



ZONE 3 ADVISORY COMMITTEE

San Luis Obispo County Flood Control and Water Conservation District

AGENDA

Thursday, January 16, 2020 6:30 P.M.
City of Grover Beach Council Chambers
154 S. Eighth St, Grover Beach, California 93433

- I. CALL TO ORDER AND ROLL CALL
- II. PUBLIC COMMENT
This is 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. November 14, 2019 – [Attachment 1](#)
- IV. APPROVAL OF 2020 MEETING SCHEDULE REVISIONS – [Attachment 2](#)
- V. OPERATIONS REPORT
 - A. Water Plant Operations, Reservoir Storage, Downstream Releases - [Verbal Update](#)
 - B. Projected Reservoir Levels – [Attachment 3](#)
 - C. November & December Monthly Operations Report – [Attachment 4](#)
- VI. INFORMATION ITEMS
 - A. Proposed FY 20/21 Budget – [To Be Distributed at Meeting](#)
 - B. Cloud Seeding Update – [Verbal Update](#)
 - C. Water Supply Contract Changes – Staff Report & Presentation - [Attachment 5](#)
- VII. CAPITAL PROJECTS UPDATE
 - A. Bi-Monthly Update – [Attachment 6](#)
- VIII. ACTION ITEMS (No Subsequent Board of Supervisors Action Required)
- IX. ACTION ITEMS (Board of Supervisors Action is Subsequently Required)
- X. FUTURE AGENDA ITEMS
 - A. Contract Changes
 - B. Floating Solar
 - C. Low Reservoir Response Plan (LRRP)
 - D. Cost/Benefit Analysis of De-Commissioning the Terminal Reservoir
- XI. COMMITTEE MEMBER COMMENTS

Next Regular Meeting is Scheduled for
March 19, 2020 at 6:30 PM at the City of Arroyo Grande Council Chambers
Agendas accessible online at www.slocounty.ca.gov/pw/zone3

**SAN LUIS OBISPO COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
ZONE 3 ADVISORY COMMITTEE
DRAFT MEETING MINUTES
THURSDAY November 14, 2019**

- I. **Call to Order and Roll Call** -- The Zone 3 Advisory Committee Meeting was called to order at 6:30 PM at the City of Arroyo Grande Council Chambers by Representative, Kristen Barneich.

County Public Works Utilities Division Senior Engineer and Secretary to the Advisory Committee, Jill Ogren, called roll. Quorum was present. Members in attendance were:

- Shirley Gibson, Oceano CSD
- Kristen Barneich, City of Arroyo Grande
- Marcia Guthrie, City of Pismo Beach
- Karen Bright, City of Grover Beach
- Jim Garing, Member at Large
- Vard Ikeda, Agriculture Member
- Brad Hagemann, CSD Area 12

- II. **Public Comment** – No public comment was given.

III. **Approval of Meeting Minutes**

A. **September 19, 2019** – Member Garing motioned approval and Member Gibson seconded. Quorum was met, and *motion passed*.

- IV. **Approval of 2020 Meeting Schedule** – Ms. Ogren made note that the date of July 16th is highlighted in red due to a scheduling conflict for Oceano CSD. Resolution of the conflict will not be known until November 21st. Ms. Ogren also mentioned the November 19th meeting date is highlighted in red due to the November meeting always being moved up a week. Ms. Ogren was unclear on the reasoning for the adjustment and needed verification to keep the date or move it up to November 12th. Advisory Committee agreed to keep the November 19th meeting as scheduled. Member Garing noted that the Technical Advisory Committee is scheduled to meet on Veteran’s Day, November 11th. Ms. Ogren stated the TAC meeting will be moved to November 4th to accommodate the observed holiday and a revised meeting calendar will be submitted to both TAC and the Advisory Committee. Member Gibson motioned approval and Member Hagemann seconded. *motion passed*.

V. **Operations Report**

A. **Water Plant Operations, Reservoir Storage, Downstream Releases** -- Ms. Ogren indicated: Lopez Lake elevation was 491.47 feet; storage was 25,827 acre-feet (AF), which is 52% capacity; rainfall to date, since July 1, 2019, was 0 inches; plant production was 5.21 million gallons per day (MGD); downstream release was 3.0

MGD; and State Water was 0 MGD. State Water is currently off due to maintenance and expected to be back on November 18th.

B. Projected Reservoir Levels – Ms. Ogren discussed the Lopez Reservoir Projections Chart, it was noted that the actual storage level is well above the 20,000 Acre-ft level which is the trigger for considering the low reservoir response plan. Also noted is that actual rainfall amounts are behind projected amounts. Projected rain fall shows rain is expected for the months of November and December with a peak quantity of 3.87 inches in March.

Member Guthrie asked if models have been created in taking out rainfall and calculated where reservoir levels would be without the anticipated rainfall. Ms. Ogren answered no, but an additional line on the chart displaying estimated reservoir levels should no rainfall be received can be provided at the next meeting.

C. September & October Monthly Operations Report -- Ms. Ogren, reviewed the monthly operations reports with the committee. Ms. Ogren stated a revised October report is available and will be sent out separately. At the time the report was generated, numbers for State Water were not available. The 1,265 acre feet stored State Water noted is incorrect and stored State Water is closer to 1,287 acre feet. Oceano has used all their Entitlement water and are now using requested Surplus water. All other agencies are still using Entitlement water.

Shane Taylor, City of Arroyo Grande Utilities Manager, made comment. The Lopez Water Treatment Plant had been requested to keep State Water off until November 20th as City of Arroyo Grande was still flushing their system with free chlorine. Ms. Ogren noted the request and did not foresee an issue.

Member Ikeda referenced the year to date downstream release and asked what that number would have been had downstream releases been lowered due to all the projects going on in Zone 1/1A. Ms. Ogren stated in November of 2018 total water released since April 2018 was 2,552 AF and currently this year's downstream release to date is at 1,347 AF. Ms. Ogren the difference between both years was in part from adjusting the monthly downstream release starting in August of 2019 because of two projects taking place on the Arroyo Grande Creek channel but also releases were less April thru June due to having had a wet winter. Ms. Ogren stated she can provide a graph showing the downstream release adjustments over the year between November 2018 and November 2019.

No public comment was given.

VI. Information Items

A. 1st Quarter Budget Status – Kristi Smith, County Public Works Finance Division, discussed the 1st Quarter budget status and referred to Attachment 5 in the Agenda Packet.

Member Hagemann asked if the revised billing for FY 2018-19 and the 2nd installment of the FY 2019-20 were regarding State Water. Ms. Smith stated she would need to

check regarding Avila Beach billings and contact Member Hagemann as soon as she confirms if this was for State Water.

No public comment was given.

B. Water Supply Contract Changes Update – Ms. Ogren recapped the September meeting where Dan Heimel provided a presentation on the contract changes and stated he would return to the November meeting with further results. Unfortunately, it took a little longer than expected to create the new baseline modeling scenario criteria and the limited available results could not be vetted by the Technical Advisory Committee at the November 4th meeting. Ms. Ogren proposed bringing the full results to the January 16th Advisory Committee meeting and allow the Technical Advisory Committee to review the latest results at their December meeting.

C. Cloud Seeding Update – Ms. Ogren spoke with Ray Dienzo the Cloud Seeding Project Manager. Project is currently on track to go before the Board of Supervisors on December 17th for contract award and program will begin directly after the meeting. Estimated time frame to begin Cloud Seeding is as soon as mid-January depending on weather. The contract will be a potential 3-year contract with the first year being confirmed and evaluating the needs/desires of Zone 3 before committing to the next two years.

Member Ikeda asked if the budgeted \$300,000 is the estimated cost or if costs are more than \$300,000 if that would be brought back to the Advisory Committee for discussion or approval. Ms. Ogren clarified that the contract is set for \$300,000 the first year with the next two years not to exceed \$350,000 for each year. The first year of Cloudseeding has costs currently at \$277,000. Member Ikeda asked if there was an upfront cost or if there are no storms to cloudseed what the cost would be. Ms. Ogren stated there is a base cost that would be lost if there are no storms to cloudseed, but the exact numbers were not immediately available to provide. Ms. Ogren noted that the base cost that would be lost would cover pilot on standby, plane on standby, etc.

No public comment was given.

VII. Capital Projects Update

B. Bi-Monthly Update – Ms. Ogren, referencing the staff report on Capital Improvement Project Updates (Attachment 6), presented the current list of projects to be completed and a brief discussion of the status of each project. Updates were provided regarding the Lopez Dam and Terminal Dam Hazard Classification and the Lopez Leach Field Replacement project was completed.

Member Bright requested a brief explanation of the Lopez Dam and Terminal Dam Hazard Classification project. Ms. Ogren stated the Hazard Classification designation was given to all dams that were considered “High Hazard” in the aftermath of the Oroville dam disaster. “High Hazard” was defined as any dam that has a sizeable community downstream of the dam, this put the Lopez Dam and Terminal Dam under

the classification. The classification required new inundation maps and an update to the Emergency Action Plans, all of which needed to be submitted to CAL OES.

No Public comment was given.

VIII. Action Items (No Subsequent Board of Supervisors Action Required)

No Action Items discussed.

IX. Action Items (Board of Supervisors Action is Subsequently Required)

No Action Items discussed.

X. Future Agenda Items

A. Contract Changes

B. Cloud Seeding

C. Low Reservoir Response Plan (LRRP)

D. Cost/Benefit Analysis of Abandoning Use of the Terminal Reservoir

E. Proposed Budget

F. AT&T Cell Tower Site Lease

XI. Committee Member Comments

Member Hagemann requested a brief explanation on why abandoning use of the Lopez Terminal Reservoir is being considered. Ms. Ogren explained that after the Lopez Water Treatment Plant upgrade in 2007, the need for the Terminal Reservoir has decreased due to the advances in technology for water treatment. Currently a geotechnical study is being conducted of the Terminal Dam's stability to decide if it's worth continuing to maintain or pursue legislation to abandon the dam.

Member Garing noted that wet years usually start off with wet weather beginning in October. With no rain being received yet in November, it was noted that everyone should be prepared for a possibly dry weather for the rain season. Member Garing referenced the last major storms in 1997 and 2010.

Member Guthrie requested a model for a perspective between rainfall and no rainfall for the reservoir to have a visual in what a dry year could entail.

Meeting Adjourned at 7:05 PM

Respectfully Submitted,

Jenny Williamson
County of San Luis Obispo Public Works Department



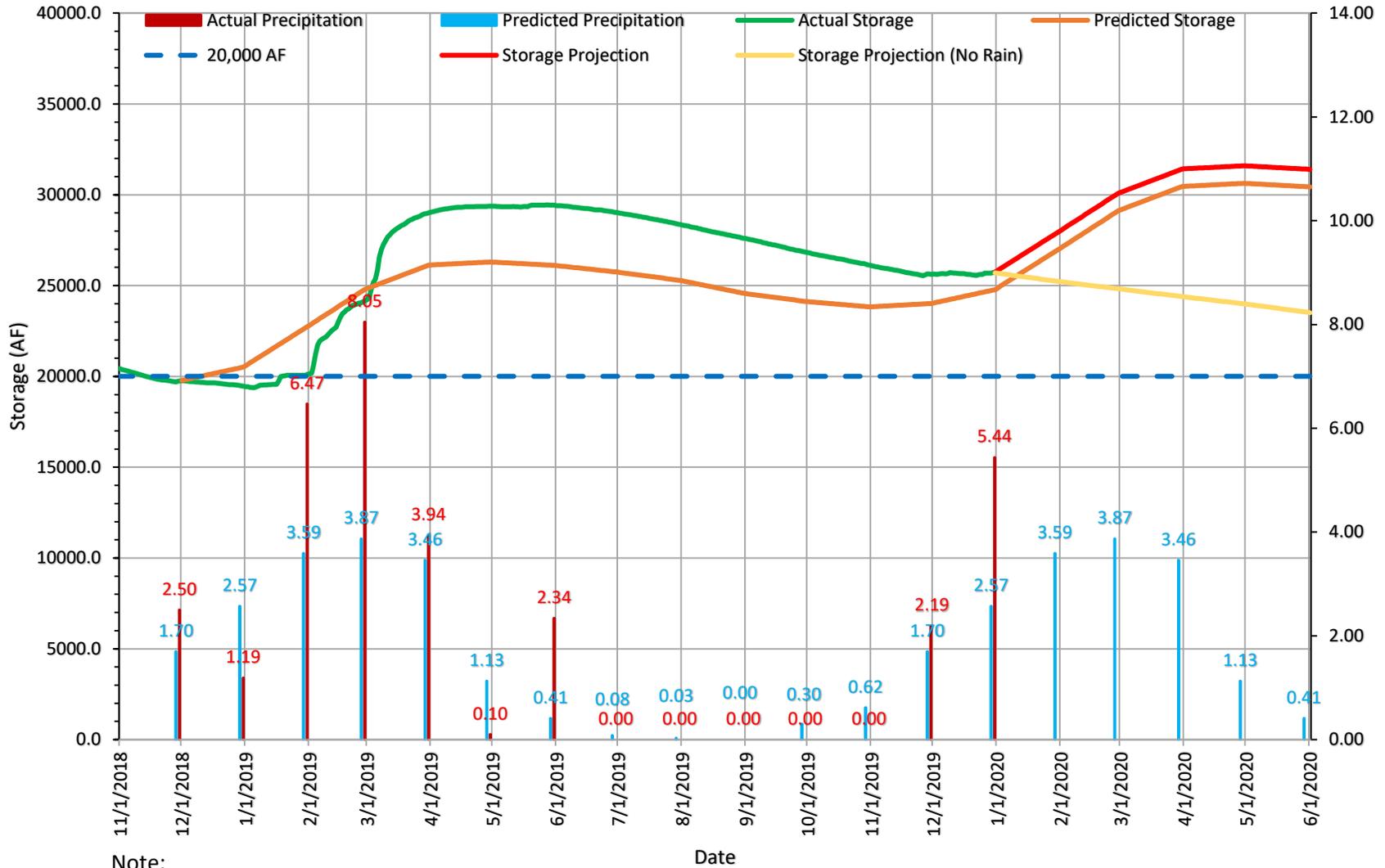
ZONE 3 - LOPEZ PROJECT
ADVISORY AND TECHNICAL ADVISORY COMMITTEES
2020 MEETING SCHEDULE

Date	Group	Location¹	Purpose
Jan 8, 2020	TAC ²	Arroyo Grande, 9:00 AM	Discuss proposed FY 20/21 budget
Jan 16, 2020	Advisory Committee	Grover Beach, 6:30 PM	Distribute proposed FY 20/21 budget
Feb 5, 2020	TAC	Arroyo Grande, 9:00 AM	Distribute proposed FY 20/21 budget
Mar 11, 2020	TAC	Arroyo Grande, 9:00 AM	Budget discussion/recommendation; present estimated surplus water quantity available in 20/21
Mar 19, 2020	Advisory Committee	Arroyo Grande, 6:30 PM	Present 2 nd quarter FY 19/20 budget status; present proposed FY20/21 budget; endorse FY20/21 budget; present estimated surplus water quantity available in WY 20/21
Apr 8, 2020	TAC	Arroyo Grande, 9:00 AM	Present actual surplus water quantity available in WY 20/21
May 13, 2020	TAC	Arroyo Grande, 9:00 AM	
May 21, 2020	Advisory Committee	Pismo Beach, 6:30 PM	3 rd Quarter Budget Status
Jun 10, 2020	TAC	Arroyo Grande, 9:00 AM	
Jul 8, 2020	TAC	Arroyo Grande, 9:00 AM	
Jul 16, 2020	Advisory Committee	Oceano CSD, 6:30 PM	Officer Rotations
Aug 12, 2020	TAC	Arroyo Grande, 9:00AM	
Sep 9, 2020	TAC	Arroyo Grande, 9:00 AM	Request Water Delivery Schedule - due Oct 1
Sep 17, 2020	Advisory Committee	Grover Beach, 6:30 PM	4 th Quarter Budget Status
Oct 14, 2020	TAC	Arroyo Grande, 9:00 AM	
Nov 4, 2020	TAC	Arroyo Grande, 9:00 AM	Discuss proposed CIP projects for next FY
Nov 12, 2020	Advisory Committee	Arroyo Grande, 6:30 PM	1 st Quarter Budget Status
Dec 9, 2020	TAC	Arroyo Grande, 9:00 AM	Distribute Water Delivery Schedule by Jan 1

¹ All locations noted are at City Hall or Oceano Community Services District Board Chambers unless otherwise noted

² TAC - Technical Advisory Committee

LOPEZ RESERVOIR STORAGE PROJECTION



Note:

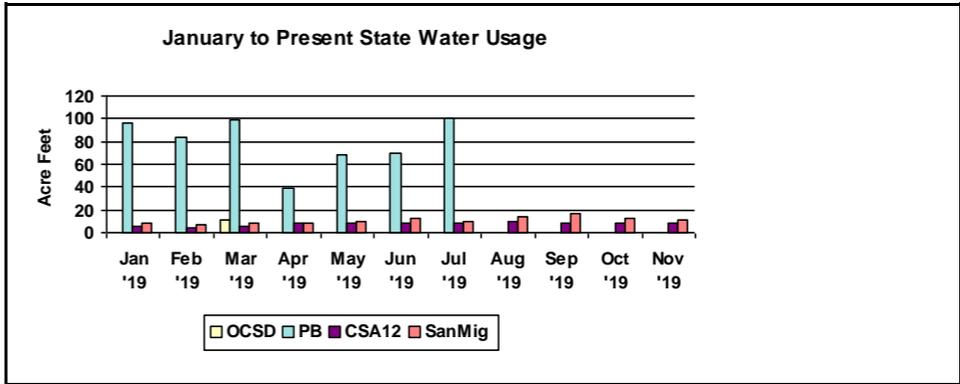
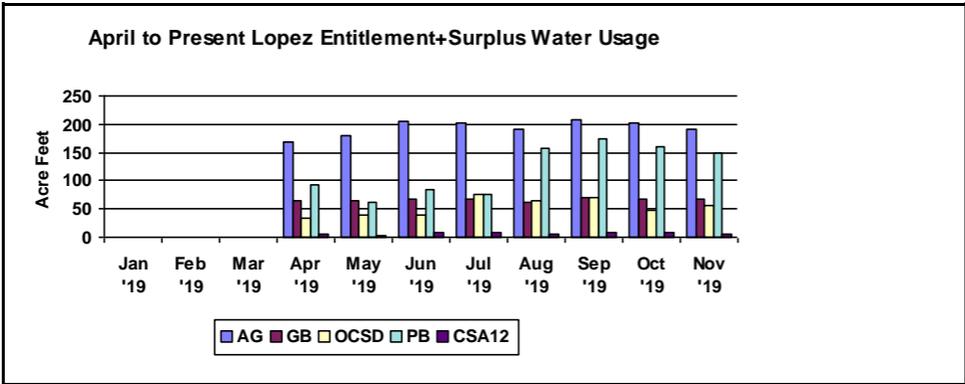
- Storage projection is based on predicted rainfall from longrangeweather.com, historic inflow based on predicted rainfall, 18-19 downstream release requests, and municipal usage.

San Luis Obispo County Flood Control and Water District

Zone 3 - Lopez Project - Monthly Operations Report

November, 2019

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	378.00	0.00	2668.00	191.54	8.4%	0.00	0.0%	1547.70	67.6%	0.00	0.0%	1547.70	67.6%									191.54	
Oceano CSD	303	50.00	400.00	353.00	0.00	0.0%	57.25	14.3%	303.00	100.0%	125.13	31.3%	428.13	60.9%	227	0.00	0.0%				10.98	4.8%		57.25
Grover Beach	800	132.00	20.00	932.00	67.32	8.4%	0.00	0.0%	528.74	66.1%	0.00	0.0%	528.74	64.5%									67.32	
Pismo Beach	892	147.00	200.00	1039.00	86.91	9.7%	62.59	31.3%	892.00	100.0%	62.59	31.3%	954.59	87.4%	1120	0.00	0.0%				555.55	49.6%		149.5
CSA 12	245	40.00	0.00	285.00	6.09	2.5%	0.00	0.0%	55.72	22.7%	0.00	0.0%	55.72	22.7%	27	8.35	30.9%				83.62	309.7%		14.44
San Miguelito															127	10.47	8.2%				116.86	92.0%		10.47
Total	4530	747.00	620.00	5277.00	351.86	7.8%	119.84	19.3%	3327.16	73.4%	187.72	30.3%	3514.88	68.3%	1501	18.82	1.3%	26	7.18	767.01	51.1%	779.00		490.52
											Last Month Stored State Water			1392.33				This Month Stored State Water			1399.51			



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)	491.14		Difference (feet)	-31.23
Storage (full at 49200 acre feet)	25631		% Full	52.1%
Rainfall	2.59	2.59		
Downstream Release (4200 acre feet/year)	277.12	1799.59		
Spillage (acre feet)	0	0.00		

Comments: Available Surplus Water is shown and as designated per BOS May 14, 2019 Declaration of Surplus Water. Beginning with July report, Surplus water shown will be amount purchased by each agency.

1) Oceano supplied water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 1.94 AF delivered to Canyon Crest was added to Oceano's water usage this month and 1.94 AF was subtracted from Arroyo Grande's usage this month.

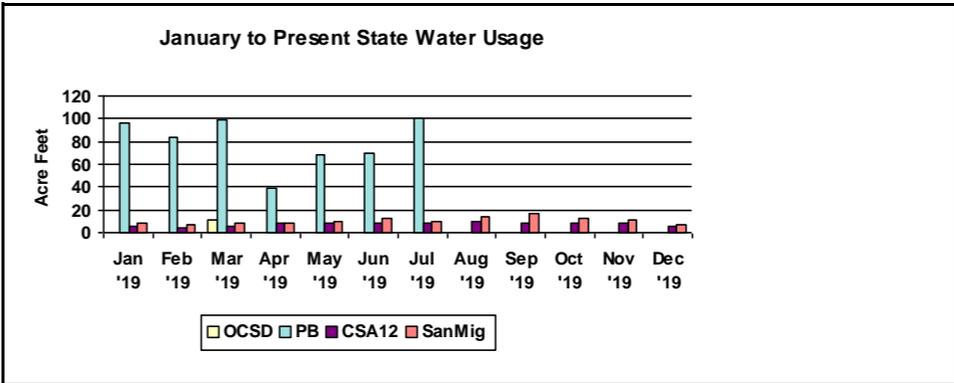
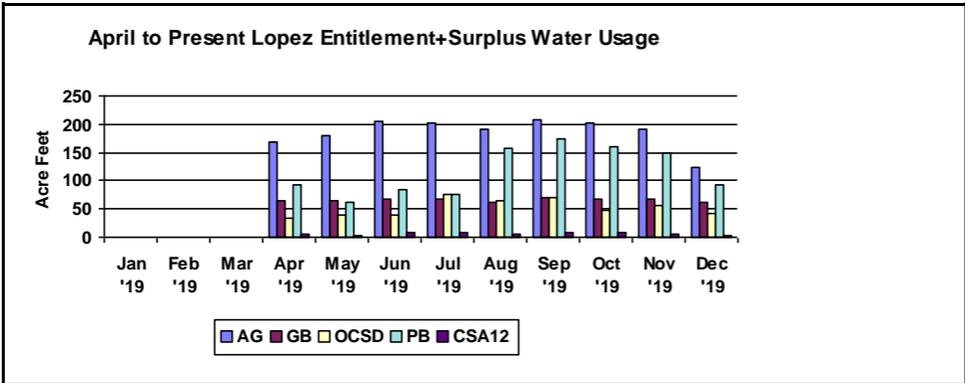
Surplus water calculations are based on "Surplus Requested" not "Surplus Water Declared"

San Luis Obispo County Flood Control and Water District

Zone 3 - Lopez Project - Monthly Operations Report

December, 2019

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	%												
Arroyo Grande	2290	378.00	0.00	2668.00	123.57	5.4%	0.00	0.0%	1671.27	73.0%	0.00	0.0%	1671.27	73.0%									123.57	
Oceano CSD	303	50.00	400.00	353.00	0.00	0.0%	43.13	10.8%	303.00	100.0%	168.26	42.1%	471.26	67.0%	227	0.00	0.0%				10.98	4.8%		43.13
Grover Beach	800	132.00	20.00	932.00	61.56	7.7%	0.00	0.0%	590.30	73.8%	0.00	0.0%	590.30	72.0%									61.56	
Pismo Beach	892	147.00	200.00	1039.00	0.00	0.0%	93.28	46.6%	892.00	100.0%	155.87	77.9%	1047.87	96.0%	1120	0.00	0.0%				555.55	49.6%		93.28
CSA 12	245	40.00	0.00	285.00	4.10	1.7%	0.00	0.0%	59.82	24.4%	0.00	0.0%	59.82	24.4%	27	5.75	21.3%				89.37	331.0%		9.85
San Miguelito															127	6.51	5.1%				123.37	97.1%		6.51
Total	4530	747.00	620.00	5277.00	189.23	4.2%	136.41	22.0%	3516.39	77.6%	324.13	52.3%	3840.52	74.6%	1501	12.26	0.8%	69	56.74	779.27	51.9%	848.00	337.90	
												Last Month Stored State Water			1399.51			This Month Stored State Water			1456.25			



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)		491.27	Difference (feet) -31.10 % Full 52.3%
Storage (full at 49200 acre feet)		25708	
Rainfall		5.77	8.36
Downstream Release (4200 acre feet/year)		86.6	1886.19
Spillage (acre feet)		0	0.00

Comments: Available Surplus Water is shown and as designated per BOS May 14, 2019 Declaration of Surplus Water. Beginning with July report, Surplus water shown will be amount purchased by each agency.

1) Oceano supplied water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 0.94 AF delivered to Canyon Crest was added to Oceano's water usage this month and 0.94 AF was subtracted from Arroyo Grande's usage this month.

Surplus water calculations are based on "Surplus Requested" not "Surplus Water Declared"



January 16, 2020

TO: Flood Control Zone 3 Advisory Committee
FROM: Dan Heimel, Water Systems Consulting, Inc.
VIA: Jill Ogren, Public Works -Utilities Division Senior Engineer
SUBJECT: Zone 3 Contract Change Update

Recommendation

It is recommended that the Advisory Committee (AC) receive an update on the current status of the Zone 3 Contract Change discussions.

Discussion

At the September 17, 2019 AC meeting, staff provided an overview of the Contract Change initiative and agreed to return to the AC with the results of the reservoir modeling. This staff report provides an update on the modeling results to help the Agencies better understand the potential benefits and impacts of incorporating storage provisions into the Contracts. For additional information on the Contract Changes, including background and objectives, please reference the September 2019 AC Staff Report.

Reservoir Modeling

The District is utilizing the Reservoir Operations Model (Reservoir Model), previously developed by the Habitat Conservation Plan (HCP) sub-consultants to evaluate different operating scenarios and develop estimates of reservoir storage, downstream releases and municipal diversions under potential future conditions.

Baseline Scenario

The Baseline Scenario is a scenario that represents how Lopez Reservoir operates under the current contracts, parameters and historical hydrology. These parameters are outlined in Table 1 below.

Storage Scenario

The Storage Scenario includes the same scenario parameters as the Baseline Scenario with the exception of allowing the individual Zone 3 agencies store water year over year and a change in the prioritization for how each of the agency utilizes the different water supplies in their portfolio. The specific parameters for the Storage Scenario are outlined in Table 1 **Error! Reference source not found..**

Table 1. Model Scenario Parameters

Scenario Parameters	Baseline Scenario (existing contracts)	Storage Scenario (proposed amendment)	Notes
1969 – 2018 Hydrology	✓	✓	
Interim Downstream Release Schedule (IDRS)	✓	✓	Downstream releases based off schedule outlined in IDRS Exhibit 1. Releases equal approximately 4,100 Acre Feet per Year
Supply Prioritized 2018 & 2035 Demands	✓ ¹	✓ ²	Demands based on 2018 water usage and also 2035 population projections ¹ Baseline model prioritizes use of Lopez, SWP, then Groundwater ² Storage model prioritizes use of SWP, Lopez, then Groundwater
Storage for Agencies		✓	Storage allows Zone 3 Agencies to retain their unused entitlement and their proportion of unreleased downstream releases. No storage limits, but spills account for agencies using more than their proportion of Lopez Reservoir storage.
Low Reservoir Response Plan (LRRP)			LRRP not applied to scenarios because not part of the existing contracts or the proposed contract changes.

Scenario Results Comparison

The Baseline Scenario and Storage Scenario results were compared to evaluate potential impacts that the proposed contract changes could have on reservoir operations. The impact analysis will inform the CEQA evaluation phase of the proposed contract changes.

The primary finding of the modeling results is a predicted increase in the amount of water in storage under the Storage Scenario compared to the Baseline Scenario, shown in Figure 1. With the incorporation of storage provisions, it is anticipated that the Agencies with State Water will prioritize use of their State Water Project supplies over Lopez Water to allow them to generate stored water in Lopez Reservoir as a water supply buffer for potential future drought conditions.

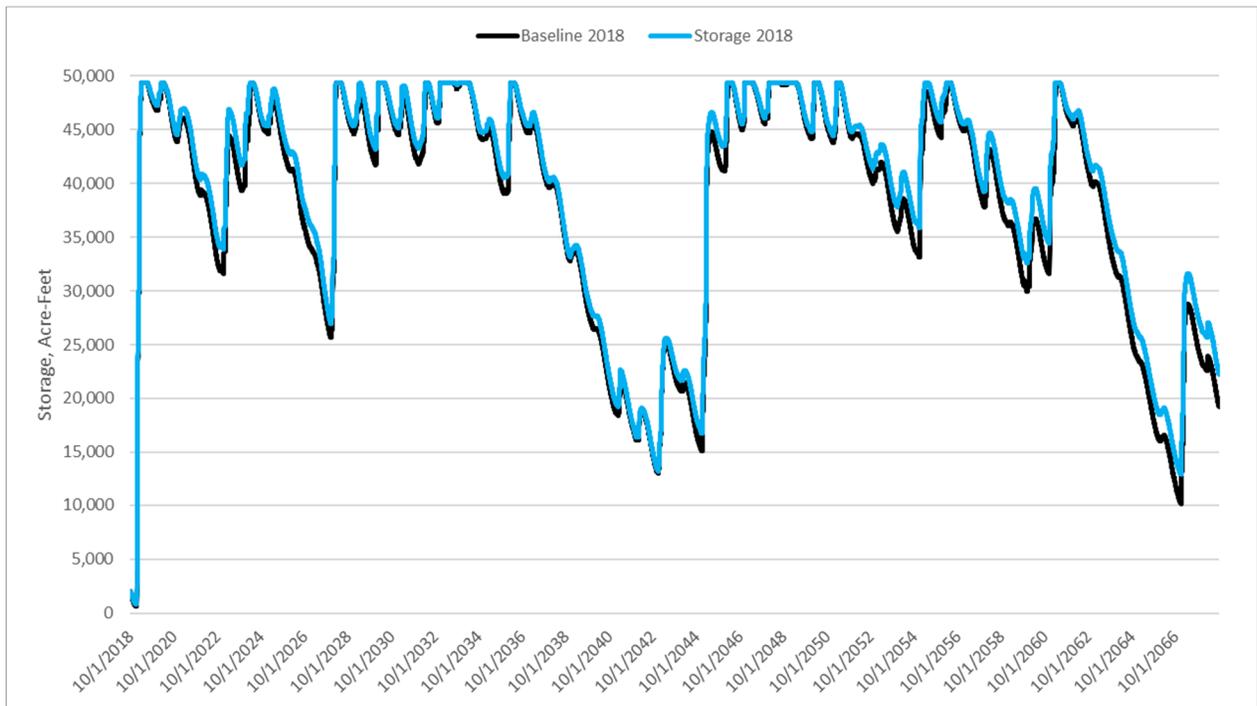


Figure 1. Storage Scenario Results

Contract Change Process Overview

The TAC is currently evaluating specific contract language changes that would be required to allow for the following:

- Allow for year-over-year individual agency storage (Article 4, 7, 8, 15, 21)
- Account for evaporation losses of stored water (Article 7)
- Allow District to reduce Entitlements or utilize Agencies' Stored Water to meet downstream release requirements (Article 4)
- Mechanisms to address scenario where Agencies that do not have water to contribute to downstream release obligations (Article 17)
- Clarify Lopez turnout delivery capacity limitations (Article 8)
- Remove antiquated language from the contract that is no longer relevant (Exhibit A)
- Allow the District to initiate exchanges to exchange Lopez Water with State Project Water during times when there is a curtailment of delivery of Lopez water due to Maintenance projects

Additionally, the County Environmental Staff is working with the TAC to evaluate the CEQA process that will be required to implement the contract changes. The next steps for the CEQA evaluation are outlined below:

- Prepare Project Description
 - Statement of objectives

- High level overview of proposed changes
- Analyze historical, baseline and storage scenarios
- Compare and quantify potential changes
- Evaluate potential mitigation measures to minimize impacts, if required
- Determine approach to CEQA compliance, including:
 - Exemption
 - Negative Declaration (ND)/Mitigated Negative Declaration (MND)
 - Environmental Impact Report (EIR)

Advisory Committee Next Steps

The next steps for the Advisory Committee will be to approve the TAC's suggested contract changes and approve initiating the CEQA Process. ***It is anticipated that Staff will return to obtain Advisory Committee approval of the above in March 2020.***

Zone 3 Contract Change Modeling Model Scenario Results January 16, 2020



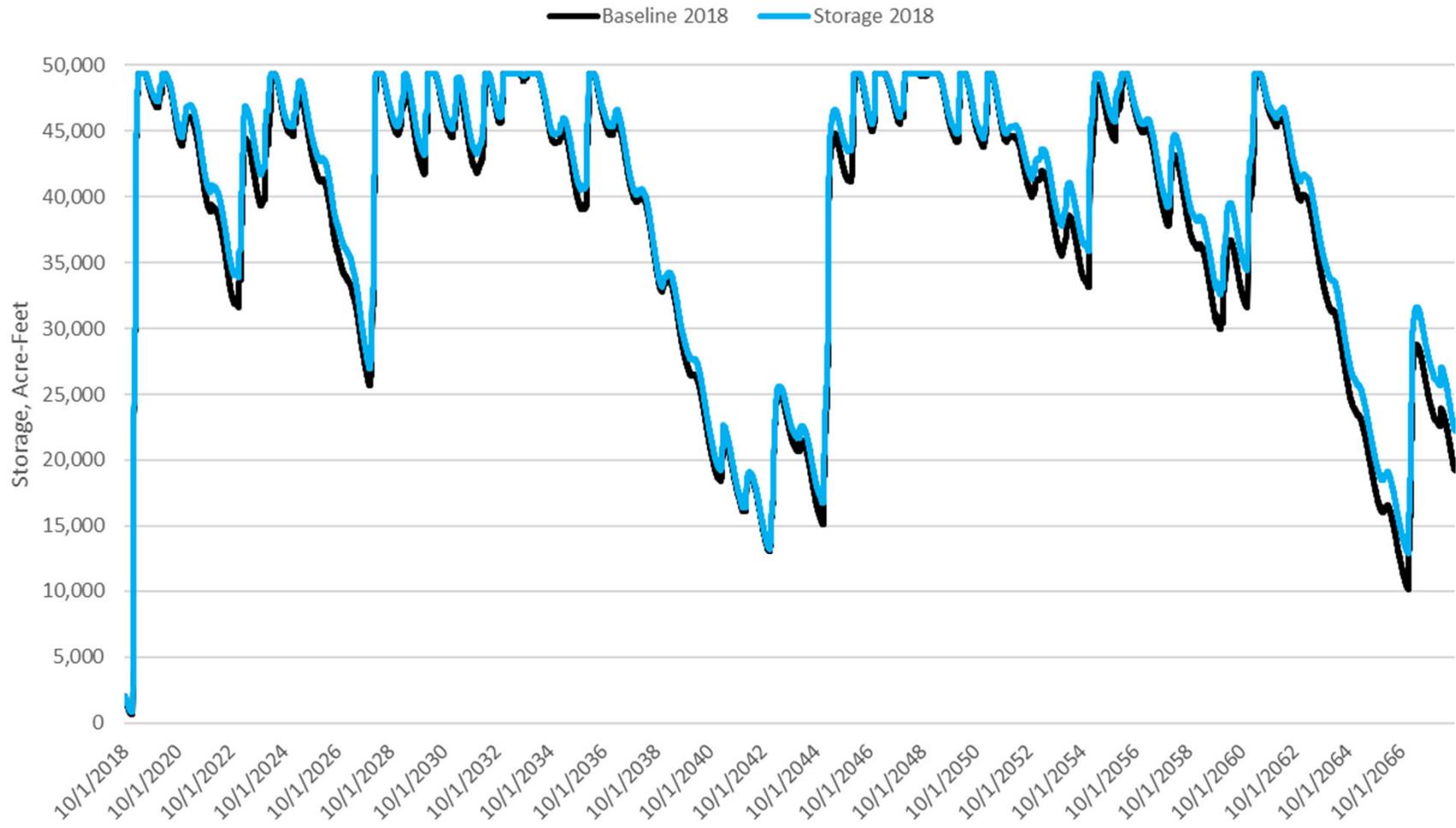
Contract Change Overview

Existing Contracts	Proposed Changes
<ul style="list-style-type: none"> Unreleased downstream releases and undelivered Entitlement becomes Surplus Water Surplus Water is made available to Agencies based on Entitlement percentages Agencies request Surplus Water at beginning of water year Entitlement water must be taken before Surplus Water can be taken Agencies have one year to use Surplus water, if unused it returns to District supplies 	<ul style="list-style-type: none"> Only unreleased downstream releases become Surplus water it is still made available to Agencies based on Entitlement percentages Unused Entitlement from an Agency can be stored and used by that Agency Agencies can store unused Entitlement and Surplus water or other water for unlimited time except... Stored Water is subject to losses from evaporation and spill
<p>Limitations:</p> <ul style="list-style-type: none"> Difficult for agencies to utilize Surplus Water Limited incentive for agencies to preserve Lopez Water supplies 	<p>Benefits:</p> <ul style="list-style-type: none"> Provides ability for each agency to store water for future drought Improves flexibility of multi-year water supply planning Provides incentive for agencies to preserve water in the reservoir

Storage Scenario Assumptions

Scenario Parameters	Baseline Operations (existing contracts)	Zone 3 Agency Storage (proposed amendment)	Notes
1969 – 2018 Hydrology	✓	✓	
Interim Downstream Release Schedule (IDRS)	✓	✓	Downstream releases mimic the IDRS. Releases equal approximately 4,100 AFY.
Supply Use Prioritized and 2018 & 2035 Demands assumed	✓ ¹	✓ ²	Agency Demands based on 2018 water usage and 2035 usage based on population projections ¹ Baseline prioritizes Lopez, SWP, then Groundwater supply usage ² Storage prioritizes SWP, Lopez, the Groundwater supply usage
Storage for Zone 3 Agencies		✓	Storage allows Zone 3 agencies to retain unused entitlement and proportion of unreleased downstream releases. No storage limits, but spills account for agencies using more than their proportion of Lopez Reservoir storage.
Low Reservoir Response Plan (LRRP)			LRRP not applied to scenarios.

Results – 2018 Storage Scenario



Key Findings of the Latest Modeling

- Storage provisions allow CSA 12, OCSD and Pismo Beach to generate Lopez Storage through prioritized delivery of their State Water Project Water
- Storage provisions provide mechanism for the other agencies to store water
- Downstream releases are not impacted by each of the scenarios

Zone 3 Contact Change Process Overview



Proposed Contract Revisions

- Individual agency storage (Article 4, 7, 8, 15, 21)
- Evaporation losses (Article 7)
- Address need to meet downstream release obligations (Article 4, 17)
- Spill provisions (Article 4, 7)
- Turnout delivery capacity limitations (Article 8)
- Remove antiquated language
- Delivery or storage of “Other Water” (Article 7)

CEQA Evaluation Steps

- Prepare Project Description
- Analyze historical, baseline and storage scenarios
- Compare and quantify potential changes
- Evaluate potential mitigation measures to minimize impacts, if required
- Determine approach to CEQA compliance
 - Exemption
 - Negative Declaration/MND
 - EIR



Questions?





ZONE 3 Lopez Project

San Luis Obispo County Flood Control and Water Conservation District

TO: Zone 3 Advisory Committee

FROM: David Spiegel, PE

DATE: January 16, 2020

SUBJECT: Zone 3 Projects Update

Project Updates:

- Spillway Assessment (No Change)
 - DSOD is reviewing assessments on a priority basis and will update the District on their progress
 - Geotechnical and structural testing will be scheduled following DSOD approval of assessment and recommendations
- Structural Assessment of Terminal Reservoir Dam (No Change)
 - The Consultant Yeh and Associates has been contracted to do the geotechnical work on the dam
 - The permit application has been submitted to DSOD
- Fault Zone Risk Assessment for Dam Left Abutment (No Change)
 - Received one quote at \$39,000.
- Lopez WTP Safety Upgrades (No Change)
 - Determining options for membrane building safety upgrades
- Domestic Tank Repairs ~\$15,000
 - Obtaining quotes
- Cathodic Protection Survey
 - Final Cathodic Protection Report is being reviewed
 - Develop scope/estimates/quotes for repairs
- Equipment Storage Building (No Change)
 - Scoping new location
 - One quote received, ~\$69,000.00 for the building



ZONE 3 Lopez Project

San Luis Obispo County Flood Control and Water Conservation District

Upcoming Projects:

- Terminal Dam Monument Survey
- Ammonia Analyzer #2
- Improved Boat Access

Completed Projects

- Lopez Dam and Terminal Dam Hazard Classification
 - DSOD approved the inundation maps
 - Approved maps and Emergency Action Plans sent to CAL OES
 - Distributed to all required parties
- Replaced Leach Field System at WTP
- Replaced sludge bed #1 underdrain system
- Rebuild membrane feed pump