjourned at 7:46 PM**

Respectfully Submitted,

Jenny Williamson  
County of San Luis Obispo Public Works Department

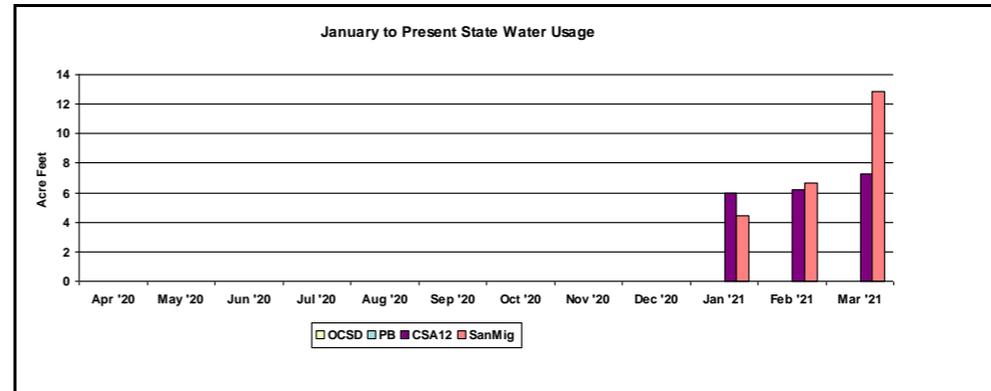
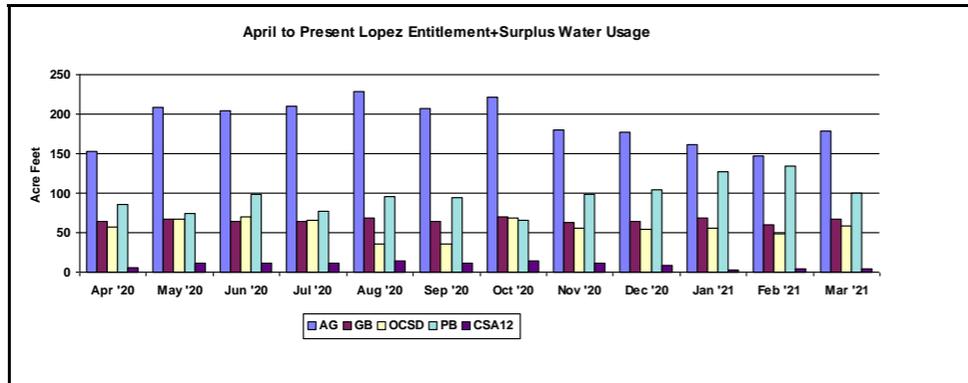
# LOPEZ RESERVOIR STORAGE PROJECTION



1. Storage projection is based on predicted rainfall from longrangeweather.com, inflow based on predicted rainfall, 20-21 downstream release requests, and municipal usage.
2. Municipal Usage is based on Jan 2010- Dec 2020 average monthly deliveries.
3. Predicted inflow is based off of historical precipitation and storage data. Antecedant moisture conditions are factored into the model. The first rainstorms after months without rain will cause less inflow than rainstorms during the rainy season. If the average daily rainfall for the previous three months is below 1 inch the model will multiply the predicted inflow by 0.1, if the average is above 1 inch the inflow is multiplied by 1.25.

## San Luis Obispo County Flood Control and Water District Zone 3 - Lopez Project - Monthly Operations Report March, 2021

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				SWP Deliveries	Change in Storage	January to Present		
					Entitlement		Surplus		Entitlement		Surplus		Total			Usage		% of Annual Request	Usage			% of Annual Request	Usage	% of Annual Request
					Usage	%	Usage	%	Usage	%	Usage	%	Usage	%										
Arroyo Grande	2290	911.00	111.00	2401.00	178.85	7.8%	0.00	0.0%	2277.86	99.5%	0.00	0.0%	2277.86	94.9%										178.85
Oceano CSD	303	121.00	371.00	674.00	0.00	0.0%	58.57	15.8%	303.00	100.0%	370.74	99.9%	673.74	100.0%	0	0.00	0.0%							58.57
Grover Beach	800	318.00	100.00	900.00	66.54	8.3%	0.00	0.0%	787.96	98.5%	0.00	0.0%	787.96	87.6%										66.54
Pismo Beach	892	355.00	605.00	1497.00	0.00	0.0%	99.60	16.5%	892.00	100.0%	263.24	43.5%	1155.24	77.2%	25	0.00	0.0%							99.6
CSA 12	245	98.00	0.00	245.00	4.98	2.0%	0.00	0.0%	111.83	45.6%	0.00	0.0%	111.83	45.6%	96	7.28	7.6%							12.26
San Miguelito															120	12.83	10.7%							12.83
<b>Total</b>	<b>4530</b>	<b>1803.00</b>	<b>1187.00</b>	<b>5717.00</b>	<b>250.37</b>	<b>5.5%</b>	<b>158.17</b>	<b>13.3%</b>	<b>4372.65</b>	<b>96.5%</b>	<b>633.98</b>	<b>53.4%</b>	<b>5006.63</b>	<b>87.6%</b>	<b>241</b>	<b>20.11</b>	<b>8.3%</b>	<b>76</b>	<b>55.89</b>	<b>43.28</b>	<b>18.0%</b>	<b>218.00</b>		<b>428.65</b>
												Last Month Stored State Water		<b>1426.5</b>			This Month Stored State Water		<b>1482.39</b>					



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.

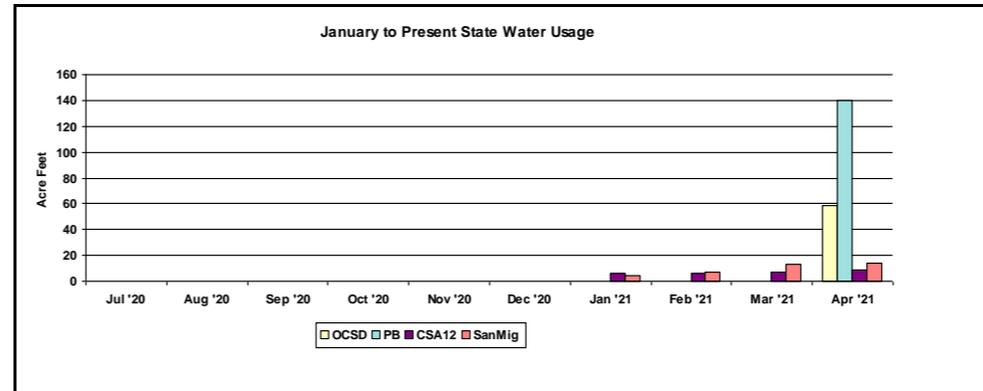
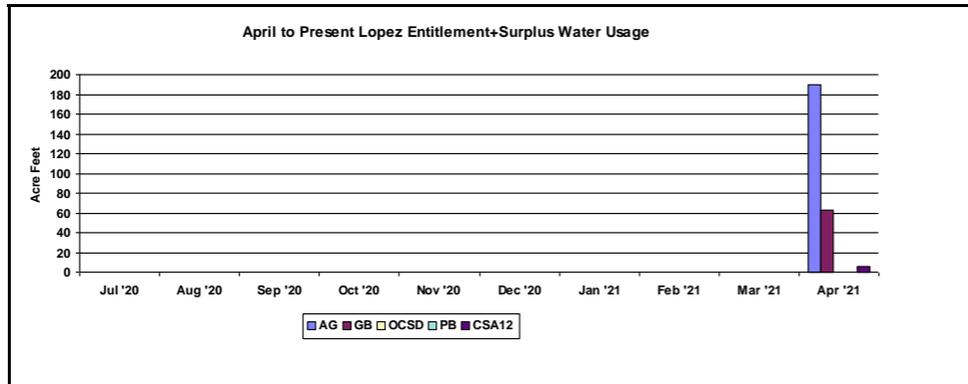
Lopez Dam Operations	This Month	Year to Date		
Lake Elevation (full at 522.37 feet)	479.16		Difference (feet)	-43.21
Storage (full at 49200 acre feet)	19297		% Full	39.2%
Rainfall	1.79	11.30		
Downstream Release (4200 acre feet/year)	57.6	2760.82		
Spillage (acre feet)	0	0.00		

**Comments:**

- Oceano supplied water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 1.69 AF delivered to Canyon Crest was added to Oceano's water usage this month and 1.69 AF was subtracted from Arroyo Grande's usage this month.
- OCSD revised their annual State Water Delivery Request on September 10th 2020 from 150 AF to 60 AF.
- In February 2021 Pismo granted 50AF of its surplus water to OCSD. Pismo's Surplus Water Requested was adjusted from 655 AF to 605 AF and OCSD's Surplus Water Request was adjusted from 321 AF to 371 AF.

## San Luis Obispo County Flood Control and Water District Zone 3 - Lopez Project - Monthly Operations Report April, 2021

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						This Month				January to Present								
					Entitlement		Surplus		Entitlement		Surplus		Total		Annual Request	Usage		% of Annual Request	SWP Deliveries	Change in Storage	Usage	% of Annual Request	SWP Deliveries				
					Usage	%	Usage	%	Usage	%	Usage	%	Usage	%													
Arroyo Grande	2290	0.00	0.00	2290	190.11	8.3%	0.00	0.0%	190.11	8.3%	0.00	0.0%	190.11	8.3%											190.11		
Oceano CSD	303	0.00	0.00	303	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	640	58.30	9.1%							58.30	9.1%		58.3
Grover Beach	800	0.00	0.00	800	62.82	7.9%	0.00	0.0%	62.82	7.9%	0.00	0.0%	62.82	7.9%													62.82
Pismo Beach	892	0.00	0.00	892	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	25	140.08	560.3%							140.08	560.3%		140.08
CSA 12	245	0.00	0.00	245	5.36	2.2%	0.00	0.0%	5.36	2.2%	0.00	0.0%	5.36	2.2%	96	8.40	8.8%							27.77	28.9%		13.76
San Miguelito															120	14.09	11.7%							38.00	31.7%		14.09
<b>Total</b>	<b>4530</b>	<b>0.00</b>	<b>0.00</b>	<b>4530</b>	<b>258.29</b>	<b>5.7%</b>	<b>0.00</b>	<b>0.0%</b>	<b>258.29</b>	<b>5.7%</b>	<b>0.00</b>	<b>0.0%</b>	<b>258.29</b>	<b>5.7%</b>	<b>881</b>	<b>220.87</b>	<b>25.1%</b>	<b>71</b>	<b>-149.87</b>					<b>264.15</b>	<b>30.0%</b>	<b>289.00</b>	<b>479.16</b>
													Last Month Stored State Water		<b>1440.88</b>				This Month Stored State Water		<b>1291.01</b>						



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)	477.97		Difference (feet)	-44.40
Storage (full at 49200 acre feet)	18750		% Full	38.1%
Rainfall	0.01	11.31		
Downstream Release (4200 acre feet/year)	241.52	241.52		
Spillage (acre feet)	0	0.00		

**Comments:**

1) Oceano supplied water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 2.14 AF delivered to Canyon Crest was added to Oceano's water usage this month and 2.14 AF was subtracted from Arroyo Grande's usage this month.

2) On May 12, 2021 Pismo requested to take all SW for April 2021.



**May 14, 2021**

**MEMORANDUM**

**TO:** Flood Control Zone 3 Advisory Committee  
**FROM:** Sherri Weiss, Admin. Services Manager  
**SUBJECT:** Flood Control Zone 3, Third Quarter Budget Status, Fiscal Year 2020-21

**Recommendation**

The item to be received and filed.

**Summary**

Attached please find a comparison of the budget to actual expenses for the third quarter of fiscal year 2020-21. The \$6.3M budget is broken into three categories: Routine Operations & Maintenance, Non-Routine Operations & Maintenance, and Capital Outlay. At the end of the third quarter, 50% of the total annual budget has been expended.

Total Budget	Expenses through Q3	Balance Available	% of Budget Expended
6,366,952	3,232,877	3,184,076	50%

**Routine O&M:** This category has a budget of \$4.1M dollars. At the end of the third quarter, 69% of the annual budget has been expended, resulting in approximately \$1.25M available for the remainder of the year. Expenses in this category are on target with budgeted levels.

Total Budget	Expenses through Q3	Balance Available	% of Budget Expended
4,150,223	2,884,393	1,265,830	69%

**Non-Routine O&M:** This category has a budget of approximately \$1.7M. At the end of the third quarter, 16% of the annual budget has been expended, resulting in an available balance of roughly \$1.4M for the remainder of the year. Unspent budget for most of the efforts in this category will be carried forward into next year to allow the continuation of work.

Total Budget	Expenses through Q3	Balance Available	% of Budget Expended
1,688,057	270,741	1,418,198	16%

**Capital Outlay:** This category has a budget of almost \$580,000. At the end of the third quarter, expenses were 13% of the annual budget, resulting in approximately \$501,000 available for the remainder of the year. At the end of the year, unspent budget will be carried forward into next year to continue the projects through completion, however, savings from completed projects may be allocated to other approved projects.

Total Budget	Expenses through Q3	Balance Available	% of Budget Expended
578,672	77,743	500,930	13%

**Other Agency Involvement/Impact**

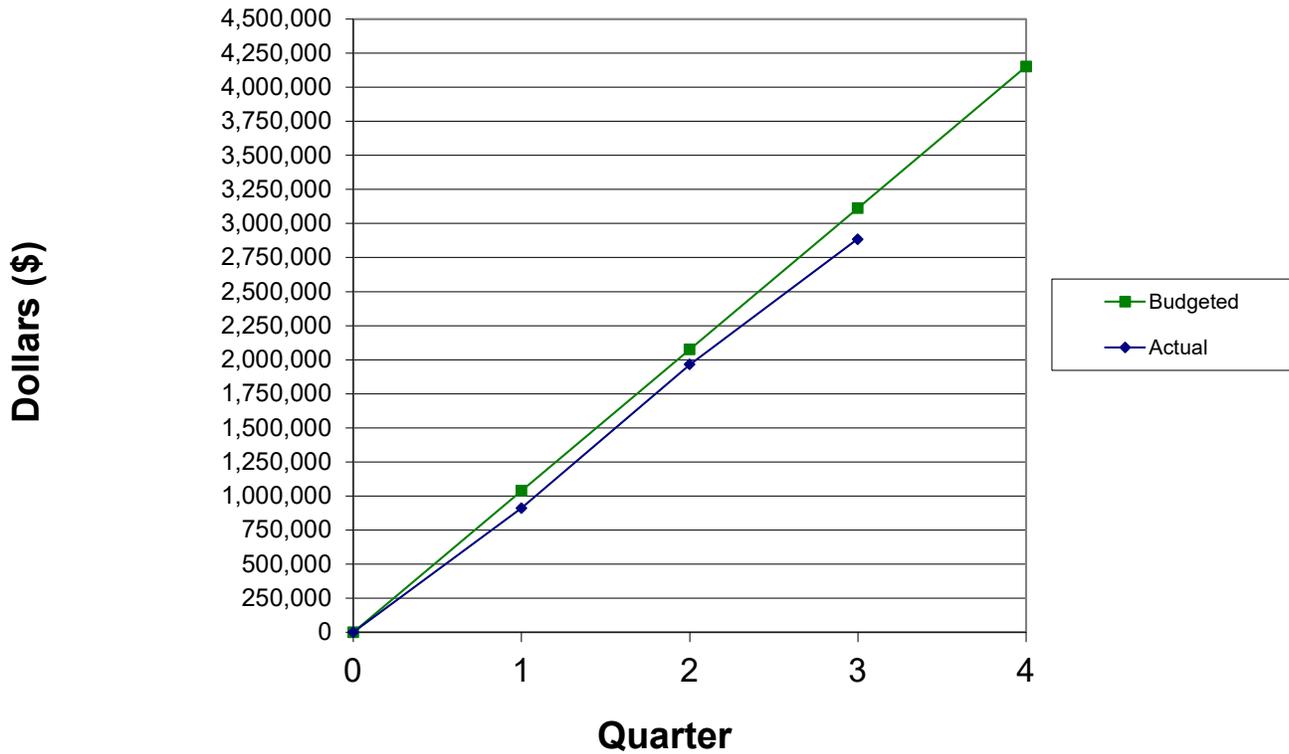
The agencies involved are: City of Arroyo Grande, City of Grover Beach, City of Pismo Beach, Oceano Community Services District, and County Service Area 12. Subcontractors of CSA 12 include Port San Luis Harbor District and Avila Beach Community Services District.

**Financial Consideration**

All agencies are current on their payments. The 1<sup>st</sup> installment billings for FY 2020-21 will be mailed by June 1<sup>st</sup>, and payments are due July 1, 2021.

Zone 3 Budget Status  
3rd Quarter FY20/21

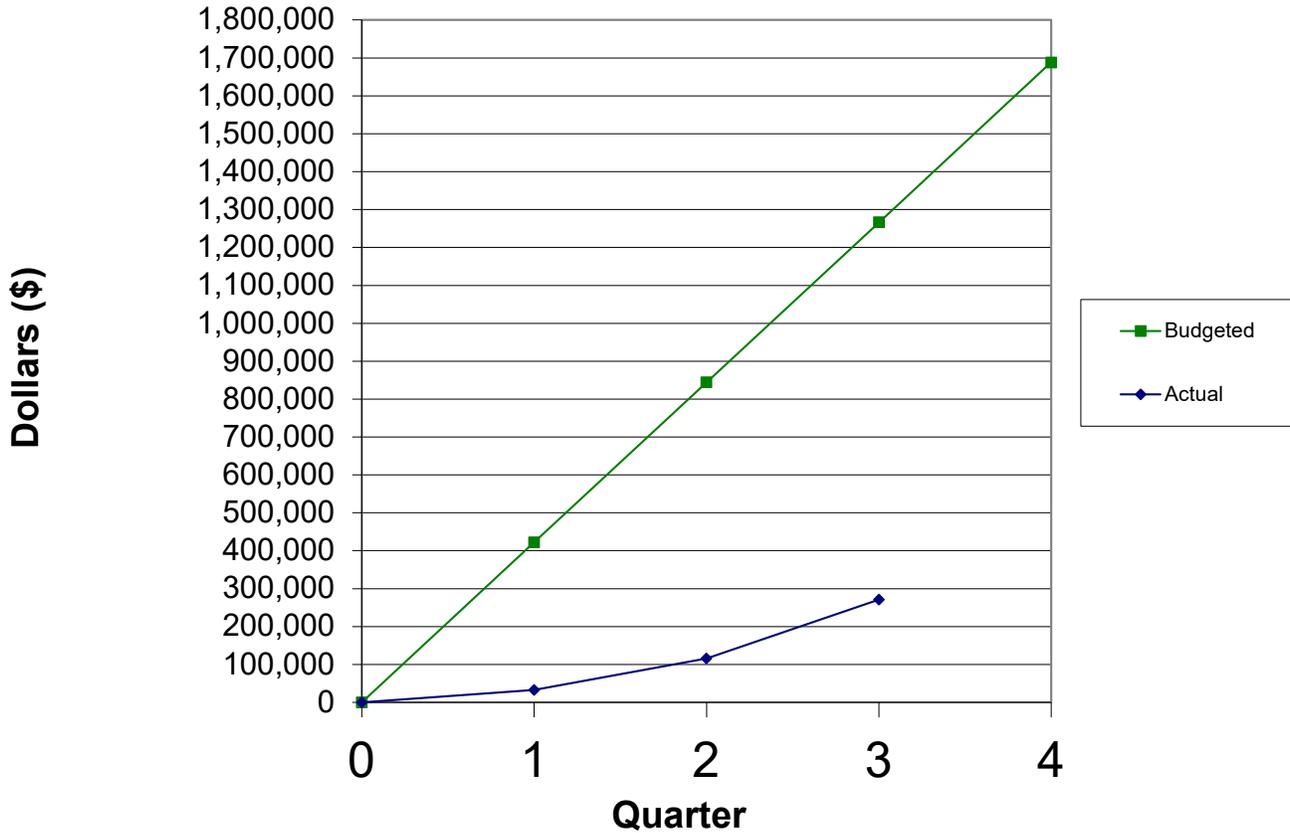
## Routine Operation and Maintenance



O&M Routine Category	Total Budget	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Total Exp as % of Budget	Total Balance Avail
Labor Hours	23,728	5,183	5,859	5,110	-	16,152	68%	
Chemicals - Water Treatment Plant	\$ 438,498	\$ 149,755	\$ 131,331	\$ 83,493	\$ -	\$ 364,579	83%	\$ 73,919
Water Quality Testing - Treatment Plant	46,282	12,718	11,374	10,559	-	34,651	75%	11,631
Electricity - Water Treatment Plant	295,445	94,582	81,708	61,693	-	237,983	81%	57,462
All Other Costs - Water Treatment Plant	1,691,940	383,007	470,723	452,157	-	1,305,887	77%	386,053
Terminal	272,343	18,567	49,052	22,254	-	89,873	33%	182,470
Main Dam	357,313	44,832	47,261	44,211	-	136,304	38%	221,009
Other	1,048,402	206,398	263,520	245,198	-	715,116	68%	333,286
Expenses		909,860	1,054,969	919,565	-	2,884,393	69%	1,265,830
Budget	4,150,223	1,037,556	1,037,556	1,037,556	1,037,556	3,112,667		
Variance (over)/under		127,696	(17,413)	117,991	1,037,556	1,138,134		
% Variance		12%	-2%	11%	100%			

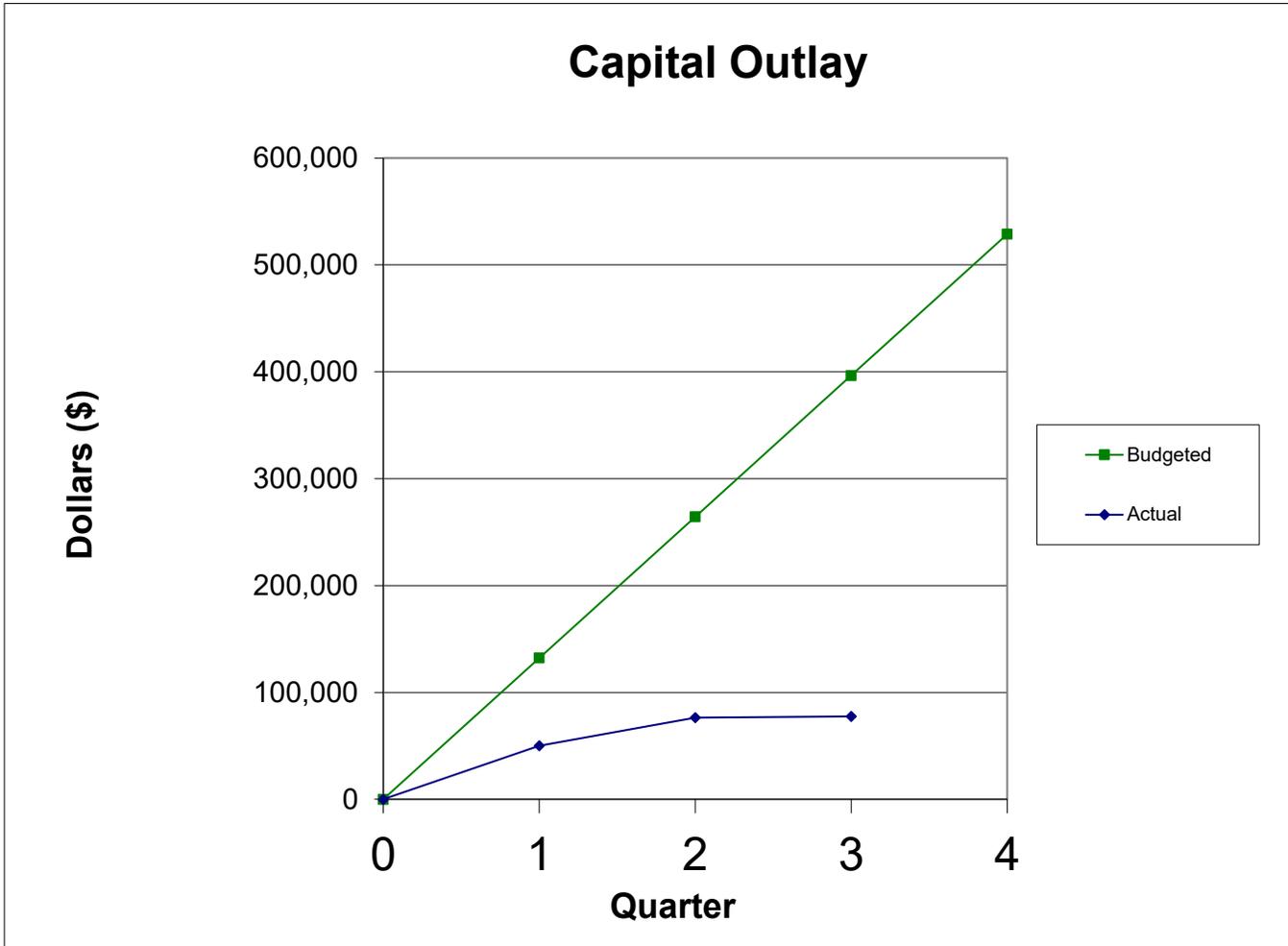
Zone 3 Budget Status  
3rd Quarter FY20/21

## Non-Routine Operation and Maintenance



O&M Non Routine Category	Total Budget	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Total Exp as % of Budget	Total Balance Avail
Lopez Water Rights /HCP	\$ 415,285	\$ 16,750	\$ 17,871	\$ 25,977	\$ -	\$ 60,598	15%	\$ 354,687
Cathodic Protection Repair Project	449,933	-	-	-	-	-	0%	449,933
Geotech Test/Seismic Alt Study Terminal Da	89,829	-	-	-	-	-	0%	89,829
Safety Upgrades to WTP	53,282	-	-	-	-	-	0%	53,282
Replace Obsolete Hach Turbidimeters	53,100	-	59,695	-	-	59,695	112%	(6,595)
Water Treatment Alternatives Study	35,000	-	-	-	-	-	0%	35,000
Risk Assessment Fault Zone Left Abutment	40,000	-	-	882	-	-	0%	40,000
Cloud Seeding Program	350,672	15,972	2,585	128,425	-	146,982	42%	203,690
Domestic Tank Repair	10,674	-	-	-	-	-	0%	10,674
Spillway Physical Investigation	190,282	-	2,584	-	-	2,584	1%	187,698
<b>Expenses</b>		<b>32,722</b>	<b>82,735</b>	<b>155,284</b>	<b>-</b>	<b>270,741</b>	<b>16%</b>	<b>1,418,198</b>
<b>Budget</b>	<b>1,688,057</b>	<b>422,014</b>	<b>422,014</b>	<b>422,014</b>	<b>422,014</b>	<b>1,688,057</b>		
<b>Variance (over)/under</b>		<b>389,292</b>	<b>339,280</b>	<b>266,730</b>	<b>422,014</b>	<b>1,417,316</b>		
<b>% Variance</b>		<b>92%</b>	<b>80%</b>	<b>63%</b>	<b>100%</b>			

Zone 3 Budget Status  
3rd Quarter FY20/21



Capital Outlay Projects	Total Budget	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Total Exp as % of Budget	Total Balance Avail
Improved Boat Access at Term Res	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 50,000
Equip Storage Garage Design	89,849	-	-	-	-	-	0%	89,849
Fireflow Tank Repair	85,000	-	-	-	-	-	0%	85,000
Cathodic Protection Units 1-3	1	-	-	1,287	-	1,287		(1,286)
Mini Excavator	46,700	50,092	-	-	-	50,092	107%	(3,392)
Dump Trailer	9,500	-	10,960	-	-	10,960	115%	(1,460)
ATV, Polaris	15,000	-	15,403	-	-	15,403	103%	(403)
New Water Treatment Barge	50,000	-	-	-	-	-	0%	50,000
Upgrade EQ Pump	17,623	-	-	-	-	-	0%	17,623
Carbon Dioxide Injection System	160,000	-	-	-	-	-	0%	160,000
Various Equipment Replacement	55,000	-	-	-	-	-	0%	55,000
<b>Expenses</b>		50,092	26,363	1,287	-	77,743	13%	500,930
<b>Budget</b>	578,673	144,668	144,668	144,668	144,668	578,673		
<b>Variance (over)/under</b>		94,576	118,305	143,381	144,668	500,930		
<b>% Variance</b>		65%	82%	99%	100%			

*Lopez Water - Surplus Water Available in 2021/2022 by Contract*

A	B	C	D	E	F	G	H	J
<b>2020 -2021 Water Available Per Contract</b>				<b>Actual Deliveries</b> April 2020-Mar 2021			<b>Surplus by Contract</b>	
<b>Contractor</b>	<b>Entitlement</b>	<b>Surplus<sup>2</sup></b>	<b>Total Available</b>	<b>Entitlement</b>	<b>Surplus<sup>3</sup></b>	<b>Total Deliveries thru WY 2020/21</b>	<b>Surplus Generated Unused Entitlement</b>	<b>Surplus Available by Contract</b>
Arroyo Grande	2,290	911	3,201	2,278	0	2,278	12	807
Pismo Beach <sup>1</sup>	892	355	1,247	892	263	1,155	0	314
Grover Beach	800	318	1,118	788	0	788	12	282
Oceano CSD	303	121	424	303	371	674	0	107
CSA 12	245	98	343	112	0	112	133	86
<b>Sub Totals</b>	<b>4,530</b>	<b>1,803</b>	<b>6,333</b>	<b>4,373</b>	<b>634</b>	<b>4,436</b>	<b>157</b>	<b>1,597</b>
Downstream	<b>4,200</b>			<b>2,761</b>		<b>2,761</b>	<b>1,439</b>	<b>0</b>
<b>Total</b>	<b>8,730</b>			<b>7,133</b>		<b>7,767</b>	<b>1,597</b>	<b>1,597</b>

**NOTES**

1. Includes subcontract for 92 AF from CSA12
2. Surplus water as declared on 6/2/2020 at BOS
3. Surplus Requested/Purchased by each Agency

**CALCULATIONS**

Columns A-D from BOS 6.2.2020 Surplus Water Declaration

Columns E-G actual water deliveries for water year 20/21

Columns H-J surplus water calculations per Water Supply Contracts



## ZONE 3 Lopez Project

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San Luis Obispo County Flood Control and Water Conservation District

**TO:** Zone 3 Advisory Committee

**FROM:** David Spiegel, PE

**DATE:** May 20, 2021

**SUBJECT:** Zone 3 Projects Update

### **Project Updates:**

- Tesla Battery Storage
  - 50% plans are being developed.
  - Budget - Free
- Spillway Assessment and Investigation
  - The District is in the process of cleaning and videoing the underdrains that had blockages.
  - Budget ~\$190,000
- Geotechnical Testing & Seismic Alternatives Study of Terminal Reservoir Dam
  - Geotechnical Testing and Design RFP is currently out to bid, closes May 28, 3:00pm.
  - Budget 20/21 ~\$89,829
- Fault Zone Risk Assessment for Dam Left Abutment
  - A risk assessment has been requested by the TAC to determine the probability of such an event.
  - Soliciting quotes
  - Budget ~\$40,000
- Lopez WTP Safety Upgrades (No Change)
  - Staff are looking into additional consultants to do a lifeline system within the membrane building.
  - Multiple consultants have reviewed the project, but none have quoted the project.
  - Budget ~\$53,000
- Cathodic Protection Repair Project
  - Awarding to JDH
  - Budget 20/21 ~\$449,933
- Equipment Storage Building
  - Building has been purchased.
  - Soliciting building installers.
  - Budget ~\$90,000



## ZONE 3 Lopez Project

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San Luis Obispo County Flood Control and Water Conservation District

- CO2 Injection System
  - Our CIP division is currently preparing an RFP for the CO2 system and will be out to bid soon.
  - Current budget \$160,000 and an additional \$121,000 is needed.

### **Unbudgeted O&M Projects**

- Sludge Bed Curtain Wall Rehabilitation (No Change)
  - One sludge bed has developed a leak through the adjacent hillside that leads down to the terminal reservoir's spillway. This bed had an existing underground curtain wall poured in the 90's to fix this issue.
  - Quotes are being received to pressure grout in front of the underground curtain wall to re-seal any cracks that have developed over the last 30 years.
  - ~\$50,000 per initial quote
- Leak at Main Dam outlet works building (No Change)
  - Working with contractor to schedule the work.
  - The District will notify Zone 3 agencies of any planned shutdowns during construction, however, the terminal reservoir should provide enough storage to not cause any delivery issues.

### **Upcoming Projects for 20/21:**

- EQ Pump Upgrade

### **Completed Projects**

- Replacement of Hach Turbidimeter
- Repairs to Terminal Dam Spillway
- Lopez Terminal Dam Monument Survey
- Domestic Tank Repairs



**SLOCFC&WCD ZONE 3**

# **Urban Water Management Plan**



May 20, 2021

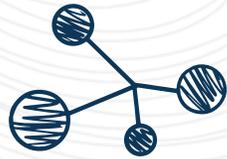
# Agenda



**About UWMPs**



**Population**



**Demand, Supply & Reliability**



**Water Shortage Contingency Plan**



**Demand Management Measures**



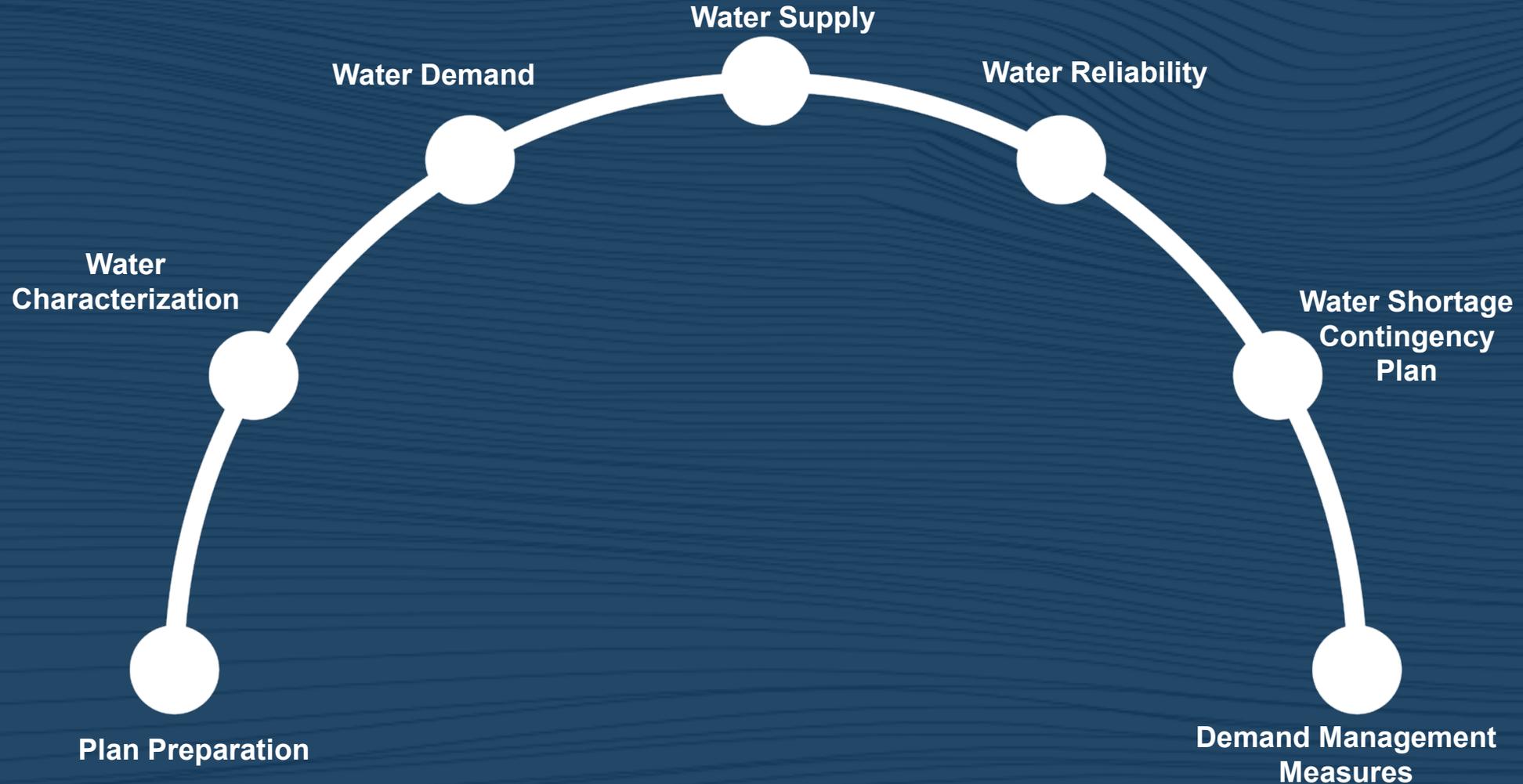
# About Urban Water Management Plans (UWMPs)

- Urban Water Management Plans (UWMPs) are required by the California Water Code
- UWMPs must be updated every 5 years and submitted to DWR
- Supports long-term water supply and drought planning
- Ensure supplies meet existing and projected demands over a 25-year horizon through 2040
- Provides framework for conservation and drought response
- Pre-requisite for certain loans and grants





# UWMP Elements



## ZONE 3

# Population



<b>POPULATION SERVED</b>	<b>2020</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>
Avila Beach	1,449	1,483	1,517	1,544	1,579	1,593
Oceano	7,204	7,565	7,943	8,113	8,300	8,370
Arroyo Grande	17,380	18,023	18,546	18,954	19,162	19,291
Grover Beach	13,115	13,522	13,860	14,109	14,233	14,297
Pismo Beach	7,932	8,376	8,711	8,955	9,089	9,170
<b>TOTAL</b>	<b>47,081</b>	<b>48,968</b>	<b>50,576</b>	<b>51,675</b>	<b>52,364</b>	<b>52,722</b>

CURRENT AND PROJECTED

# Demands

Total Demand

USE TYPE	ADDITIONAL DESCRIPTION	LEVEL OF TREATMENT WHEN DELIVERED	2020 VOLUME
Sales/Transfers/Exchanges to Other Agencies	Lopez Entitlement Usage	Drinking Water	4,264
Sales/Transfers/Exchanges to Other Agencies	Lopez Surplus Usage	Drinking Water	611
Wetlands or Wildlife Habitat	Downstream Releases	Raw Water	2,958
<b>TOTAL:</b>			<b>7,833</b>

Contract Water Deliveries (current and projected)

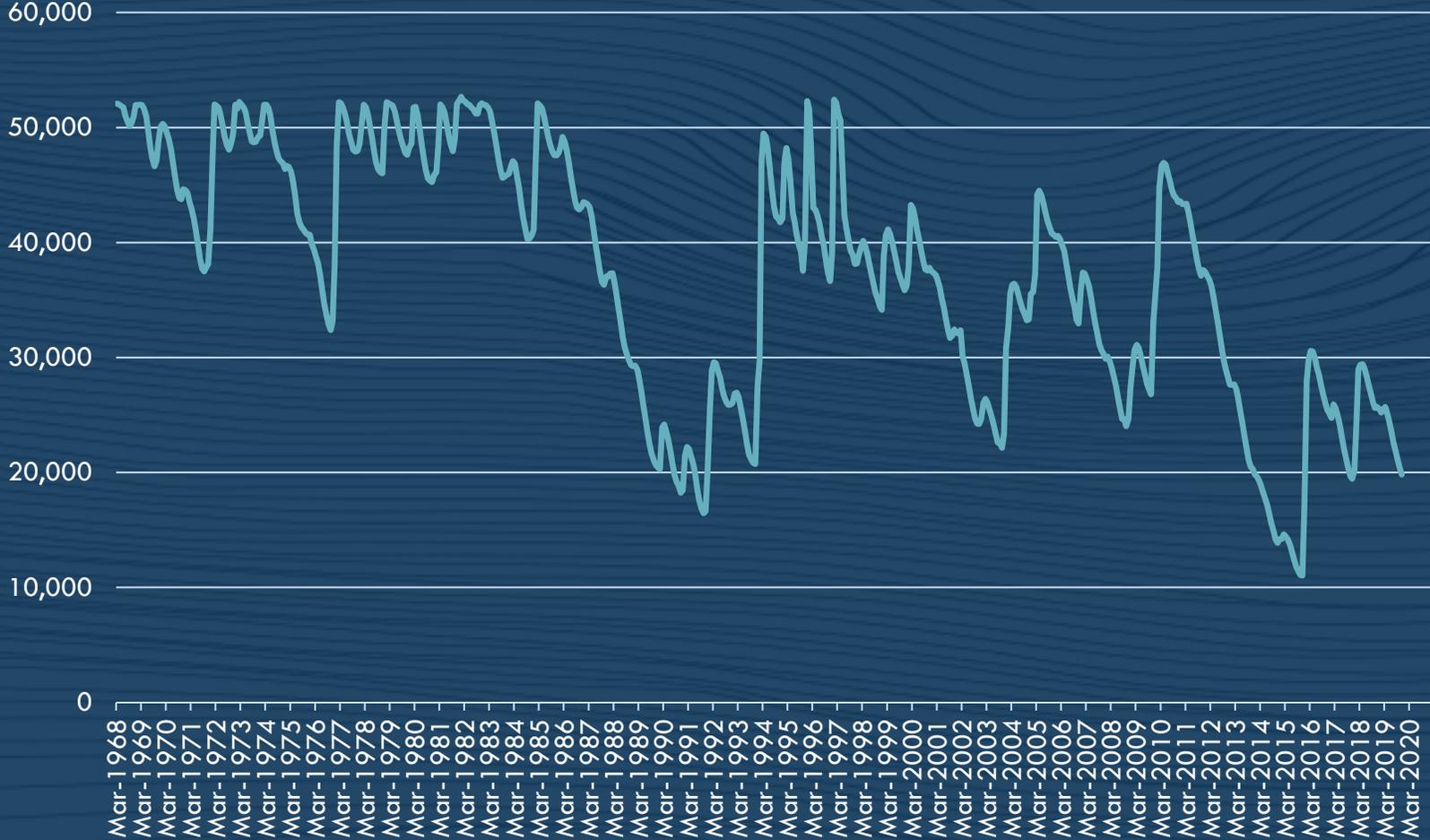
CONTRACT AGENCY	2020	2025	2030	2035	2040	2045
City of Pismo Beach	1,045	892	892	892	892	892
Oceano CSD	664	303	303	303	303	303
City of Grover Beach	789	800	800	800	800	800
City of Arroyo Grande	2,242	2,290	2,290	2,290	2,290	2,290
CSA 12	136	245	245	245	245	245
<b>TOTAL:</b>	<b>4,875<sup>1</sup></b>	<b>4,530</b>	<b>4,530</b>	<b>4,530</b>	<b>4,530</b>	<b>4,530</b>

<sup>1</sup>Surplus Water from 2019 is included in the 2020 total water deliveries.

# Supply Sources



Lopez Project



PAST, CURRENT AND PROJECTED

# Supply

	2015 <sup>2</sup>	2020	2025	2030	2035
City of Pismo Beach	803	892	892	892	892
Oceano CSD	273	303	303	303	303
City of Grover Beach	720	800	800	800	800
City of Arroyo Grande	2,061	2,290	2,290	2,290	2,290
CSA 12	220	245	245	245	245
Downstream Releases	3,800	4,200	4,200	4,200	4,200
Available Surplus <sup>1</sup>	0	1,803 <sup>3</sup>	0	0	0
<b>TOTAL</b>	<b>7,877</b>	<b>10,533</b>	<b>8,730</b>	<b>8,730</b>	<b>8,730</b>

1) As presented in Table 6-1, it is assumed that in the future, 4,200 AFY will be reserved for downstream releases and no surplus water will be available to Contract Agencies. When less water is released from Lopez Reservoir for downstream releases and/or contractors do not use their full entitlement, surplus water may be made available to Contract Agencies.

2) In 2015, Zone 3 was operating at 10% reduced entitlements in accordance with the LRRP.

3) Surplus water made available to the Contract Agencies from the previous year (2019).

# Water Reliability

- Lopez Water Treatment Plant meets current water quality standards
- Normal, Single Dry Year, And Five-Consecutive Dry Years

YEAR TYPE	BASE YEAR	AVAILABLE SUPPLY IF YEAR TYPE REPEATS	
		VOLUME AVAILABLE <sup>1</sup>	PERCENT OF AVERAGE SUPPLY
Average Year	2007	8,730	100%
Single-Dry Year	2016	7,877	90% <sup>2</sup>
Consecutive Dry Years 1st Year	2012	8,730	100%
Consecutive Dry Years 2nd Year	2013	8,730	100%
Consecutive Dry Years 3rd Year	2014	8,730	100%
Consecutive Dry Years 4th Year	2015	7,877	90%
Consecutive Dry Years 5th Year	2016	7,877	90%

<sup>1</sup> Volume available equates to the municipal diversions and downstream releases.

<sup>2</sup> Municipal diversion reduced by 10% or (453 AF) and downstream releases reduced by 9.5% (400 AF) in accordance with the reduction strategy of the LRRP.

# Water Shortage Contingency Plan

## 2020 New Requirements

Section	New Requirement	Description
8.1	Water Supply Reliability Analysis	Description of reliability analysis
8.2	Annual Water Supply & Demand Assessment	Written description of decision-making process to determine water supply reliability, including methodology used to evaluate supply
8.3	Six Standard Water Shortage Stages	Define six standard water shortage levels
8.4	Shortage Response Actions	Identify shortage response actions that align with the different water shortage stages
8.5	Communication Protocols	Communication procedures to inform interested parties & Contractors of predicted shortages
8.7	Legal Authorities	Disclosure of legal authorities required to implement shortage response actions and adopt the WSCP
8.10	WSCP Refinement Procedures	Description of how Supplier intends to use adaptive management to evaluate the need for, and procedures to revise its WSCP

# Water Shortage Contingency Plan

**Table 8-3. Relationship between Zone 3 Low Reservoir Response Plan Municipal Diversion Reductions and 2020 WSCP Mandated Shortage Levels**

<b>SHORTAGE LEVEL</b>	<b>PERCENT SHORTAGE RANGE (NUMERICAL VALUE AS A PERCENT)</b>	<b>LRRP SHORTAGE LEVEL</b>	<b>LRRP WATER STORAGE AMOUNT (AF)</b>	<b>MUNICIPAL DIVERSION REDUCTIONS</b>
1	Up to 10%	1	20,000	0% Reduced Diversion
		2	15,000	10% Reduced Diversions
2	Up to 20%	3	10,000	20% Reduced Diversions
3	Up to 30%			
4	Up to 40%	4	5,000	35% Reduced Diversions
5	Up to 50%	5	4,000	100% Reduced Diversion
6	>50%			

# Water Shortage Contingency Plan

**Table 8-4. Relationship between Zone 3 Low Reservoir Response Plan Downstream Release Reductions and 2020 WSCP Mandated Shortage Levels**

SHORTAGE LEVEL	PERCENT SHORTAGE RANGE (NUMERICAL VALUE AS A PERCENT)	LRRP SHORTAGE LEVEL	LRRP WATER STORAGE AMOUNT (AF)	DOWNSTREAM RELEASE REDUCTIONS
1	Up to 10%	1	20,000	9.5% Reduced Releases
		2	15,000	9.5% Reduced Releases
2	Up to 20%			
3	Up to 30%			
4	Up to 40%	NA	-	-
5	Up to 50%			
6	>50%	3	10,000	75.6% Reduced Releases
		4	5,000	92.9% Reduced Releases
		5	4,000	100% Reduced Releases

# Water Shortage Contingency Plan

- Adoption of the WSCP does not constitute adoption of the LRRP
- WSCP is a proposed plan Zone 3 has prepared to prepare for and respond to water supply shortages
- WSCP incorporates components of the LRRP



## Steps for Adoption:

1. Draft Review by TAC
2. Draft reviewed by agricultural stakeholders
3. Policy direction provided by any Contract Agency Governing Boards are considered
4. Zone 3 AC review and approval
5. Zone 3 Contract Agency Governing Boards formal approval by resolution
6. Final approval by the BOS

# Demand Management Measures

DMM	Status
1. Metering	Meter Replacements
2. Public education and outreach	Water Conservation Billboards
3. Water Conservation Program and Staffing Support	Water Conservation Coordinator
4. Other Demand Management Measures <ul style="list-style-type: none"><li>➤ Residential Plumbing retrofits</li><li>➤ Water surveys</li></ul>	Support Contract Agencies

**Thank You!**



WASC