

Groundwater Sustainability Commission
for the San Luis Obispo Valley Groundwater Basin

NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that the Groundwater Sustainability Commission will hold a **Regular Meeting at 3:00 P.M. on Wednesday, March 31, 2021**. Based on the threat of COVID-19 as reflected in the Proclamations of Emergency issued by both the Governor of the State of California and the San Luis Obispo County Emergency Services Director, as well as the Governor's Executive Order N-29-20 issued on March 17, 2020 relating to the convening of public meetings in response to the COVID-19 pandemic, this meeting will be conducted as a phone-in/web-based meeting only. There will be no physical meeting location for this GSC Meeting. Members of the public can participate via phone or by logging into the web-based meeting.

TO JOIN THE MEETING FROM YOUR COMPUTER, TABLET OR SMARTPHONE, GO TO:

<https://zoom.us/j/97701529442?pwd=akdIVGFnakZ3U0xxcmNjYWh6ZkZTUT09>

Passcode: 412564

(This link will help connect both your browser and telephone to the call)

YOU CAN ALSO DIAL IN USING YOUR PHONE:

Dial: +1 669 900 6833

Meeting ID: 977 0152 9442

Passcode: 412564

All persons desiring to speak during any Public Comment can submit a comment by:

- Email at dtzou@co.slo.ca.us by 5:00 PM on the day prior to the Commission meeting
- Teleconference meeting at link or phone number above
- Mail by 5:00 PM on the day prior to the Commission meeting to:
County of San Luis Obispo Department of Public Works
Attn: Dick Tzou
County Government Center, Room 206
San Luis Obispo, CA 93408
- Additional information on how to submit Public Comment is provided on page 3 of this Agenda

NOTE: The Groundwater Sustainability Commission reserves the right to limit each speaker to three (3) minutes per subject or topic. In compliance with the Americans with Disabilities Act and Executive Order N-29-20, all possible accommodations will be made for individuals with disabilities, so they may participate in the meeting. Persons who require accommodation for any audio, visual or other disability in order to participate in the meeting of the GSC are encouraged to request such accommodation 48 hours in advance of the meeting from Joey Steil at (805) 781-5252.

GROUNDWATER SUSTAINABILITY COMMISSION AGENDA

Dawn Ortiz-Legg , Member, County of San Luis Obispo	Bruce Gibson , Alternate, County of San Luis Obispo
Bob Schiebelhut , Chair, EVGMWC	George Donati , Alternate, EVGMWC
Dennis Fernandez , Member, ERMWC/VRMWC	James Lokey , Alternate, ERMWC/VRMWC
Mark Zimmer , Vice Chair, GSWC	Toby Moore , Alternate, GSWC
Andy Pease , Member, City of San Luis Obispo	Aaron Floyd , Alternate, City of San Luis Obispo

-
1. **Call to Order** (Chair)
 2. **Roll Call** (City Staff: Mychal Boerman)
 3. **Pledge of Allegiance** (Chair)
 4. **Public Comment – Items not on Agenda** (Chair)

- 5. Approval of Meeting Minutes (Chair) 3:05 p.m. - 3:10 p.m. (5 mins)**
 - a) Feb 17 and March 1, 2021
- 6. Responses to Comments Received on GSP Chapters 1-7 (County Staff: Dick Tzou and WSC Consultant Team: Dave O'Rourke) 3:10 p.m. - 3:20 p.m. (10 mins)**
 - a) Discussions on responses to comments on GSP Chapter 7 and other chapters.
- 7. SLO County State Water Project Update (County Staff: Courtney Howard) 3:20 p.m. - 3:40 p.m. (20 mins)**
 - a) Receive a presentation discussing the SLO County State Water Project concepts for the SLO Basin.
- 8. Integrated Model Preliminary Results and Sustainable Management Criteria (WSC Consultant Team: Dave O'Rourke, Dan Heimel, and Michael Cruikshank) 3:40 p.m. - 4:55 p.m. (75 mins)**
 - a) Receive a presentation on the preliminary model results of the proposed projects to achieve sustainability based on the recommended sustainable management criteria.
 - Baseline Model Run
 - Supplemental Water to GSWC and MWC
 - Agricultural Pumping Reductions
 - Recharge Projects
 - Recommended SMC's
- 9. Future Items (Chair) 4:55 p.m. - 5:00 p.m. (5 mins)**
 - a) GSC Meeting – April 7, 2021 (if needed)
 - b) Draft Chapter 8 – Sustainable Management Criteria
 - c) Draft Chapter 9 – Projects and Management Actions
 - d) Draft Surface Water/Groundwater Modeling Calibration Technical Memorandum
- 10. Next Regular Meeting: April 7, 2021 (if needed)**
- 11. Adjourn (Chair)**

Groundwater Sustainability Commission
for the San Luis Obispo Valley Groundwater Basin

NOTICE OF MEETING

CONFERENCE CALL/WEBINAR ONLY

Wednesday, March 31, 2021 at 3:00 p.m.

Important Notice Regarding COVID-19 Based on guidance from the California Department of Public Health and the California Governor's Officer, in order to minimize the spread of the COVID-19 virus, please note the following:

1. The meeting will only be held telephonically and via internet via the number and website link information provided on the agenda. After each item is presented, Commission Members will have the opportunity to ask questions. Participants on the phone will then be provided an opportunity to speak for 3 minutes as public comment prior to Commission deliberations and/or actions or moving on to the next item. The chat function on the webinar may also be used to submit comments and ask questions and will be verbalized by staff during the public comment period for each item. How to use the chat function will be demonstrated at the beginning of the meeting.
2. The Commission's agenda and staff reports are available at the following website:
<https://www.slowaterbasin.com>
3. If you choose not to participate in the meeting and wish to make a written comment on any matter within the Commission's subject matter jurisdiction, regardless of whether it is on the agenda for the Commission's consideration or action, please submit your comment via email or U.S. Mail by 5:00 p.m. on the Tuesday prior to the Committee meeting. Please submit your comment to Dick Tzou at dtzou@co.slo.ca.us. Your comment will be placed into the administrative record of the meeting.

Mailing Address:

County of San Luis Obispo Department of Public Works

Attn: Dick Tzou

County Government Center, Room 206

San Luis Obispo, CA 93408

4. If you choose not to participate in the meeting and wish to submit verbal comment, please call (805) 781-5252 and ask for Dick Tzou. If leaving a message, state and spell your name, mention the agenda item number you are calling about and leave your comment. The verbal comments must be received by no later than 9:00 a.m. on the morning of the noticed meeting and will be limited to 3 minutes. Every effort will be made to include your comment into the record, but some comments may not be included due to time limitations.

NOTE: The Groundwater Sustainability Commission reserves the right to limit each speaker to three (3) minutes per subject or topic. In compliance with the Americans with Disabilities Act and Executive Order N-29-20, all possible accommodations will be made for individuals with disabilities, so they may participate in the meeting. Persons who require accommodation for any audio, visual or other disability in order to participate in the meeting of the GSC are encouraged to request such accommodation 48 hours in advance of the meeting from Joey Steil at (805) 781-5252.

Groundwater Sustainability Commission
Regular Meeting Minutes (DRAFT)
February 17th , 2021

^T
The following members or alternates were present:

- Bob Schiebelhut**, Chair, EVGMWC
- Mark Zimmer**, Vice Chair, GSWC
- Dawn Ortiz-Legg** Member, County of San Luis Obispo
- Dennis Fernandez**, Member, ERMWC/VRMWC
- Andy Pease**, Member, City of San Luis Obispo

1. Call to Order	Chair Schiebelhut: calls the meeting to order at 3:35 PM.																														
2. Roll Call	City Staff, Mychal Boerman: calls roll.																														
3. Pledge of Allegiance	Chair Schiebelhut: leads the Pledge of Allegiance.																														
4. Public Comment – Items not on Agenda	Chair Schiebelhut: opens the floor for public comment; there is none.																														
5. Approval of Meeting Minutes a) December 9 th , 2020	<p><i>Meeting materials and audio for this item can be accessed by visiting: https://www.slowaterbasin.com/resources</i></p> <p>Chair Schiebelhut: opens discussion for Agenda Item 5 - Approval of Meeting Minutes for the December 9th, 2020 Groundwater Sustainability Commission Meeting and asks for comments from the Commission.</p> <p>Member Pease: suggests replacing the word “accelerate” with the word “expand” to clarify the intent of the discussion regarding scheduling additional GSC meetings for 2021 during item 11.</p> <p>Motion By: Chair Schiebelhut Second By: Member Fernandez Motion: The Commission moves to approve the December 9th, 2020 Meeting Minutes with the removal of the word “accelerate” and replacing it with the word “expand”.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Members</th> <th style="text-align: center;">Ayes</th> <th style="text-align: center;">Noes</th> <th style="text-align: center;">Abstain</th> <th style="text-align: center;">Recuse</th> </tr> </thead> <tbody> <tr> <td>Bob Schiebelhut (Chair)</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mark Zimmer (Vice Chair)</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dawn Ortiz-Legg (Member)</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Andy Pease (Member)</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dennis Fernandez (Member)</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Members	Ayes	Noes	Abstain	Recuse	Bob Schiebelhut (Chair)	X				Mark Zimmer (Vice Chair)	X				Dawn Ortiz-Legg (Member)	X				Andy Pease (Member)	X				Dennis Fernandez (Member)	X			
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6. Discussion of Received Comments on Previous Draft GSP Chapters.	<p><i>Meeting materials and audio for this item can be accessed by visiting: https://www.slowaterbasin.com/resources</i></p> <p>County Staff, Dick Tzou: discusses the comments that have been received on draft GSP chapter 7 – Monitoring Network.</p>																														

Groundwater Sustainability Commission
Regular Meeting Minutes (DRAFT)
February 17th , 2021

	<p><u>Discussion Summary</u></p> <ul style="list-style-type: none"> • Chair Schiebelhut: comments on the assumption of climate change and the impact on levels of precipitation and evaporation for the central coast area, citing a state issued climate change assessment from 2018 that runs climate models. • Alternate Member Gibson: comments that information on the referenced climate models is available online and speaks to how the models are averaged to predict precipitation. • Project Consultant, Dave O’Rourke: comments on a state mandate that requires running a climate change model through 2070, adding that the results will be presented at an upcoming GSC meeting. • Member Ortiz-Legg: asks how responses to public comments are being addressed. • County Staff, Dick Tzou: replies that all public comments will receive individual responses, and that all public comments will be posted for public review. <p>Chair Schiebelhut: opens the floor for public comment; there is none.</p>																														
<p>7. Integrated Model Calibration and Preliminary Model Results</p>	<p><i>Meeting materials and audio for this item can be accessed by visiting: https://www.slowaterbasin.com/resources</i></p> <p>Project Consultant, Dave O’Rourke: presents on the Integrated Groundwater Surface Model, model calibration, and the preliminary model results.</p> <p><u>Discussion Summary</u> Commission Members and staff discuss:</p> <ul style="list-style-type: none"> • Model runs and implementation timelines, takeaways regarding long-term declining water levels and storage trends, the peer-reviewed technical memorandum on model calibration which will be posted for review once completed, and changes to the water budget and pumping estimates. <p>Motion By: Member Ortiz-Legg Second By: Chair Schiebelhut Motion: The Commission moves to receive and file the presentation on the Integrated Model Calibration and Preliminary Model Results.</p> <table border="1" data-bbox="537 1656 1495 1885"> <thead> <tr> <th>Members</th> <th>Ayes</th> <th>Noes</th> <th>Abstain</th> <th>Recuse</th> </tr> </thead> <tbody> <tr> <td>Bob Schiebelhut (Chair)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mark Zimmer (Vice Chair)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dawn Ortiz-Legg (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Andy Pease (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dennis Fernandez (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Members	Ayes	Noes	Abstain	Recuse	Bob Schiebelhut (Chair)	X				Mark Zimmer (Vice Chair)	X				Dawn Ortiz-Legg (Member)	X				Andy Pease (Member)	X				Dennis Fernandez (Member)	X			
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February 17th , 2021

8. Availability of the City of San Luis Obispo’s Recycled Water

Meeting materials and audio for this item can be accessed by visiting:
<https://www.slowaterbasin.com/resources>

City Staff, Mychal Boerman: presents on the City of San Luis Obispo’s recycled water availability and limitations.

Discussion Summary

Commission Members and staff discuss:

- Cal Poly’s Master Plan Development and extension and the potential effects on the City’s Water Resource Recovery Facility (WRRF).
- Recycled water supply, use, distribution, permitting, timing, constraints, seasonal availability, beneficial use, discharge, and estimates of population growth and expansion.
- Water resiliency and conveying other sources of potable water through the City’s infrastructure.

Chair Schiebelhut: opens the floor for public comment.

Jean-Pierre Wolff: speaks.

Motion By: Member Fernandez

Second By: Member Pease

Motion: The Commission moves to receive and file the City of San Luis Obispo’s presentation on recycled water availability and limitations.

Members	Ayes	Noes	Abstain	Recuse
Bob Schiebelhut (Chair)	X			
Mark Zimmer (Vice Chair)	X			
Dawn Ortiz-Legg (Member)	X			
Andy Pease (Member)	X			
Dennis Fernandez (Member)	X			

9. Projects and Management Actions

Meeting materials for this item can be accessed by visiting:
<https://www.slowaterbasin.com/resources>

Project Consultants, Michael Cruikshank and Dan Heimele: present on concept level projects and management actions and draft project evaluation criteria to achieve sustainability.

Discussion Summary

Commission Members and staff discuss:

- Rankings, scoring, benefits, and timing of concept level projects.
- Assumptions and feasibility of the State Water Project.
- The potential for combining projects with common sources of water and reevaluating the scoring analysis.

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- The potential for potable water delivery from the City of San Luis Obispo.
- The potential for desalinated water delivery from Diablo Canyon and associated costs.
- The County’s upcoming Board of Supervisors item to consider the water management tools amendment and staff’s upcoming presentation to the GSC.

Member Pease: confirms the intent of the March 1st GSC meeting to continue the discussion on projects and management actions; recommends continuing the item at that time and to include agendized time estimates for future items.

Motion By: Member Pease
Second By: Vice Chair Zimmer

Motion: The Commission moves to continue the projects and management actions item during the March 1st GSC meeting.

Members	Ayes	Noes	Abstain	Recuse
Bob Schiebelhut (Chair)	X			
Mark Zimmer (Vice Chair)	X			
Dawn Ortiz-Legg (Member)	X			
Andy Pease (Member)	X			
Dennis Fernandez (Member)	X			

10. Proposed 2021 GSC Meeting Schedule

Meeting materials and audio for this item can be accessed by visiting:
<https://www.slowaterbasin.com/resources>

2021 proposed GSC meeting schedule:

- March 31st at 3:00 p.m.
- April 7th at 3:00 p.m.
- May 5th at 3:00 p.m.
- June 16th at 3:00 p.m.
- August 11th at 3:00 p.m.
- October 6th at 3:00 p.m.

Motion By: Member Pease
Second By: Member Ortiz-Legg

Motion: The Commission moves to approve of the proposed GSC meeting schedule for 2021.

Members	Ayes	Noes	Abstain	Recuse
Bob Schiebelhut (Chair)	X			
Mark Zimmer (Vice Chair)	X			
Dawn Ortiz-Legg (Member)	X			
Andy Pease (Member)	X			
Dennis Fernandez (Member)	X			

**Groundwater Sustainability Commission
Regular Meeting Minutes (DRAFT)
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11. Future Items	<ul style="list-style-type: none"> • GSC Meeting – March 1st, 2021 at 3:00 p.m. • Draft Chapter 8 – Sustainable Management Criteria • Chapter 9 – Projects and Management Actions • Draft Surface Water/Groundwater Modeling Calibration Technical Memorandum 																														
12. Next Regular Meeting	Next regular meeting to be held on March 1 st , 2021 at 3:00 p.m.																														
13. Adjourn	<p>Motion By: Member Pease Second By: Member Ortiz-Legg Motion: The Commission moves to adjourn the meeting at 6:05 PM</p> <table border="1" data-bbox="537 663 1495 898"> <thead> <tr> <th>Members</th> <th>Ayes</th> <th>Noes</th> <th>Abstain</th> <th>Recuse</th> </tr> </thead> <tbody> <tr> <td>Bob Schiebelhut (Chair)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mark Zimmer (Vice Chair)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dawn Ortiz-Legg (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Andy Pease (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dennis Fernandez (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Members	Ayes	Noes	Abstain	Recuse	Bob Schiebelhut (Chair)	X				Mark Zimmer (Vice Chair)	X				Dawn Ortiz-Legg (Member)	X				Andy Pease (Member)	X				Dennis Fernandez (Member)	X			
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DRAFTED BY: City Staff, Hayley Sabatini
County Staff, Joey Steil

DRAFT

Groundwater Sustainability Commission
Regular Meeting Minutes (DRAFT)
March 1st, 2021

The following members or alternates were present:

- Bob Schiebelhut**, Chair, EVGMWC
- Mark Zimmer**, Vice Chair, GSWC
- Dawn Ortiz-Legg** Member, County of San Luis Obispo
- Dennis Fernandez**, Member, ERMWC/VRMWC
- Andy Pease**, Member, City of San Luis Obispo

1. Call to Order	Chair Schiebelhut: calls the meeting to order at 3:35 PM.
2. Roll Call	City Staff, Mychal Boerman: calls roll.
3. Pledge of Allegiance	Chair Schiebelhut: leads the Pledge of Allegiance.
4. Public Comment – Items not on Agenda	Chair Schiebelhut: opens the floor for public comment; there is none.
5. Continued Item from (February 17th, 2021) on Projects and Management Actions	<p><i>Meeting materials and audio for this item can be accessed by visiting: https://www.slowaterbasin.com/resources</i></p> <p>Project Consultants, Michael Cruikshank and Dan Heimel: present on the continued item from the February 17th GSC meeting on concept level projects and management actions and draft project evaluation criteria to achieve sustainability.</p> <p><u>Discussion Summary:</u> Commission Members and staff discuss:</p> <ul style="list-style-type: none"> • The process of ranking, categorizing, evaluating, and reevaluating project scores. • Grant funding opportunities and other mechanisms besides the GSP to pursue projects such as stormwater capture and recharge. • Quantity of State Water Project water available for potential recharge. • Considerations for capturing stormwater at peak volume, the physical recharge locations, the City of San Luis Obispo’s allocation of water from Nacimiento and the potential uses for any excess amounts, and the treatment and cost barriers related to using City or State potable water for recharge. • The intent and permissions needed for the proposed offsetting of Varian Ranch groundwater pumping through the direct delivery of groundwater from the Arroyo Grande Subbasin. <p>Chair Schiebelhut: opens the floor for public comment; there is none.</p> <p>Project Consultants, Michael Cruikshank and Dan Heimel: continue the presentation on concept level projects and management actions.</p>

Groundwater Sustainability Commission
Regular Meeting Minutes (DRAFT)
March 1st, 2021

Discussion Summary:

Commission Members and staff discuss:

- Where State Water Project would be delivered to agricultural users, projects that would result in recharge of the basin, existing storage capacity for State Water Project, basin infiltration, and infrastructure to move water across the basin.
- State Water Project supply variability, treatment, costs, delivery, capacity, timing, use, and the water management tools amendment going to the County board of Supervisors on March 2nd; County Staff will come back to the GSC to present on State Water on March 31st.

Chair Schiebelhut: opens the floor for public comment.

Peter Orradre: speaks.

Project Consultants, Michael Cruikshank and Dan Heimel respond to public comments and continue the presentation on concept level projects and management actions.

Discussion Summary:

Commission Members and staff discuss:

- The available storage capacity of the basin, the amount of water that could be taken from the State Water Turnout, how the model can help evaluate capacity, and estimating State Water Project costs per acre foot.
- Future supply availability of produced water associated with operations from the Price Canyon oil field, costs associated with delivery of the discharged water, and the origin of water being used for steam injection during oil production activities.
- The authority to regulate or meter de minimis users, SGMA's definition of 2 AFY for domestic use, evaluating which users are considered to fall under the definition of de minimis use, and the metering of non de minimis production wells.
- The Ventura County Fox Canyon Water Market and if there are considerations for a similar program in the SLO Basin.

Chair Schiebelhut: opens the floor for public comment.

Peter Orradre: speaks.

Project Consultant, Dave O'Rourke: responds to public comments on storage capacity, references the water budget in Draft Chapter 6 and the expansion of the monitoring well network.

Motion By: Member Ortiz-Legg
Second By: Chair Schiebelhut

**Groundwater Sustainability Commission
Regular Meeting Minutes (DRAFT)
March 1st, 2021**

	<p>Motion: The Commission moves to receive and file the presentation on projects and management actions.</p> <table border="1" data-bbox="537 289 1495 520"> <thead> <tr> <th>Members</th> <th>Ayes</th> <th>Noes</th> <th>Abstain</th> <th>Recuse</th> </tr> </thead> <tbody> <tr> <td>Bob Schiebelhut (Chair)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mark Zimmer (Vice Chair)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dawn Ortiz-Legg (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Andy Pease (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dennis Fernandez (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Members	Ayes	Noes	Abstain	Recuse	Bob Schiebelhut (Chair)	X				Mark Zimmer (Vice Chair)	X				Dawn Ortiz-Legg (Member)	X				Andy Pease (Member)	X				Dennis Fernandez (Member)	X			
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<p>7. Next Regular Meeting</p>	<p>March 31, 2021 at 3:00 p.m. via Zoom</p>																														
<p>8. Adjourn</p>	<p>Motion By: Member Fernandez Second By: Vice Chair Zimmer Motion: The Commission moves to adjourn the meeting at 5:00 PM</p> <table border="1" data-bbox="537 1010 1495 1245"> <thead> <tr> <th>Members</th> <th>Ayes</th> <th>Noes</th> <th>Abstain</th> <th>Recuse</th> </tr> </thead> <tbody> <tr> <td>Bob Schiebelhut (Chair)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mark Zimmer (Vice Chair)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dawn Ortiz-Legg (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Andy Pease (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dennis Fernandez (Member)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Members	Ayes	Noes	Abstain	Recuse	Bob Schiebelhut (Chair)	X				Mark Zimmer (Vice Chair)	X				Dawn Ortiz-Legg (Member)	X				Andy Pease (Member)	X				Dennis Fernandez (Member)	X			
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DRAFTED BY: City Staff, Hayley Sabatini
County Staff, Joey Steil

GROUNDWATER SUSTAINABILITY COMMISSION
for the San Luis Obispo Valley Groundwater Basin

March 31, 2021

Agenda Item 6 –Responses to Comments Received on GSP Chapters 1-7
(Presentation Item)

Recommendation

- a) Discussions on responses to comments on GSP Chapter 7 and other chapters.

Prepared by

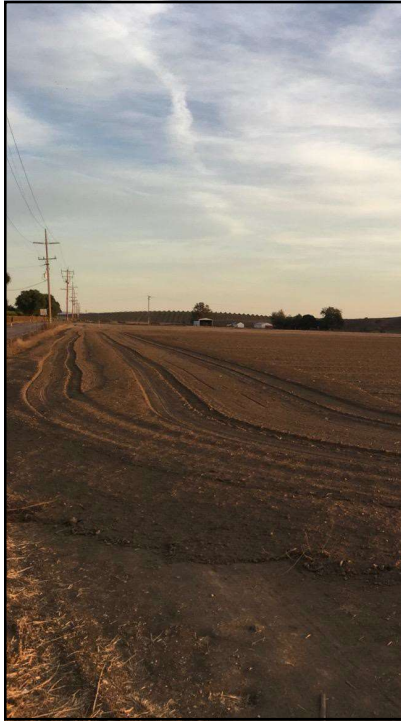
Dick Tzou, County of San Luis Obispo
Dave O'Rourke, GSI

Discussion

The purpose of this item is to open the floor for the GSC members and public to discuss any pertinent comments received for draft Chapter 7 – Monitoring Network and/or any previous chapters and their associated initial responses to them. The comment periods for draft GSP Chapter 7 closed on January 30, 2021. All comments received and their associated initial written responses are published online and may be viewed at: <https://www.slowaterbasin.com/review-documents>. Public or GSA comments received during each draft GSP chapter/section's comment period will be considered and appropriate responses will be included when sections are compiled into a complete public draft GSP document, slated for further public review in late summer of 2021 before it is finalized for adoption.

Attachments:

1. Written Responses to Comments (Chapters 1-7).



Response to Comments on GSP Chapters 1-7

Dick Tzou

RESPONSE TO COMMENTS ON GSP CHAPTERS 1-7



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Review of common comments on
Chapter 7 (Monitoring Network).

SLO Valley Basin Groundwater Sustainability (GSP) Public Comments

Last Updated: 03/25/21

Name	Comment Subject	Comment	Date/Time	Response
James Waldsmith	GSP Chapters 1 & 2 - DRAFT	Could you send me a copy of the presentations presented on 9-11-19 in PDF format? In reviewing the available download of chapters 1 and 2 I do not find any of the Hydrology data presented. Please confirm receipt of this communication.	9/14/2019 13:24	Yes.
Toby Moore	GSP Chapters 1 & 2 - DRAFT - Agency Information	Golden State Water Company is of the opinion that an advisory body, similar or with the same structure of the current Groundwater Sustainability Commission (GSC), may be beneficial and perhaps necessary for GSP implementation. The MOU establishing the GSC contemplates this and does have language stating the following, "Depending on the content of the GSP the Parties may decide to enter into a new agreement to coordinate implementation." Inclusion of this language in Section 2.3.2 is recommended. Please consider the addition of the following text before the last sentence in Section 2.3.2. "The Parties may decide to enter into a new agreement to coordinate GSP implementation."	10/31/2019 9:17	The text will be updated accordingly.
George Donati	SLO Basin GSP Chapters 3 & 4 - DRAFT	<p>3.1 SLO Basin Introduction - We need to include the history of the Edna Valley Basin. In the 1950's - 1960's the East branch of the Corral de Piedra creek was dammed to install a 500 acre foot reservoir. In the 1970's, this dam was raised for a 1000 acre foot reservoir. This dam removed all flow of water into the Edna Valley Basin as the water was used for crop irrigation outside of the Edna Valley Basin. The flow downstream of the dam is not properly managed by the owner of the dam and the state water board. This has greatly reduced the re-charge of the Edna Valley Basin for the past 50 years.</p> <p>3.4.1 Water Source Types - This states " Excluding the Edna Valley Golf Course, all water demand in the SLO Basin are met with groundwater" - This needs to be clarified. The Golf course uses ground water to irrigate the course, and the golf course sells groundwater water to Golden State Water Company for residential use.</p> <p>3.4.2 Water Use Sectors - Industrial - The ground water wells that supply water to the Price Canyon Oil Field are just outside of the basin boundary. Why are these wells not considered to use groundwater from the Edna Valley Basin since a natural flow from the creek passes adjacent to these wells?</p> <p>3.6.1.3 We are monitoring the flow of San Luis Obispo Creek as surface water leaves the San Luis Basin. Why not monitor the flow of the other major creeks, east and west Corral de Piedra at the edge of the Edna Valley Basin to determine the flow that is leaving the Basin? Or better yet, the flow that could be coming into the basin below the Dam on the East side of the valley.</p>	1/30/2020 8:10	<p>3.1 The Righetti Reservoir will be discussed in further detail in Chapter 6- Water Budget.</p> <p>3.4.1 Comment noted. The text will be updated to make the clarification.</p> <p>3.4.2 The Price Canyon oil Field wells are outside of the SLO Basin and not under the jurisdiction of the GSP.</p> <p>3.6.1.3 Comment noted. Chapter 7 Monitoring Network identifies the lack of a gage station on East and West Corral de Piedras as a data gap and recommends additional gages be installed and monitored as part of the Implementation Plan.</p>

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Toby Moore	Communication and Engagement Plan	Appendix B of the plan describes the Groundwater Communication Portal's functionality which includes a repository of comments provided by stakeholders. However, it does not indicate whether the comments submitted will be visible or available via other means for stakeholders to review. Currently there appears to not be such functionality. As a member of the Groundwater Sustainability Commission, I feel this functionality is helpful and would encourage its implementation.	8/29/2019 9:20	Noted. The comments will be posted to SLOWaterbasin.org at the conclusion of the public comment period associated with the Chapter or technical memorandum.
Sally Kruger	General Comments	Hi there, saw you on the GSP call yesterday and don't know if you know that we used to live on Righetti Road just down from the Righetti dam and had a creek (WCDPC) running through our property that used to have lots of steelhead in it. Unfortunately, between climate change, droughts and the dam, the steelhead have pretty much disappeared. I found yesterday's meeting to have a very interesting figure in it. The one that estimates a sustainable basin for the SLO Valley is estimated to be 5600 AF. The Righetti dam has State water right permits to hold back 991 AF. (The largest private reservoir in the State) Of course, their property and the dam are not within the boundaries of the watershed for which the plan is being developed. But I couldn't help but be astonished that the permits allow them almost 20% of the water needed to maintain the whole slo water basin and all the vineyards and ag as well as residents contained in it. I've spent a great deal of my time and energy working with Creeklands conservation, CDFW and SWRCB over the last 15 years to try to restore the water and the fish. I'm sure you would know as many of the city's projects have very long time lines. We now live in town, but I continue to work on "my" creek. Just some interesting info for you. Again, thanks, Sally	6/29/2020 12:53	Thank you for the information. The terms of the surface water diversion permit associated with Righetti Reservoir are under the purview of the State Water Board. To the extent that this process results in any additional water being released to West Corral de Piedras Creek, it will be beneficial to the basin.
Mark Capeli	SLO GSP Chapter 5 -- DRAFT - 5.8 Potential Groundwater Dependent Ecosystems	Enclosed with this letter are NOAA's National Marine Fisheries Service (NMFS) comments on Chapter 5: Groundwater Conditions of the San Luis Obispo Valley Groundwater Basin (SLO Valley Basin) Groundwater Sustainability Plan (GSP).	5/29/2020 14:59	1. Graphs #1, #3, and #4 do not include data for recent years. However, data from other wells in the vicinity and knowledge of groundwater use patterns in the SLO Creek Valley support our statement that no trends of declining groundwater storage is evident. The data gaps will be recognized. Ground surface elevation will be included on the graphs when finalized. 2. Page 24 Chapter 5 references areas identified by Stillwater Percolation Zone Study with "naturally high percolation potential that through management actions ...could enhance local groundwater supplies...". The management actions referenced would be recharge basins. The source of the

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				<p>recharge water is not indicated, and any diversions from the natural creek would be evaluated in light of potential effects on steelhead habitat.</p> <p>3. Comments were made regarding identification of GDEs based on a 30-foot depth to water. This is a desktop evaluation threshold based on TNC guidelines to identify potential GDE. Additional GDE field characterization is recommended in the monitoring plan for streams and creeks in the Basin. The TNC threshold is not specific to oaks, so that comment will be removed.</p> <p>4. If groundwater elevations have not declined below historical levels in the vicinity of a stream, as is the case along SLO Creek, this is an indicator that anthropogenic activities have not impacted stream conditions in this area. Additional stream corridor characterization and monitoring is recommended in Chapter 7, Monitoring Networks. Few wells have complete periods of record, but comparisons with nearby wells that span the gaps in POR, and knowledge of groundwater use patterns in the area, can illuminate the conditions along a stream corridor.</p>
Steph Wald	General Comments	<p>Ch 5 comments Thank you for the opportunity to comment on Chapter 5 Groundwater Conditions of the SLO Basin Groundwater Sustainability Plan. We previously provided comments dated January 7, 2018, in the earlier phases of the development of the SLO Valley Basin. Those comments provided direction on a framework for addressing Groundwater Dependent Ecosystems (GDE) under SGMA by The Nature Conservancy. Thank you for utilizing the framework and careful consideration of GDE's in Chapter 5. Regarding the integration of technical datasets on GDE's, Figure 5-15 identifies potential GDEs and that those identified are not yet verified. While a monitoring network for future planning efforts may verify GDEs through subsequent field reconnaissance, I would suggest that project development could be informed by having GDE verification sooner rather than later. If this is not possible, and there isn't enough data to label them unlikely GDE different language to label them might be appropriate such as less likely GDEs. Page 25, second paragraph, second sentence, add The Stillwater study identifies much of the drainage area of East and West Corral de Piedras Creeks, as well as</p>	6/1/2020 14:24	<p>Comment noted. Chapter 7 includes a recommendation for the GDE's to be further evaluated in the Implementation Phase of the GSP.</p>

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		area of alluvium of smaller streams to the southeast, as having high recharge potential. Thank you.		
Toby Moore	DRAFT_SLOGSP_Modeling_TM No.1.pdf - Section 5. MODFLOW: Groundwater Flow Model	In section 5.1.5 "Well Pumpage", the memo identifies that the model will estimate well extractions for all wells except those owned and used for "municipal pumpage by the City will be represented in the specific wells owned and operated by the City". Golden State Water Company (GSWC) also owns and operates a public water system (GSWC - Edna System) and their municipal well extractions are metered and should be inputs into the model as opposed to estimates. Suggested text: "CHG estimates of historical well pumpage developed for the water budget analysis will be incorporated into the historical calibration of the groundwater model. Municipal pumpage by the City and Golden State Water Company (GSWC) will be represented in the specific wells owned and operated by the City and GSWC, respectively."	6/15/2020 16:41	Metered pumpage for Golden State MWC, Edna Ranch MWC, and Varian Ranch MWC are included in the model. Text will be changed to reference all municipal supplies.

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Jean-Pierre Wolff	General Comments	<p>Dave, Sometime ago I mentioned to you that within the Edna Valley watershed there are several permitted reservoirs diverting surface water flow from the creeks flowing into the basin. As such these diversions impact the ecosystem and groundwater recharge through percolation. The largest of these privately owned reservoirs is the Righetti reservoir which in 1990 was granted a 4th SWRCB permit which nearly doubled the allowable capacity from 552 AF to 951 AF. The four permits are 20496, 15444, 14086 and 12887 West Corral de Piedra Creek. These permits are regularly reviewed by the SWRCB when expiring and part of the permit extension/renewal process includes an evaluation of potential impact on the downstream hydrology and ecosystem, in this case the threaded steelhead trout habitat is mentioned in previous studies and reports. Additionally, since the SLO Basin and Edna Valley is now a DWR designated high priority basin this additional information needs to be part of the record. When comparing and contrasting the annual basin recharge deficit versus upstream surface water diversion, the impact of a 951 AF reservoir and to a smaller extent the cumulative effect of other smaller reservoirs should not be ignored in the sustainability plan. As an example, the groundwater basin study being currently performed for the Arroyo Grande Basin does include the impact of Lopez Lake discharge flow rates for basin recharge and its ecosystem. I respectfully suggest that this consideration and evaluation be made part of the Sustainability Plan. Feel free to circulate my input to your colleagues collaborating on the work product. Regards, Jean-Pierre Wolff Ph.D. Grower and Vintner</p>	6/29/2020 12:56	<p>Our understanding of the permit is that 951 AFY is allowed as storage, while the remainder should pass through. The current permit relies on self-reporting of downstream flow releases by the dam operator. This is what is simulated in the model, in the absence of more specific data. The terms of the surface water diversion permit associated with Righetti Reservoir are under the purview of the State Water Board. To the extent that this process results in any additional water being released to West Corral de Piedras Creek, it will be beneficial to the basin.</p>
Howard Carroll	Draft_SLO_GSP_Chapter_6.pdf	<p>Groundwater Sustainability Plan SLO Basin have reviewed the exhibits and participated in your video presentations, but as a small farmer in the Edna Valley (25 acres) I do not possess the technical information nor the practical insight of my neighboring agricultural operations. Mr. George Donati, General Manager of Pacific Coast Farming, has farmed over two decades in the Edna Valley and during that period managed over 2,000 acres of irrigated crops. I value the science and broad overview of farming operations he brings to the group. Recently, I reviewed his comments to Chapter 6 and support his recommendations for investigation, analysis of points of conflict, clarification and study he has brought to your attention. With both the diversified population overlying the SLO Basin and the long-term impacts of the GSP, it becomes essential to devote time and resources to respond to questions and suggestions. Howard Carroll 2175 Biddle Ranch Road San Luis Obispo, CA 93401</p>	9/30/2020 12:40	<p>Comment noted. We also appreciate Mr. Donati's experience and contributions to help us try to clarify this difficult chapter.</p>

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Brent Burchett	Draft_SLO_GSP_Chapter_6.pdf — Part 1	<p>Certainly the preparation of this Chapter 6: Groundwater Budget is a complex task, and we remain willing to partner with staff and stakeholders in the SLO Basin to improve the current draft that is presented for comment. San Luis Obispo County Farm Bureau respectfully submits several suggestions and questions here for further discussion. We caution there is still insufficient data to paint a fully accurate picture of what is occurring in the Basin and what policies will actually achieve our mutual goal of achieving groundwater sustainability. Absent critical data that we all might wish existed, we should use a more robust monitoring network going forward to learn from actual outcomes of different management decisions across the Basin. Our groundwater challenges were not created overnight, and we have to be realistic about what we know is occurring, and what is simply our best guess today in 2020. This Groundwater Sustainability Plan will require long-term cooperation and open communication among the agriculture community, and the more realistic and forthright we can be about our current data strengths and weaknesses, the better we can find a path forward that works for everyone. The conclusion that the Edna Valley Subbasin is in 1,100 AFY overdraft is not fully supported by this document. We are disappointed that there appears to be a general presumption that over-pumping in Edna Valley is occurring and a partial narrative is presented here to support that presumption. For example, it is unclear why the Boyle analysis from 1991 is relied on for some areas but not in others.</p> <p>Look at Page 9, Table 6-2: Historical Water Budget -Edna Valley Subarea. This table is significant and will likely be a key reference point for the development of regulations for the Basin. Unfortunately, Table 6-2 currently suffers from a lack of data. We are concerned about the figures for precipitation versus stream inflows for 2010-2019. In 2011, 2016, 2017 and 2019, inflows are reported as less than outflows. This seems counter intuitive. It appears that there is only one stream for actual data for this period. It appears that a third of the years show stream outflows greater than inflows (1993, 1997, 2000, 2001, 2003, 2005, 2006, 2011, 2016 and 2019). All of these years except 2016 are wet or above-normal precipitation years. What factors might cause this difference between outflows and inflows, is it infiltration? Please explain how the of Precipitation figures were derived for Table 6-2.</p>	9/30/2020 18:35	<ol style="list-style-type: none"> 1. The 1100 AFY deficit value is supported by pumping estimates and water level trends. We relied on the Boyle Report for some historical data. 2. Table 6-2 Diversion of inflow to reservoir and basin runoff are the contributing factors. 3. Because all streams have increased watershed area in the downstream direction, it is not unreasonable to observe outflows exceeding inflows for wet years. In wet years the runoff from the basin contributes significantly to stream outflow. Outflow on SLO Creek may be greater due to WWTP effluent.

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Brent Burchett	Draft_SLO_GSP_Chapter_6.pdf — Part 2	<p>On Page 31, the use of Department of Water Resources assumptions on precipitation infiltration for the Arroyo Grande-Nipomo Mesa area of the Santa Maria groundwater Basin and reference to the Paso Robles groundwater Basin are troubling. Heavy clay soils (soils consisting of more than 50 percent clay) are the predominant soil type in the Edna Valley Subbasin. To use Arroyo Grande or Paso Robles average soil types (that are generally sandy or calcareous, respectively) to presume 11-13 inches of precipitation are required before percolation occurs into the Edna Valley is inaccurate. Another example of insufficient data is on the discussion of surface water diversions on Page 30. Reported annual surface water diversions ranged from 14 acre-feet to 900 acre-feet, with average annual diversion over the base period estimated at 350 acre-feet per year (AFY). What specific data points were used to derive this 350 AFY average? Was this data self-reported by the reservoir owner? This diversion is significant as it affects the largest stream coming into Edna Valley. The description on Page 22, Section 6.3.1 Historical Time Period, does not make sense. What was the basis for selecting certain years for groundwater storage calculations? The interval between those years is not consistent and excludes 2016. By excluding 2016, it suggests that the 2014 low point will not be the low point going forward, while an equally valid point could be made that the 2016-2019 trend indicates an upward trend in storage. If storage is increasing, is the Basin really in overdraft? On Page 49, Table 6-14, the exclusion of 2016 paints an inaccurate picture. If 2016 was included, the significant increase from 2016-2019 would be apparent, an increase that was likely due to greater rain coupled with conservation efforts. Since the SLO Subarea was stable from 2014-2016, the 5,970 acre-feet increase is in the Edna Subarea, probably rising from 10,000 acre-feet in 2016 to 105,630 in 2019. The absence of 2016 is problematic. On Page 26, Table 6-6: Land Cover Acreages, why are the totals for Irrigated Agriculture different than those presented in Table-5: Irrigated Agriculture Acreages? We look forward to continued dialogue with all of the stakeholders and appreciate consideration of our comments.</p>	9/30/2020 18:35	<p>1. These values are based on field studies by Blaney in Ventura County and the Lompoc Valley (less sandy conditions than the Nipomo Mesa), which were considered applicable by DWR and Fugro to central coast basins. We are making the same assumption.</p> <p>2. Yes, the self-reported diversions from 2010-2018 were correlated with precipitation. Reservoir evaporation was also factored in.</p> <p>3. The years selected for estimating storage using the specific yield method were to determine storage at the beginning and ending of the base period and to illustrate storage trends. This is mentioned on page 22. The specific years selected do not change the overall decline in storage over the base period or the estimated overdraft. Yes, 2016-2019 shows an upward trend in storage in the water budget, but this was also a wet period that followed a severe drought. Overdraft takes into account both wet and dry periods.</p> <p>Most of the annual diversion amount is from Righetti reservoir, which is self-reported.</p> <p>4. Including 2016 will not change the overall loss in storage over the base period, which is the main factor in overdraft. The water budget does show an increase in storage from 2016 to 2019.</p> <p>5. Table 6-6 and Table 5 Irrigated Agriculture Acreages are not different for years that appear in both tables.</p> <p>In much of Edna Valley, Fall 2015 was the low point in groundwater elevations.</p> <p>Water budget calculations and storage calculations were made for years which had the most robust data, and interpolated in between these years consistent with other observed trends,</p>

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				<p>Yes, there has been some recovery in the 2016-2019 period, but the evaluation is over the long term starting in 1987. Consistent declining water levels indicate Edna Valley is in overdraft.</p>
Howard Carroll	Workshop #3 Sustainable Goal Setting	<p>Sustainable Goal Setting Comments: I have reviewed the options for both the Minimum Thresholds (MT), the Measurable Objectives (MO) and the respective diagrams and charts. It appears some off the options are a step backwards in the management of our water. I endorse goals that will allow agricultural operations to continue in a sustainable envelop rather than force a reduction of agricultural operations when we are above the water levels in last year of the 2015 drought. Therefore, I support MT alternative #3 and MO alternative #4. I believe the long-term solution to the MT and MO of the Edna basin is by enhancing the water resources that are available. Importing recycled water from the City of San Luis Obispo, move the release point of reverse osmosis treated water from Sentinel Oil upstream and look carefully at the storage and releases of the Righetti Dam. Private and governmental cooperation could make these options a reality and really provide sustainability for our water basis.</p>	10/27/2020 16:00	<p>Your endorsements for the SMCs are noted. Two of the projects you mention (City recycled water and Sentinel Peak discharge as supplemental sources) will be included in the Projects and Management Actions chapter. The terms of the surface water diversion permit associated with Righetti Reservoir are under the purview of the State Water Board. To the extent that this process results in any additional water being released to West Corral de Piedras Creek, it will be beneficial to the basin.</p>

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Fintan du Fresne	Workshop #3 Sustainable Goal Setting	<p>Firstly, I greatly support efforts to collectively manage this very important resource. My background is in geology and I have been involved in grape growing the Edna Valley for 15 years now. As a geologist I have a deep concern with establishing thresholds and objectives on such a limited data set. Both the number of wells used and the limited length of most well data do not allow a scientifically rigorous record of the basin to be established. With this in mind, if MT and MO must be set to comply with SGMA, we should at this stage use those that allow the greatest flexibility: MT 3 and MO 4.</p>	10/30/2020 9:00	<p>Your comments on the proposed SMCs are noted. The period of record of available data is used in establishing SMCs, and this data will improve in the future with an expanded monitoring well network.</p>
Nathan Carlson	Workshop #3 Sustainable Goal Setting	<p>As the manager of an agricultural business within the Edna Valley, the sustainability and livelihoods of many of my employees, vendors, and business partners rest upon our ability to continue to operate and farm securely into the future. We operate several water wells to support our business, and have put in place best practices to preserve and conserve our water resources. Our farming operations have been certified under an audited Sustainability program since 2014, and our production process and facility have just this year attained a Sustainability certification as well only the fourth winery to achieve this level of certification. What I have learned from our process of continuous improvement is that in order to make good decisions, it is necessary to measure consistently and accurately over a long period of time, in order to understand trends and priorities. In the process of seeing the water budgets in development, I have concerns that not enough data has been collected to lock the basin into restrictions based on estimates and questionable data. For this reason, I would urge adoption of the Minimum Threshold alternative #3, and the Measurable Objective Alternative #3 for the time being. Together with collection of data over the first five years, we will have a stronger basis to enact future guidelines for the basin. What does make sense today is for our basin to seek supplemental water sources that have been identified, such as recovered water from the city of San Luis Obispo, and to pursue mandated releases from reservoirs that trap and deprive the basin of its natural recharge. Meanwhile, we and other users will continue to pursue strategies of water use reduction, reclamation and storage, and reduction of landscape and crop demands as replanting decisions are made.</p>	10/30/2020 11:18	<p>Water budget calculations and storage calculations were made for years which had the most robust data, and interpolated in between these years consistent with other observed trends.</p>

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Jeanne Blackwell	General Comments	<p>Can you really have a discussion about groundwater protection without recognizing the constant threat of over a million gallons a day of toxic, radioactive waste, man made chemicals, hydrogen sulfide to mention just a few that is deposited each day at the Arroyo Grande Oil Field that sits on 3 active fault lines? This water could potentially reach any ground water in the county and contaminate it. Once the groundwater is contaminated and with the construct of the fault lines no water anywhere in the county is safe. And the reason for that is none of the wells at the Arroyo Grande Oil Field have been certified safe by the EPA Class I Underground Injection Control program mandated under CFR 144.11. So, the biggest threat to our water is the elephant in the room and I would like to know if you are going to address this issue. Every community and municipality's ground water in SLO County is threatened with irreversible and irreparable water damage because of the unlicensed, un permitted, illegal and unlawful dumping of toxic waste in the unincorporated areas of SLO county. The Board of Supervisors is the lead agency and responsible for allowing the Oil to operate without permit or license. It seems to be it would behoove every municipality that depends on clean, unencumbered groundwater would demand the Board of Supervisors get the proper and necessary certification and official verification that the Arroyo Grande Oil Field is safe to dispose of radioactive toxic and other hazardous waste without fear or threat of contamination for 10,000 years or until the toxic waste becomes inert, whichever comes first. I would like to know what you intend to do about the illegal dumping in our backyard. Thank you.</p>	6/29/2020 14:15	<p>The Arroyo Grande oil field is outside of and downgradient from the San Luis Obispo Valley Groundwater Basin, and is not regulated under SGMA. Under appropriate operations and permitted conditions, oil field extractions operations are not anticipated to endanger water supply or quality in SLO Basin. Effluent from the Sentinel Peak water treatment plant is being considered as a possible supplemental water source for the Edna Valley agricultural stakeholders under the Projects and Managements Actions evaluations.</p>
George Donati	Draft_SLO_GSP_Chapter_6.pdf - 6.3.5 Total Groundwater in Storage	<p>To: Dick Tzou and all Consultants — My biggest question for the Edna Valley Basin, how can these consultants come up with a Sustainable Yield of less than 3500 AFY in a basin, when the Basin contains Groundwater Storage Estimates of an average of 120,000 AF? This Sustainable yield is only 3% of the storage. If you read the paragraphs below table 6-14, they explain why they increased the groundwater storage to a much higher number in the Edna Basin than previous consultants. It used to be 34,000 AF of storage. However even with this 3.5X increase in storage, the sustainable yield did not increase at all. In fact it decreased. These numbers do not make sense at all to me.</p>	9/28/2020 13:53	<p>Consistent declining water levels indicate Edna Valley is in overdraft.</p>
Chris Darway	General Comments	<p>The graph for pumping does not have an accurate trajectory for two reasons: (1) the trajectory for 2007 to 2019 should be down and not up; and (2) the trajectory being down since 2015 is dramatic. Conservation measures after drought.</p>	9/29/2020 16:48	<p>Assuming we are talking about Figure 6-8, the trajectory for groundwater extraction is shown as decreasing pumping from 2007-2019. The visual trajectory appears "up" only because the bars are below the zero line, so a decreasing trajectory is toward the top of the page.</p>

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Chris Darway	General Comments	Why is 2016 data being excluded? I keep rereading the Water Budget material and came across the reasoning for those years at p 22: "These years include the beginning and ending years in the base period, along with sufficient intervening years to characterize change in storage trends through the base period". This is highly discretionary. Look at the intervals between the years chosen: 4,5,3,7,6,3 and 5 years. More important, by excluding 2016, they allow the argument that the 2014 low point will not be the low point going forward, when an equally valid point is that the 2016-19 trend indicates an upward trend in storage. If increasing storage, where is the overdraft?	9/29/2020 16:49	Hydrologic base periods are selected according to several criteria, including length of record, inclusion of at least one extended wet period and dry period, beginning and ending at a similar point in the cumulative precipitation curve, etc. However, 2016 data is not excluded. Tables 6-1, 6-2, and 6-3 present estimates for all water budget components for every year from 1987-2019.
Chris Darway	General Comments	On page 44 why did you choose the years shown in table 6-14? There were 21 representative wells (note some of our wells weren't developed until the early 1990s and then select the years for water levels without any explanation as to why those years?	9/29/2020 16:50	The years presented in Table 6-14 are years for which water level maps were generated, which were then used to estimate changes in storage based on the water levels between those years. Often it is not easily discernible in a basin scale water level map to see water level changes between successive years
Earl Darway	General Comments	How can consultants come up with a Sustainable Yield of less than 4000 AFY in a basin, when the Basin contains Groundwater Storage Estimates of an average of 120,000 AF? This Sustainable yield is only 3% of the storage.	9/29/2020 16:51	Storage and yield not related. For example, Paso basin has about 30million AF storage but only 60,000 AFY safe yield (0.2%). Safe yield is determined by stopping storage and water level declines; it is not a function of total groundwater in storage. The sustainable yield estimate is the level of pumping that would not result in continued decline in water levels.

Name	Comment Subject	Comment	Date/Time	Response
George Donati	Draft_SLO_GSP_Chapter_6.pdf - 6.3.4 Historical Groundwater Budget — Part 1	<p>To Dick Tzou and all Consultants, Again in the Groundwater Budget, I find estimated and incorrect Data. Or, I do not understand the Data. My questions are below: Groundwater:</p> <ol style="list-style-type: none"> 1. I do not see where streambed infiltration is counted here? Why not if over 5000 AFY flows through our streams? 2. Explain all these inflow and outflow numbers? Are they estimates? <ul style="list-style-type: none"> • Page 5. This map may need to be updated. This map shows irrigated acres inside and outside the basin. How is this going to be managed by SGMA? Wells outside of the basin DO affect the basin. How are these wells going to be managed by SGMA? • Page 26. Table 6.6. Land Cover. Why is Irrigated AG in the Edna Valley, 2001 2016, a different total in this table than the subtotal of irrigated AF in Table 6.5? 237 acres of Developed Urban. Is this homes and businesses? • Page 27. Stream inflow to Basin. No mention here of the Dam preventing stream inflow to the Edna Basin. • Page 30. Stream inflow was adjusted due to the Dam. However you used 2010 to 2018 as an average for the entire 33 years. Maximum diversion of 900 AFY does not make sense in the big rain years with over 5000 AFY flowing out of the creeks. And this includes ET? According to your water budget ET of precipitation amounts to a 58% - 90% loss. Please check these numbers. • Page 31. ET of Precipitation. You are using Arroyo Grande/Nipomo Mesa (Sandy Soils) and Paso Robles to estimate how much rain we need to have before infiltration starts. Edna is mainly heavy clay soils and is no comparison to sandy/ calcareous soils. Using 11-13 rain before percolation is not correct. • Page 36. Table 6-8. This data does not make logical sense. Lots of Assumptions here. We need real Data! • Page 40. Urban groundwater extractions. Are the individual homeowner wells being counted here? Does the septic leach field counter the extraction? How much ground water does the golf course use? • Page 41. Agricultural Groundwater Extractions. These are all Estimated! Why not get real data and then use real data to determine groundwater extractions. • Page 43. Table 6-11. Consumptive Water use. Are you using the low, med or High to estimate water use? 	9/30/2020 11:50	<ol style="list-style-type: none"> 1. Streambed infiltration is counted under groundwater/surface water interaction (Section 6.3.3; page 30). On the main tables (6-1 to 6-3), is it shown as an outflow item from surface water budget and inflow item for groundwater budget. 2. Explanation of all the inflow and outflow numbers are presented in Chapter 6. Inflow and outflow items are estimates derived from hard data such rainfall, water levels, temperature, irrigated acreage, aerial imagery, municipal pumping, surface water deliveries, and WWTP discharges. 3. Acreages shown outside the basin are irrigated by wells located in the basin. These may be updated as new information comes forward. Management of wells outside the basin are not under the purview of SGMA. 4. The acreage totals for the overlapping years in these two tables (2011, 2013, and 2016) are not different, they are the same. Yes, 237 acres are homes and businesses. 5. Reservoir impacts to streamflow is presented in the very next paragraph, although because of the need to insert two figures, the chapter text resumes on page 30. 6. The dataset was from 2010 to 2018, so not just those two years. Rather than an average, the dataset was used to correlate reported diversions with rainfall. 7. Maximum diversion is self-reported by reservoir operator and based on limit of reservoir size, not amount of rainfall. 8. These values are based on field studies by Blaney in Ventura County and the Lompoc Valley (less sandy conditions than the Nipomo Mesa), which were considered applicable by DWR and Fugro to central coast basins. We are making the same assumption.

Name	Comment Subject	Comment	Date/Time	Response
				<p>9. The data indicates lower thresholds for irrigated land, which makes logical sense. Local field studies for infiltration thresholds were not part of scope of work for this planning document. They could be done in the future.</p> <p>10. Yes, individual homeowners are counted and septic return flows partially counter the extraction. The golf courses are irrigated in part with recycled water and in part with groundwater, which are accounted for separately in the water budget. Golf course groundwater use is included in groundwater extractions (Urban). Recycled water use on golf courses is accounted for through the ET of applied water (urban) and infiltration of applied water (urban).</p> <p>11. Yes, metering agricultural wells for groundwater use would be useful.</p> <p>12. Each year has a specific value based on the daily soil moisture budget (Figure 6-17). The low, medium and high values are shown in the table for perspective.</p>

Name	Comment Subject	Comment	Date/Time	Response
George Donati	Draft_SLO_GSP_Chapter_6.pdf - 6.3.4 Historical Groundwater Budget — Part 2	<ul style="list-style-type: none"> • Page 49. Table 6-14. Groundwater storage. This is our reservoir to use when in drought years and this can be replenished in large rainfall years. If this is truly groundwater storage, then we can re-fill this reservoir in the wet years, and use it in the drought years. Correct? How did 3300 AF sustainable yield get calculated from a 120,000 AF reservoir? • Page 50. Change in Storage 1987-2019. The Edna Valley shows a 27,000 AF decline over these 33 years, which is less than 100 AF/year. They state this is reasonable. However they again omit the fact that the 1000AF dam does not let water into our basin. If they calculate this loss, the Edna Valley actually has gained storage over the past 33 years. • Page 53. Table 6-17. Estimated Overdraft. These numbers are not real data. They cannot use the Boyle study for some of their data, and then not use the Boyle study for the conclusion of available water at 4,000 AF/year. • Page 56. Current Water Budget. 1. Current years (2016-2019), Rain increased by 1500 AFY. 2. Stream flow INTO our basin decreased by 140 AFY. How can this be? 3. Groundwater extractions. Where do they get these numbers. They are not reasonable to go higher in wet years of 2016-2019 when Ag Irrigation is much less. 4. Streamflow OUT of the Basin. In the 33 year total of 3580 is only 50 AFY less than the inflow into the Basin. This would mean that there is only 50 AFY of infiltration into the basin???? However the Groundwater Budget shows 1890 AFY infiltration.??? <p>Thank you, George Donati</p>	9/30/2020 11:50	<p>1. If the replenishment in wet years does not balance the storage loss in dry years, no amount of storage will be sustainable. They are not directly related. The 3,300 AFY yield is based on being able to balance the elements of inflow and outflow over long-term climatic conditions (wet and dry).</p> <p>2. A decline of 27,440 acre-feet over 33 years is 830 AFY loss in storage, not less than 100. The reservoir is estimate to withhold an average of 350 AFY of surface inflow to the basin, so removing the reservoir would only partially offset the loss in storage. Sustainable yield is calculated on a pumping amount under which continued declines will not occur.</p> <p>3. The Boyle report was used to fill some of the historical surface water (imported water) data which came from City records. The conclusions of the Boyle report are provided as a comparison to the current water budget.</p> <p>4. The reservoir on West el Corral de Piedra Creek diverted enough streamflow to cause inflow to go down while rainfall increased.</p> <p>5. Average Ag irrigation from 2016-2019 was greater than during the base period (Table 6-19), so extractions going up makes sense.</p> <p>6. There is and estimated 510 AFY of average stream infiltration in the basin (Table 6-19). The difference between stream inflow and stream outflow is only 50 AFY because there is significant surface water runoff within the basin, especially during high rainfall years.</p> <p>Additional declines which may be feasible for deep agricultural wells may not be feasible for shallower domestic wells.</p>

Name	Comment Subject	Comment	Date/Time	Response
Keith Watkins	Draft_SLO_GSP_Chapter_6.pdf - Part 1	<p>Draft SLO GSP Chapter 6 Comments:</p> <ul style="list-style-type: none"> • Page 7, first paragraph SLO Basin fills quicker and basin becomes full, preventing further recharge. When this occurs does some water flow back into the Edna basin if it is still not full? This would provide additional credits in wet years to the Edna basin. • Page 17, 6.1.1 Is the Base Period truly representative of the basins? Prior to 1987 was a very wet period, followed by a very dry period (1987 through 1991). The period chosen contains two extended droughts with individual wet years between. Wouldn't it make sense to have a wet period to balance the two extended droughts? • Page 19, 6.1.1 Rainfall totals are based on Cal Poly records with an attempt to balance with data from the gas company. This information slights the Edna basin where growers have historical data showing an average of 20% more rainfall than the numbers being used. Shouldn't we balance these number with additional data from south of the Edna basin? Possibly Arroyo Grande or Lopez Lake? • Page 31, Evapotranspiration of Precipitation Assumption that no water infiltrates when precipitation is below 11 inches. This does not account for heavy rain events early in the season that do penetrate below the crop root zone. Nor does it account for the fact that the crop is potentially already saturated from an irrigation allowing precipitation to penetrate much quicker. Basing this data from the Nipomo Mesa, which has much more wind than the Edna basin, also lowers the reliability of the numbers. • Page 33, Stream Outflow from Basin - Outflow on Pismo Creek is all based on data from two years at the end of a drought period (91). These years are not representative due to the lower water levels in the basin after a drought. So much of stream outflow is dependent on the intensity of the rain event. Actual data needs to be collected to determine when flows happen and at what volume in correlation with storm events. • Page 34, Infiltration These infiltration numbers do not take into account cultural practices that enhance infiltration and minimize runoff, such as soil chiseling, ground cover between rows, contouring of rows to catch water flow, and drains to catch flows and recycle to reservoir storage. Also, assumptions that no water infiltrates after 30of rainfall does not consider the timing and intensity of rain events • Page 37, Subsurface inflow. Water flows down gradient from the south end of the Edna basin, through the basin and out either Pismo Creek or into the SLO Basin. The model has flows out of Edna basin even during drought periods when the gradient should be reduced. Does the model consider this fact and reduce outflows to compensate for lower groundwater levels in the Edna basin? 	9/29/2020 10:52	<ol style="list-style-type: none"> 1. No, there is not enough pressure for groundwater in SLO Valley to flow into Edna Valley. 2. Figure 6-10 shows base period covers three dry periods, three wet periods, and one average period. It is balanced. 3. The spatially balanced average annual precipitation data in Figure 4-3 (Chapter 4) does not show the Edna Valley as having more rainfall than Cal Poly (actually less). The Figure supports using the Gas Company location for the Basin. 4. The 11 inches is for agricultural fields and accounts for irrigation – otherwise the number is 18 inches (Table 6-8). Heavy rains in the early season are more likely to create runoff than infiltration – the soil moisture deficit needs to be met before infiltration can occur. 5. Outflow is not all based on two years of data, but only those two years can be used to check the numbers. Yes, we need stream flow data. 6. Agreed. The methodology does not account for individual grower practices or specific rain fall patterns. 7. Yes, that is considered, and the flow from Edna to SLO is an annual average based on high and low values (Page 39). Water does not flow from SLO Valley to Edna Valley; the hydraulic gradient is to the northwest. The Cal Poly data is the most robust dataset available in the basin. Average isohyetal contours based on long term records are used to estimate rainfall in other parts of the Basin. Base period selected based on several criteria, and must include at least one wet period and dry period, start and end on similar climatic conditions, etc. Additional stream flow data will be recommended to be collected as part of the implementation plan.

Name	Comment Subject	Comment	Date/Time	Response
				<p>The annual time step of the water budget requires some simplifying assumptions.</p> <p>The hydraulic gradient remains northward from Edna Valley to SLO Valley even in times of drought (see water level maps in Chapter 5).</p>

Name	Comment Subject	Comment	Date/Time	Response
Keith Watkins	Draft_SLO_GSP_Chapter_6.pdf - Part 2	<ul style="list-style-type: none"> • Page 49, Table 6-14 Groundwater Storage. From 1986 to 2005 (19 years) the average annual change was -349 ac-ft per year. Are we putting too much of an emphasis on the lowering of levels during the drought with this current evaluation? With Edna basin storage of over 105,000 ac-ft, setting target water levels lower than current pumping levels seems prudent to allow for sustainable agricultural operations and protection of the basins. • Page 53, 6.3.8 Utilizing Et to establish groundwater usage is not accurate when many growers utilize various methods to determine crop water demand. Many permanent crop growers utilize deficit irrigation to improve crop set, improve fruit quality, or meet winery demands. • Page 56, Table 6-19 - The current model assumes higher ag extractions, even with more acreage coming out of production? Stream inflows decrease even with an increase in precipitation. Stream outflows increasing, even with decreasing inflows. For the last four years, the model still shows a reduction in groundwater, even though we are showing a rise in the water levels (Table 6-14)? With so much contrary information, we need to build good data base to build our program on. We should take the next five years to build good information and use it to make the correct decisions on whether the basin is truly in a deficit position. Using data developed to substantiate the hypothesis does not create good policy. 	9/29/2020 10:52	<p>1. This will be evaluated in Chapter 8 - Sustainable Management Criteria.</p> <p>2. The methodology used is the industry standard for estimating crop demand and is supported by DWR BMPs. It may not address specific grower practices but, short of water meters, is the most efficient way to evaluate demand on the basin scale.</p> <p>3. There was still more average acreage from 2016-2019 than for the 1987-2019 base period (Table 6-5).</p> <p>4. Stream inflow was less because of the upstream reservoir diverting flows after the drought. Stream outflow was more because the precipitation was greater and created more runoff. Without the reservoir, both the inflows and outflow would have been greater in 2016-2019, compared the base period.</p> <p>5. The rise in water levels mentioned is based on comparing 2014 storage to 2019 storage in Table 6-14 which is from the specific yield method. The reduction in groundwater over the last four years (2016-2019) is from the water balance. These are two different time periods and two different methods.</p> <p>The information is complex and may appear contrary. The status of the basin and magnitude of the deficit is based on accepted methodologies in accordance with DWR BMPs. Yes, we need to build good data to make the correct decisions. It would not be unreasonable to take the next five years to build on the available information and use it to make informed decisions on whether the basin is truly in a deficit position, provided that the actions taken do not result in avoidable, undesirable consequences.</p>

Name	Comment Subject	Comment	Date/Time	Response
George Christensen	General Comments	<p>Comments on Chapter 6 of SLO Valley Basin GSP1)</p> <ul style="list-style-type: none"> • Table 6-4: Historical Base Period Rainfall. This table causes me to challenge the credibility of the entire GSP. What kind of farmer, engineer, doctor, banker or venture capitalist is going to make critical decisions when more than 25% of the foundational data supporting the proposal is manufactured? Furthermore, to apply a simple constant value of 90% to all categories of the data seems like a bit of a "short cut" and a tad irresponsible. If we must follow this example of "creating datum", then I suggest doing an extrapolation for each of the year categories, e.g., dry, wet, Above Normal, Below Normal. I did a simple regression between Cal Poly and the Gas Co and sure enough it was close to a 90% relationship in the "wet" years. However, other years had lesser values with "dry" years having the lowest relationship of only 83%. Another oddity is all of the years are categorized into one of four categories: wet, dry, above normal or below normal. This states that a "normal" year does not exist where the measured rainfall fell within an expected range. Lack of a "normal" group will skew the data such that EVERY datum is abnormal and normalcy can never be observed or measured. Lack of a normal range immediately causes bias in the analysis of the data. To summarize, this table causes me to be skeptical of other data and conclusions set forth in this chapter. 2) For the Edna Valley subarea, several streams that provide critical recharge via percolation are impacted by private reservoirs totaling more than 900AF. While I believe that these reservoirs are permitted and well-maintained by the owners, data is not presented regarding the outflow from those reservoirs/dams which could impact the recharge of the Edna Valley subarea. I would like to see "credible data" be included into this model reflecting the effect these private water storage facilities are or are not having on the Edna Valley subarea. 3) While "the estimated average specific yield value for the Edna Valley subarea is also close to 30 percent greater for GSP storage calculations." (Section 6.3.5), where is the updated/revised sustainable yield for this newly sized subarea? Respectfully, George Christensen Vegetable grower 	9/29/2020 17:11	<ol style="list-style-type: none"> 1. The correlation between rainfall at Cal Poly and the Gas Company is robust ($R^2=0.9625$) and used appropriately for adjusting annual rainfall to better represent the basin. The DWR classification for assigning the "type year" don't include normal years. 2. The self-reported groundwater diversions from the reservoir were used in the water budget and summarized on page 30. 3. The updated/revised sustainable yield for the Edna Valley is 3,300 AFY (section 6.3.7.) Note that storage and sustainable yield are not directly related.
Thomas Murrell	Workshop #3 Sustainable Goal Setting	<p>We need to have accurate data before making decisions. Are there plans to install monitoring wells? if so, how much time is needed to get accurate information from those wells? Seems like we are using a lot of guesswork to create a very impactful policy. I don't think it is wise or fair to make policies that end up being too drastic. Proposed Monitoring Level No. 2 (Higher than drought levels) is too drastic. The goal should be to adopt reasonable policies and resource management so that the Edna Valley reaches a level of sustainability for all stakeholders. Agriculture is precious to the Edna Valley and San Luis Obispo. Let's help sustain it, not destroy it.</p>	10/29/2020 10:28	<p>Comments on alternative SMC proposals are noted. We are improving the dataset with about 40 wells in the GSP monitoring network.</p>

Name	Comment Subject	Comment	Date/Time	Response
George Donati	Workshop #3 Sustainable Goal Setting	<p>1. Since 2008 the Edna Valley Growers have been asking the City of SLO to sell to us some of their tertiary treated water since we had heard that they are dumping it down the SLO creek to the ocean. We have gone through 1 long period of drought recently and we could have used that water during the drought rather than lowering our water table. The City continues to put up road blocks to sell us water. If we had this water available, we would not be in an overdraft of our basin .</p> <p>2. The Righetti Dam releases into the creek need to be enforced. This is over 600 acre feet of water that should be flowing into the creek and into the basin.</p> <p>3. Golden State Water needs to look into purchasing water from the State Water Pipeline so that they are not using water from the Edna Valley Basin. Golden State currently has a Selenium issue with their water. This could alleviate this Selenium issue to all other Domestic water users in the Basin.</p> <p>4. We need to Augment Water storage in the basin with Sentinel Peak Resources R.O. water. This RO water is currently dumped into the Pismo Creek and flows to the ocean due to little to no percolation in this area. We propose to move the discharge point of this RO water further up the Corral de Piedra Creek so that this helps to maintain a live stream for fish and at the same time recharge the basin.</p>	10/30/2020 9:21	Will be evaluating the projects listed as part of the Projects and Management Actions Chapter.

Name	Comment Subject	Comment	Date/Time	Response
Brian Talley	Workshop #3 Sustainable Goal Setting	<p>As we consider setting key goals and targets for management of the SLO Basin, goals that will likely have huge impacts on our future sustainability, I think two key issues are not receiving enough consideration. First, much of the data that forms the basis for decision making is incomplete, erroneous or contradictory. Second, not enough consideration is given potential supply enhancements that could materially affect the safe yield of the basin. Because of this, I favor a moderate approach to goal setting in the near term to learn more about how our basin responds to adaptive management practices over the longer term. For instance, much of Chapter 6 of the draft GSP is composed of estimated values. More significantly, it appears that the saturated thickness for well 31S/13E-27M03 is dramatically understated at 60 feet when in fact it is 280 feet. This data is then interpolated to conclude that the saturated thickness for all wells in the Edna Valley is much less than it is. This in turn leads to a recommendation of drastic reduction in pumping in the Edna Valley, potentially to the MT2 level, which could be insufficient to support existing agricultural operations. Representative monitoring wells need to be selected and accurate drilling logs need to be reviewed so that we have a more accurate data and can base management decisions on that data. Meanwhile, there are a number of opportunities to enhance water supply in the basin that haven't received enough consideration. A group of Edna Valley growers has tried to purchase tertiary treated water from the City of San Luis Obispo since 2008. This could add 600-1000 AF to the basin supply. The same Edna Valley growers are in discussions with Sentinel Power to move their discharge point for RO treated water, a byproduct of their petroleum operations, further up the Corral de Piedra creek and adding as much as 1000 AF to the basin. The Righetti dam has operated inconsistently with the permit issued by Department of Water Resources. Ensuring that their releases comply with the permit would add 600 AF to the basin and enhance the Corral de Piedra creek fish habitat. Golden State Water is struggling with elevated Selenium in their wells: they should purchase the State Water they are entitled to, which would both alleviate their Selenium issue and enhance the supply of the basin. Farmers have adopted conservation measures including pressure compensating drip irrigation and the use of highly efficient micro sprinklers. Let's make sure that domestic users are as focused on conservation as farmers. True sustainability is a long game, with a horizon of 20 years as opposed to 5. We shouldn't make critical decisions now based on incomplete or erroneous data. At the same time, we need to explore every viable opportunity to enhance the water supply of the basin. Making bad decisions now could have devastating impacts on agriculture in the Edna Valley, one of our county's critical industries, as well as the foundation of San Luis Obispo's green belt, which is a defining characteristic of the city.</p>	10/30/2020 9:40	<p>We are improving the dataset with about 40 wells in the GSP monitoring network and proposed stream gages in Edna Valley. Construction Data for Well 27M03 has been corrected. The Projects and Management actions involving supplemental water sources that you mention are being considered in Chapter 9.</p>

Name	Comment Subject	Comment	Date/Time	Response
Jim McGarry	Draft_SLO_GSP_Chapter_6.pdf - 6.3 HISTORICAL WATER BUDGET	I do not see where streambed infiltration is counted here? Why not if over 5000 AFY flows through our streams? In aerial images for this small valley. Irrigated Ag acres. This page needs to be checked for accuracy. We do not want to rely on aerial images for this small valley. Urban groundwater extractions. Are the individual wells factored here? Does the septic leach field counter the extraction? How much ground water does the golf course use?	9/28/2020 14:08	Streambed infiltration is labelled as GW/SW interaction in Tables 6-1, 6-2, 6-3. Aerial images are reasonably accurate for this purpose. Yes, they are. Yes, partially. Golf Course use is included as part of Urban Demand per DWR Water Budget BMP and not reported separately.
Chris Darway	Draft_SLO_GSP_Chapter_6.pdf	Why is 2016 data being excluded? I keep rereading the Water Budget material and came across the reasoning for those years at p 22: "These years include the beginning and ending years in the base period, along with sufficient intervening years to characterize change in storage trends through the base period". This is highly discretionary. Look at the intervals between the years chosen: 4,5,3,7,6,3 and 5 years.	9/29/2020 16:47	2016 data is not excluded from the water budget. Tables 6-1, 6-2, and 6-3 present estimates for all water budget components for water years 1987-2019. Groundwater storage is estimated by the water budget for all years using all the available data over the base period. The years selected for estimating storage using the specific yield method were to calibrate the beginning and end of the base period and to illustrate storage trends. They do not change the overall decline in storage over the base period or the estimated overdraft.

Name	Comment Subject	Comment	Date/Time	Response
James McGarry	General Comments	<p>1. Since 2008 the Edna Valley Growers have been asking the City of SLO (using Rob Miller with the Wallace Group) to sell to us some of their tertiary treated water since we had heard that they are dumping it down the SLO creek to the ocean. We have gone through 1 long period of drought recently and we could have used that water during the drought rather than lowering our water table. The City continues to put up road blocks to sell us water. If we had this water available, we would not be in an overdraft of our basin (if we are at all).</p> <p>2. The Righetti Dam releases into the creek need to be enforced. This is over 600 acre feet of water that should be flowing into the creek and into the basin.</p> <p>3. Golden State Water needs to start purchasing water from the State Water Pipeline so that they are not using water from the Edna Valley Basin. Golden State currently has a Selenium issue with their water as brought up by Toby Moore in the Workshop. This could alleviate this Selenium issue to all other Domestic water users in the Basin.</p> <p>4. We need to Augment Water storage with Sentinel Peak Resources R.O. water by discharging the water that is currently going out to the ocean, further up the Corral de Piedra Creek.</p> <p>7. Corral de Piedra creek needs to be brought back to life to save the fish. If this were done using surface water, then our basin would be in a plus balance.</p> <p>8. During the last drought, very few domestic wells went dry (these were old wells that were not drilled to a sustainable level). Those unsustainable wells have been replaced. We can get through the next drought with MT's below the last drought levels.</p>	10/30/2020 11:47	The projects listed are being evaluated as part of the Projects and Management Actions Chapter 9.

Name	Comment Subject	Comment	Date/Time	Response
Andy Mangano	Workshop #3 Sustainable Goal Setting - Part 1	<p>Edna Ranch Mutual Water company (East) / Public Comment SLO Basin GSP — Stakeholders Workshop #3 — 10/01/2020 Edna Ranch Mutual Water Company (East) appreciates the opportunity to provide the following comments. We recognize the Basin faces challenges and we encourage a collaborative process whereby SGMA employs science and up to date accurate information to best determine a sustainable plan for all users. Observations:</p> <p>1) in our initial review, there appears to be incomplete data which requires the consultant to base their conclusions on estimates, For example:</p> <p>A) There is a lack of data for stream inflows and outflows B) A lack of well drilling logs C) A lack of monitoring wells to accurately measure water levels D) The representative well most relevant to our MWC is 315/13E-27M03, which is depicted on page 26 of the workshop #3 materials. We understand the actual drilling logs show saturated thickness of 280 feet rather than 60 feet mentioned Suggestions:</p> <p>2) Robust stream gauges, procurement of all well drilling logs for all representative wells, robust well metering locations and strategically located monitoring wells.</p> <p>3) In the first 5 years, we should fully develop all revenant scientific data and at the same time, proceed cautiously given the lack of data, and the necessary reliance or guesses and estimates, that could be considered unreliable.4) In reviewing the Paso Robles GSP, we note there is a 5 year period of improved monitoring and fact gathering before any policies are implemented. We encourage Edna Valley adopt the same approach during the first 5 year period. We also recommend during this period to fully explore all augmentation opportunities and conservation measures.</p>	10/31/2020 9:45	As part of the monitoring network the GSP will recommend additional stream gages. We are improving the dataset with 40 wells in the GSP monitoring network and will collect a robust dataset in the 5 years following the development of the GSP. Well construction data for 27M03 has been corrected.

Name	Comment Subject	Comment	Date/Time	Response																												
Andy Mangano	Workshop #3 Sustainable Goal Setting - Part 2	<p>5) SGMA requires a minimum of 10 years for the historical analysis. If the 10 year period had been adopted, the trend for groundwater pumping would be decreasing rather than increasing when using the 33 year model as depicted on Page 29 of 127 in Chapter 6 of the water budget.</p> <p>6) Actual City of SLO greenbelt extends out to Edna Ranch. The City in 2014 adopted a policy in support of providing recycled water use within the City's Greenbelt. What is the status of this policy implementation?</p> <p>7) The last page of the Workshop #3 materials projects an augmentation of 500 AFY that would raise the water levels by 33 feet. If the City could provide up to 1000 AFY of recycled water, it appears the water levels would increase for our representative (MO3) to 1995-99 levels as depicted in the graph on page 26.</p> <p>8) Chapter 6 of the water budget, page 25 (70 of 127) shows there are 453 acres of row crops. Page 43 (88 of 127) indicates row crops (overhead sprinklers) use a median of 1.6 AFY and vineyards (drip irrigation) use 0.6 AFY. Does this mean that if row crops converted to drip irrigation there would be a corresponding reduction of 453 AFY? If row crops converted from overhead sprinklers to drip, would this not achieve a savings of 453 AFY? It appears a lot of water could be saved by converting overhead sprinklers to drip irrigation. Respectively Submitted By Edna Ranch Mutual Water Company (east) Board Of Directors</p>	10/31/2020 9:45	<p>The management actions listed here will be considered in chapter 9/Projects and Management Actions. It will consider irrigation efficiency as a management action. However, it should be noted that increased irrigation efficiency also results in reduced irrigation return flows, so the net impact on the aquifer may not be significant.</p>																												
Earl Darway	General Comments	<p>There are two lines of numbers that are curious. 1/3 of the years show stream outflow exceeds inflow: 1993, 1997, 2000, 2001, 2003, 2005, 2006, 2011, 2016, and 2019. All these years are Wet of Above Normal, except 2016 Below Normal. Is this due to infiltration and / or GW/SW intersection? Does this make sense to you? Similar question regarding ET evaporation: In 8 Dry years, the evaporation essentially equaled the precipitation:</p> <table border="1" data-bbox="680 1068 1367 1166"> <thead> <tr> <th>Precip</th> <th>ET</th> <th>Evaporation</th> <th>1987</th> <th>6780</th> <th>6610</th> <th>1990</th> </tr> </thead> <tbody> <tr> <td>5960</td> <td>5860</td> <td>2007</td> <td>3810</td> <td>3800</td> <td>2009</td> <td>5170</td> </tr> <tr> <td>5100</td> <td>2013</td> <td>4640</td> <td>4600</td> <td>2014</td> <td>4590</td> <td>4550</td> </tr> <tr> <td>5230</td> <td>5160</td> <td>2018</td> <td>6130</td> <td>6020</td> <td></td> <td></td> </tr> </tbody> </table> <p>The numbers above don't make sense.</p>	Precip	ET	Evaporation	1987	6780	6610	1990	5960	5860	2007	3810	3800	2009	5170	5100	2013	4640	4600	2014	4590	4550	5230	5160	2018	6130	6020			9/30/2020 19:01	<ol style="list-style-type: none"> 1. All streams increase in watershed area in the downstream direction. In wet years the runoff from the basin contributes significantly to stream outflow. 2. 2016 followed a severe drought, and diversion of inflow to the upstream reservoir was a contributing factor. 3. Since there is a need to overcome the soil moisture deficit before infiltration can occur, there is a minimum rainfall threshold the must be met every year. In dry years, this minimum can take of most or all of the available precipitation. That's why there's often little recharge in dry years.
Precip	ET	Evaporation	1987	6780	6610	1990																										
5960	5860	2007	3810	3800	2009	5170																										
5100	2013	4640	4600	2014	4590	4550																										
5230	5160	2018	6130	6020																												

Name	Comment Subject	Comment	Date/Time	Response
Earl Darway	General Comments	Page 29 shows a gain of 5970 AFT for years 2016 -2019. The graph shows an upward trajectory for Edna. Table 6-14 should show the amount of storage for 2016. By not doing so, we miss the great increase from 2016-2019--most likely due to greater rain plus conservation efforts. Since the SLO subarea was stable during 2014-2016, the 5970 increase is in Edna--probably rising from about 100,000 AFT in 2016 to 105, 630 in 2019. Impressive and not apparent because 2016 numbers are not shown.	9/30/2020 19:01	Not finding referenced gain on page 29, but storage increase between 2016-2019 is estimated by water budget in Tables 6-1, 6-2, 6-3. Focusing on a partial rebound following severe drought doesn't resolve big picture declines. We must evaluate a long term time period.
Robert Schiebelhut	Workshop #3 Sustainable Goal Setting	Revision Needed For Representative Well 31S/13E-27MO3: Page 22 of the materials presented at Workshop #3 depicts a graph of the Baggett Main Well--31S/13E-27MO3--a well at Edna Ranch. I believe the well log for this well was made available several years ago but in any event, I have recently forwarded the drilling log to David O' Rourke. In fact, the drilling log shows an actual depth of 400 feet with sands all the way to 400 feet. Bedrock was not encountered. Please revise the graph to show the well depth at 400 feet and at least 280 feet of Saturated Thickness--- instead of 60 feet. Thank you	10/26/2020 13:48	Comment noted, model and hydrograph have been corrected to reflect this.
Brian Bertelsen	Workshop #3 Sustainable Goal Setting	As a property owner in the Edna Valley, I fully support MT-3 and MO-4. Additionally, I am in favor of a 5 year period of collecting good, reliable data of the water basin and exploring all options to utilize recycled SLO water for farm irrigation purposes which helps this basin as well as allows the city of SLO to sustainably discharge its treated water.	10/30/2020 10:44	Comment on preferred SMCs is noted. Improved data collection will be a high priority in the implementation plan.
Brian Talley	Draft_SLO_GSP_Chapter_6.pdf	My family has farmed wine grapes and vegetables in the Edna Valley for more than 30 years. During this time, we've made numerous changes to reduce our water consumption and preserve this most precious resource. As I've reviewed the various documents in the Water Budget Chapter of the Groundwater Sustainability Plan for the SLO Basin, I'm struck by the complex and often contradictory nature of the data that underpins many of the findings and likely future decisions. My concern is that significant changes are contemplated based on erroneous or missing data, and this could have potentially devastating impacts on agriculture in our region. I encourage you to slow down and adopt a more adaptive approach that relies on better data to guide decision making. This should start with a robust and accurate monitoring system where stakeholders can monitor progress and agree on best practices to achieve mutually agreed upon objectives. The consequences of getting this wrong could not only destroy the livelihood of those of us farming in the Edna Valley, but have lasting negative impacts on land use in the valley. Just as my family has relied on an adaptive and evolving approach to manage our resources, so should we all as a group going forward.	9/29/2020 15:23	The monitoring well network has been expanded from 12 wells to 40 wells, and will provide better data during the first 5-year implementation period. The importance of agriculture to the local economy is understood by the GSAs. The SGMA legislation mandates a specific timeline. A plan with recommended SMCs must be filed by January 2022. Adaptive management through the 20-year planning period based on additional data is planned.

Name	Comment Subject	Comment	Date/Time	Response
George Donati	Draft_SLO_GSP_Chapter_6.pdf - 6.3.3 Historical Surface Water Budget	<p>To: Dick Tzou and all Consultants George Donati comments: I have reviewed the data in the Water Budget (Chapter 6). I find that much of the data is estimated, inaccurate, contradictory, and possibly manufactured. Many of my findings are outlined below. I have farmed in this valley since 1996 using ground water on permanent crops. We need to slow down our Sustainability Plan process so that we can gather accurate data to be able to make the correct long-lasting decisions. We need to have time to gather accurate data as the basis for our Sustainable plan. This will protect all homeowners, landowners, Farmers and residents while we accurately sustain the Edna Valley Basin. Again, below are my findings of data that I am questioning. Page 6. SLO subarea surface inflow watershed is 28,823 acres. Edna subarea inflow watershed is 10,145 acres. Edna is only 35% as big as SLO. Page 9. Figure 6-2. Surface Water:</p> <ol style="list-style-type: none"> 1. Is the stream inflow above the Righetti dam or below? If below, then this cuts a lot of our watershed out of the equation. 2. What is ET of Precipitation? Why is this number almost always about 90% of total precipitation? This means that 90% of rainwater is evaporated during cloudy and rainy weather? Please explain. 3. Where is the stream inflow measured? Stream Inflow of 5480 AFY (2019) calculates into 3400 gallons per minute of water flowing into our basin below the dam in the creek for 365 days, 24 hours per day??? Or is this above the Dam? Can this be correct when we see no water flowing in these creeks? 4. Stream Outflow is higher than stream inflow? Where is this additional water coming from? 5. Riparian ET. How can this be the same number every year when we had long years of drought and no streamflow for many years? <p>Thank You, George Donati</p>	9/30/2020 12:09	<p>Your comments on slowing down timeline for GSP submittal is dully noted. However, the SGMA legislation mandates a specific timeline. A GSP must be filed by January 2022, which will also include an adaptive management approach in implementing the plan in the next 20-years. The Edna Valley contributing watershed is smaller than the SLO Valley contributing watershed area, so the inflows into Edna Valley are smaller.</p> <ol style="list-style-type: none"> 1. The stream inflow is below the Righetie Reservoir. 2. The estimated ET of precipitation is based on the minimum infiltration thresholds (ET of rainfall prior to deep percolation or runoff). On average, 74% of rainfall is estimated to evaporate (not 90%), while only 67% evaporates during a wet period (Table 6-20). These are reasonable values. 3. Stream flow on west corral de Piedra is estimated below the dam. The inflow is for all drainages, not just below the dam. Stream flow is intermittent within a wide range, from dry to peak flows of over 1,000 cubic feet per second (cfs) and mean daily flows of over 700 cfs (over 300,000 gallons per minute) recorded on Pismo Creek. During the high flows, much of the water passes through the basin. It would only take about 35 days with high flows (say 80 cfs average) to deliver 5,480 acre-feet of water. Yes, the creeks are dry most of the year. 4. The additional water is from Runoff from within the Basin. 5. It's a small enough number compared to the surface water budget to use as average over most years. During severe drought years it was reduced (Table 6-2).

Name	Comment Subject	Comment	Date/Time	Response
Rick Rogers	Workshop #3 Sustainable Goal Setting - Part 1	<p>NOAA's National Marine Fisheries Service respectfully submits the following comments regarding the "Draft Options for Basin Sustainability Goals Workshop Presentation Slides" presented to the public via webinar on October 1, 2020. We previously relayed these concerns via public comment during the September 9, 2020, SLO Groundwater Sustainability Meeting. Specifically, we are concerned that the SLO GSA continues to promote sustainable management criteria for streamflow depletion impacts that may be insufficiently protective of South-Central California Coast steelhead, listed as threatened under the federal Endangered Species Act. Per SGMA regulations, the required metric for the undesirable result of interconnected surface water (ISW) depletion is the rate or volume of surface water depletions caused by groundwater use that has adverse impacts on beneficial uses of the surface water and may lead to undesirable results (California water code 23 CCR 354.28(c)(6)). SGMA requires that if a proxy metric is used, then significant correlation must be established between the two metrics (CCR 354.36(b)). Unfortunately, the October 1 Workshop Presentation ("Draft Options for Basin Sustainability Goals") continues to propose utilizing groundwater elevations experienced during our recent historical drought as a proxy for ISW depletion, despite there being no identified correlation between those groundwater elevation and "adverse impacts on beneficial uses of the surface water". Identified beneficial uses of San Luis Creek, Pismo Creek, and many other streams traversing the basin are designated by the Central Coast Regional Water Quality Control Board (CCRWQCB) 2017 Basin Plan, and include preserving cold water habitat (COLD), steelhead migration (MIGR), steelhead spawning and rearing (SPAWN), and protecting threatened and endangered species (RARE).The proposed sustainable management criteria neither analyzes nor establishes any ecologically-meaningful relationship between groundwater levels and impacts to these beneficial uses of surface water.</p>	10/28/2020 11:02	<p>The GSP monitoring network identifies stream gages on SLO Creek and East and West Corral de Piedras and will be considered for MO's and MT's once data has been collected. Water level data in alluvial wells in SLO Valley indicate there has been no historical declines in water levels that would impact SLO Creek. Water level data in alluvial wells in Edna Valley and anecdotal information from residents indicates that Corral de piedras Creeks go dry every summer.</p>

Name	Comment Subject	Comment	Date/Time	Response
Rick Rogers	Workshop #3 Sustainable Goal Setting - Part 2	<p>ISW depletion impacts instream aquatic habitat primarily by reducing groundwater accretion to a gaining stream, or accelerating ISW depletion from a losing stream. The impacts can be both physical (e.g., pool volume shrinks as water surface elevation declines) and chemical (e.g., water quality can suffer as pools and riffles lose connectivity). Thus, the appropriate method to determine whether pumping is having significant and unreasonable adverse impacts on beneficial uses of surface water and setting protective management criteria is to understand the level of impact (i.e., volume of ISW depletion) and how habitat quality and functionality change because of that impact, all evaluated on an ecologically pertinent time-scale. Further analysis is required throughout the SLO groundwater basin to establish localized relationships between ISW depletion and the instream habitat characteristics that result. Addressing these impacts will require data and analytical tools that the SLO GSA may not possess at this time. Thus, NMFS recommends the developing Groundwater Sustainability Plan elaborate sufficiently as to when, where, and how data informing streamflow depletion impacts will be collected during the first few years of GSP implementation, and clearly commit to developing a detailed analysis plan with interested stakeholders at a later date. The sustainable yield presented at the workshop is fatally flawed. Per SGMA regulations and guidance, sustainable yield can only be achieved if the basin is sustainable (i.e., avoiding all undesirable results, including depletion of ISW). As explained above, the proposed sustainable management criteria for ISW depletion (i.e., groundwater elevations consistent with extreme drought conditions) likely will not avoid adverse impacts on beneficial uses of surface water; thus, the presented sustained yield estimates are likely invalid and inconsistent with SGMA regulations. Finally, excluding streams as "disconnected from groundwater" based upon a one-time 30-foot depth to groundwater measurement is a concept developed for discerning impacts to riparian vegetation (rooting depth for oak trees), and is not appropriate for analyzing threats to ESA-listed steelhead and their habitat.</p>	10/28/2020 11:02	The GSP monitoring network identifies stream gages on SLO Creek and East and West Corral de Piedras and will be considered for MO's and MT's once data has been collected.

Name	Comment Subject	Comment	Date/Time	Response
James Lokey	Workshop #3 Sustainable Goal Setting	<p>These comments are in regard to the October 1st Stakeholder Workshop #3 presentation slides on Minimum Thresholds (MTs) and Measurable Objectives (MOs): We note on Slides 22 through 27 that the MT(1) for most of the representative wells is set at or near the lowest recorded water level for each well. However, on slide 27 for VRMWC Well #1 your team has recognized that this well has historically shown no ability to recover (other than seasonal partial recovery) over the long term. The MT for this well on slide 27 is set at 160 feet. Thus, in theory, we assume this setting would provide time for the GSA to take actions per the GSP that would reverse the long-term declining trend at this end of the aquifer. At our current rate of long-term decline, a Minimum Threshold of 160 feet for VRMWC Well #1 provides approximately 5 years of continued decline before reaching this MT. While we would prefer to halt this negative trend much sooner than 5 years from now, we understand the reality of the situation and it will take time to implement actions and fund projects to turn this around. We therefore concur with 160 feet as an acceptable MT for VRMWC Well #1, as long as the GSP sets a Measurable Objective that is at least 20 feet above the MT for this well. The MO2 for this well, to incorporate some recovery over the drought years, appears to be in an appropriate range to help provide a sustainable source of water for the long term at this far end of the basin. As shown in the attached chart of our Well #1 water table, as recorded at the lowest level each year since 1988, our water table was declining at an average annual rate of 1.4 feet per year. But since 2003, and over the last 17 years, that decline increased to over 4.24 feet per year on average, which is a 300% increase. The Varian Ranch Mutual Water Company and the residents of the Varian Ranch Development undertook a conscientious water conservation effort over those years which has resulted in the average water use per connection at Varian Ranch declining by over 40% compared to the years prior to 2003. Therefore, we would also ask the GSA to study if the steady decline in the water table at this well may be the result of heavier water use over the last 17 years with the increased number of vineyards and citrus groves that have been developed in the Edna Valley. While we recognize the economic vitality of the agricultural industry to our community and we certainly wish to work with our Agricultural neighbors in maintaining their operations, the water use of the 48 homes at the Varian Ranch development is de minimis when compared to all other uses in the basin and this fact needs to be addressed as the GSP is developed to bring the entire valley into a sustainable condition. We also encourage the GSA to fully explore all augmentation opportunities that may be available from within and outside the basin.</p>	10/30/2020 17:57	<p>Comments on proposed SMCs are noted. Projects and Management Actions will discuss proposed augmentation possibilities to address the groundwater declines. It is recognized that Varian MWC pumping is a amount when compared to agricultural pumping amounts.</p>

Name	Comment Subject	Comment	Date/Time	Response
Peter Orradre	Workshop #3 Sustainable Goal Setting	I am a property owner in Edna Valley and have a serious interest in how our water will be handled in the future. Please see my comments below. I am in support of the MT #3 which addresses the lower water levels than recent low droughts and MO #4 which addresses the Edna Valley wells the best. It is in everyone's best interest to adopt a water conservation program for all domestic and ag wells within the first 5 years of the GSP. This would be equitable for all users to use the most efficient practices. The most sensible approach to coming up with a successful long term plan starts with collecting accurate data versus using estimates or skewed models. I appreciate all your energy throughout this most important task. Sincerely, Peter Orradre	11/1/2020 14:19	Comment received, SMC priorities are noted.
Barbara Baggett	Workshop #3 Sustainable Goal Setting	Thank you the opportunity to comment. I have lived in the Edna Valley for 40 years. I appreciate the hard work of the consultants and staffs to develop the data on which we are to make decisions. But they had a disadvantage due to lack of data. For example, no real stream gauges or monitoring wells. Just production wells; and for those, incomplete drilling logs.. Incomplete rain records for this Valley. Not their fault but we need more information. As with the Paso Basin we need to use the first 5 years to develop full and complete data, especially reliable water level data. I have offered one of my inactive wells for monitoring. I join my neighbors in advocating for MT-3 and MO-4 for the first 5 years. I also applaud the efforts of those actively working on bringing in new water, especially recycled water from the City of San Luis Obispo, This will benefit all of us. I also support identifying and implementing all feasible conservations measures. Working together we can reach sustainability. Barbara Baggett	11/1/2020 11:02	Data will be collected in the first 5 years with a monitoring well network increased from 12 to 40 wells, as well as proposed stream gages. Comments on proposed SMCs are noted. New water sources are to be evaluated in Chapter 9, Projects and Management Actions.
Sarah Hinrichs	Workshop #3 Sustainable Goal Setting	As the CFO for an agricultural business, I oversee several Commercial, Industrial, Agricultural and Residential properties which depend upon water security for their ability to operate and as a large portion of their real estate value. We are careful and aware users of our water resources, and have put into place many conservation measures such as conversion to low-water use landscaping, calibration of our crop irrigation systems, and improving water storage and distribution systems to maximize efficiency. As the Edna Valley Basin begins to build a structure to regulate and manage our shared resources, I think is important to proceed with caution and seek robust data over the next several years. In considering the options laid out, I support the adoption of the Minimum Threshold alternative #3, and the Measurable Objective Alternative #4, in order to allow users security in their operations as this information is collected. Additionally, it makes sense to identify and pursue outside supplemental water sources, many of which have been identified already, to improve the water security of our basin. Together with conservation, storage, and distribution improvements, we can work together to preserve our property values and agricultural traditions into the future.	10/30/2020 14:32	Comments on proposed SMCs are noted. Supplemental water sources are evaluated in Chapter 9, Projects and Management Actions

Name	Comment Subject	Comment	Date/Time	Response
Bruce Falkenhagen	Workshop #3 Sustainable Goal Setting	<p>Gentlemen: I have been following this issue for a while and very pleased that this seems to be moving ahead. I am a resident of the Edna Valley for 20 years with a 40 acre parcel just outside of the SLO Greenbelt. The property has little water beneath it down 500' to well below sea level, because it is all Monterey formation and holds water only in the limited fractures. I have three comments on the work to date:</p> <p>1) I believe that the City of SLO needs to be much more active in giving it's reclaimed sewage water to help the Edna Valley basin. After all, it has declared almost the entire length of the Valley as IT'S greenbelt. So it would follow that the city should help keep it green and in agricultural crops. It doesn't, directionally it will push or even force landowners to convert their flat land to a higher and better use, like higher home density or industrial projects. And despite SLO making objections at that time that it is part of "their" greenbelt and that use should not be allowed suddenly has little basis or foundation. The argument by the developer would be very simple. SLO kept the water and would not allow it to be used to keep the Valley green and in agriculture, so SLO not only has lost the right to object, but by its actions or lack thereof, have in fact endorsed the project. They, the City, has done nothing to help hold the Greenbelt as a green belt.</p> <p>2) We know the story of the Righetti dam. The owners/controllers must require and enforce the requirement for it to release the water that it is required to release which was part of it's building/development permit. I can not understand that the regulators have not enforced this permit requirement or whatever the document was that made the release requirement.</p> <p>3) The backup data being relied upon to justify these actions and projections are filled with assumptions. Since so much is at stake here, and if the assumptions are wrong, the underpinnings of the program are gone and much money has been wasted. I agree with the concept that everything should be held in abeyance for 5 years, to see how accurate those projections were, and then discard the ideas found to be based on events/situations that did not occur, and focus on those that predicted properly and accurately. Thank you very much for your time, and thank everyone involved for donating so much of their time to move this forward.</p>	11/1/2020 16:35	<p>The City of SLO recycled water program is considered as a potential supplemental supply in Chapter 9. The terms of the surface water diversion permit associated with Righetti Reservoir are under the purview of the State Water Board. To the extent that this process results in any additional water being released to West Corral de Piedras Creek, it will be beneficial to the basin. Additional data will be collected from a much-improved monitoring well network and stream gages in the first 5 years.</p>

Name	Comment Subject	Comment	Date/Time	Response
George Christensen	Workshop #3 Sustainable Goal Setting	<p>There are four main points which I would like to make.</p> <p>1) Credibility of data. Today's models are not based on observed or collected data. A significant portion of the data has been generated and interpolated from "similar" sites. I strongly urge the team to prioritize the collection of credible data from the monitoring wells for the next 5-7 years. After that date is analyzed and added into the models, we will need to re-evaluate.</p> <p>2) Aggressive, regular replenishment of the Edna Valley aquifer. Over the next 5-7 years, I would like to see the team focus on these 3 initiatives that could significantly recharge the Edna Valley aquifer: (a) reach an agreement with the City of SLO for the discharge from the waste water treatment plant; (b) engage with Sentinel and land owners to move the Sentinel discharge location to a more advantageous location; (c) work with the Righetti ranch to release sufficient water to have a year-round steady flow in the Corral de Piedra Creek.</p> <p>3) Agricultural Conservation. Provide seminars and information about new/modern water conservation equipment and process for the growers in the Edna Valley.</p> <p>4) Based upon the points I have outlined above, I strongly support MT-3 and MO-4 for the next 5-7 years when we can re-evaluate AFTER we have gathered actual data.</p> <p>Respectfully, George Christensen Vegetable Grower</p>	11/2/2020 11:56	<p>The integrated groundwater/surface water model used is based on observed collected data from the basin including rainfall, water levels, municipal pumping volumes, irrigated acreage, and other data specific to the basin. The data management plan will increase monitoring wells to over 40 and fills in data gaps over the next 5 years.</p> <p>City recycled water and Sentinel Peak water are considered as potential supplemental supplies in Chapter 9. The terms of the surface water diversion permit associated with Righetti Reservoir are under the purview of the State Water Board. To the extent that this process results in any additional water being released to West Corral de Piedras Creek, it will be beneficial to the basin.</p> <p>Improvement of irrigation efficiency is considered as a management action in Chapter 9. However, it should be noted that improvements in this areas result in decreased amounts of irrigation return flow, so the net impact to the aquifer may be less than anticipated. Comments on proposed SMCs are noted.</p>

Name	Comment Subject	Comment	Date/Time	Response
June Mclvor	Workshop #3 Sustainable Goal Setting	<p>Dear SLO Water Basin GSC: Phase 2 Cellars, LLC dba Tolosa Winery appreciates the opportunity to provide input on the SLO Basin Groundwater Sustainability Plan. As we acutely feel the encroachment of commercial development right up against our surrounding vineyards, it is more important than ever to take steps which allow agriculture in Edna Valley to thrive as well as to protect the city's defining green belt.</p> <p>Setting the key goals and targets for management of the SLO Basin is the essential foundation of sustainability of the basin and of our critical agriculture industry. It must not be done on incomplete or erroneous data, and time should be taken to make sure data is accurate upon which to base management decisions. We are in favor of taking the first 5 years to gather good data, including improved monitoring that includes: stream gauges, strategically located monitoring wells, review of the drilling logs of each monitoring well, and ideally, robust monitoring of water levels in all wells every month of the year.</p> <p>While this data is collected and analyzed, we need to proceed cautiously with no required reduction in pumping; MT-3 is the most appropriate threshold. We also believe there is more that can be done to augment our basin. Opportunities include: Obtaining tertiary treated water from the City of SLO, rather than that valuable water being dumped to the ocean; Adoption of water conservation measures by all users in the Basin, not just by agriculture; Releases from the Righetti Dam into the West Corral de Piedra Creek, as required; Golden State Water purchasing water from the State Water Pipeline instead of using water from the Edna Valley Basin; Sentinel Peak Resources could discharge their R.O. water further up Corral de Piedra Creek, rather than the current discharge that goes out to the ocean.</p> <p>With all of these opportunities for augmenting the basin, we believe that MO-4 is the logical objective.</p> <p>Thank you for your consideration.</p> <p>June R. Mclvor President & CEO Phase 2 Cellars, LLC dba Tolosa Winery</p>	11/2/2020 12:05	Additional data will be collected in the first 5 years through improved monitoring well and stream gage networks. The projects that you mention are considered as potential sources for supplemental water. Comments on proposed SMCs are noted.

Name	Comment Subject	Comment	Date/Time	Response
Brent Burchett	Workshop #3 Sustainable Goal Setting	<p>These comments are submitted on behalf of the San Luis Obispo County Farm Bureau to provide additional stakeholder input on the Draft Options for Basin Sustainability Goals Stakeholder Workshop #3 (October 1, 2020) Presentation Slides.</p> <p>Based on feedback from farmers in the SLO Valley Basin, we recommend Minimum Threshold 3 and Measurable Objective 4. We share the goal of all basin stakeholders to achieve sustainability for all users, whether residential, municipal, or agricultural. As we detailed in comments submitted on September 30, 2020 regarding Chapter 6-Groundwater Budget, there are currently too many significant data deficiencies to proceed down a path of immediate cuts to farmers in the Basin. The current reliance on production wells as a data source creates inaccurate information for GSA decision-makers, and should be replaced over the next five years with monitoring wells.</p> <p>Our initial priority needs to be building a monitoring network to guide our actions in the decade to come. As we have not exhausted opportunities to supplement our existing water resources with sources like tertiary treated water from the City of San Luis Obispo, State Water, or water being released into the ocean, it would be reckless to balance the Basin solely on the backs of our farmers. Adopting Minimum Threshold 2 (Higher Water Levels than Recent Low Drought Water Levels) for any or all wells may be politically expedient, but such an approach could fail to actually achieve sustainability if assumptions about groundwater impact from specific farms or areas in the Basin are miscalculated.</p> <p>We do not want additional data monitoring for the sake of delaying negative impacts to agriculture. Rather, our Farm Bureau wants farming in the Edna Valley to remain viable for the next generation, and our City and County leaders have an obligation to sustain Edna Valley agriculture's essential contributions to our City and County's economy and quality of life. We know farmers will have to participate in a more robust well monitoring network, and we may have to make changes that affect agriculture, but let's equip our GSA to do so armed with better information than we have today.</p>	11/2/2020 12:10	Comments on proposed SMCs are noted. The well monitoring network has been improved from 12 wells to 40 wells. potential projects mentioned for supplemental water are being considered in Chapter 9. The significance of agriculture to the local economy is recognized by the GSAs.

Name	Comment Subject	Comment	Date/Time	Response
Robert Schiebelhut	Workshop #3 Sustainable Goal Setting	<p>Some Additional Water Augmentation Suggestions: The ag community has been and continues to be committed to pursuing various feasible water augmentation projects. In addition to those that are under discussion, I would like the consultants and staff to consider the area under the Edna sub basin--the bedrock--as a potential source of water for our sub basin. Our sub basin does have active faults and may have water flows in the bedrock with enhanced recharge--or even a large captured pool of water. Can we initiate surface reconnaissance employing geophysics--e.g. seismic, magnetic, ground penetrating radar etc? Favorable indicators would justify deep drilling in the hope of locating important additional water sources. Also, the written materials presented to date show a good number of wells that extend into the bedrock, and in some cases, quite deep. Can we evaluate the drilling logs and production records of these wells to develop information to supplement our reconnaissance efforts? Additionally, would it make sense to explore potential important water sources not yet tapped up in our watersheds? I would appreciate our consultants and staff views on this as well. Thank you for your consideration. Bob Schiebelhut</p>	11/2/2020 16:29	Water from bedrock wells is possible. The applicability of surface geophysical method to identify fracture patterns would need an independent evaluation. Comment Noted.
Jena Wilson	Workshop #3 Sustainable Goal Setting	<p>The Righetti Dam releases into the creek need to be enforced. This is over 600 acre feet of water that should be flowing into the creek and into the basin.</p> <p>Golden State Water needs to start purchasing water from the State Water Pipeline so that they are not using water from the Edna Valley Basin. Golden State currently has a Selenium issue with their water as brought up by Toby Moore in the Workshop. This could alleviate this Selenium issue to all other Domestic water users in the Basin.</p> <p>We need to Augment Water storage with Sentinel Peak Resources R.O. water by discharging the water that is currently going out to the ocean, further up the Corral de Piedra Creek.</p> <p>Corral de Piedra creek needs to be brought back to life to save the fish. If this were done using surface water, then our basin would be in a plus balance.</p>	11/2/2020 17:42	The terms of the surface water diversion permit associated with Righetti Reservoir are under the purview of the State Water Board. To the extent that this process results in any additional water being released to West Corral de Piedras Creek, it will be beneficial to the basin. The State Water and Sentinel Peak projects are evaluated in Chapter 9.

Name	Comment Subject	Comment	Date/Time	Response
Jean-Pierre Wolff	Workshop #3 Sustainable Goal Setting	<p>I would like to take this opportunity to express my appreciation for the significant effort put forward by the County of San Luis Obispo, the City of San Luis Obispo, the representatives of the Edna Valley, the consultants and the numerous volunteers who have contributed to this GSP thus far. When addressing water, the history of California has shown that it is at times challenging to decouple emotions and personal interest from science. In addition, the accurate projections of drought impact to hydrological models requires allowances for margin of error due to unknowns.</p> <p>Based on the various scenarios presented at the GSP workshop of October 1, 2020 I suggest that the Minimum Threshold alternative should be MT-1 based on the most recent significant drought. The Measurable Objective alternative should be based on M-4 allowing time to address and implement water conservation measures, water augmentation alternatives and applied innovation in water technology. During this ongoing GSP development, I suggest that a refresher evaluation be made in the Edna Valley agricultural land use and its associated ground water extraction to validate the various models assumptions.</p> <p>The successful implementation of the GSP will require three distinct efforts and course of action.</p> <p>Firstly, water conservation will need to become an integral part of the solution in order to meet the MO and MT. The agriculturists of the Edna Valley have already demonstrated some of these initiatives with ongoing implementations.</p> <p>Secondly, water augmentation must be addressed sooner than later. This year, our Governor has made a priority for California to reduce the impact of droughts and climate change through water portfolio diversification. The San Luis Obispo and Edna Valley Basin is in a unique position to address this issue. A good example are the opportunities for recycled water from the City of San Luis Obispo recently upgraded water treatment plant with its emphasis on recycled water and the nearby Price Canyon oil fields high quality recycled water production through reversed osmosis technology. Another opportunity of water augmentation is improved management of the upstream reservoir permittee to leverage conjunctive benefits of West Coral de Piedra Creek such as the downstream public trust surface water aquatic environmental benefits and ground water recharge through percolation.</p> <p>Lastly, technology innovation will need to become part of the long-term solutions such as precision farming utilizing soil moisture sensors, local weather stations, accurate well monitoring to name a few.</p>	11/2/2020 17:49	<p>Comments on proposed SMCs are noted. Water conservation, water augmentation will be integral to future management of the Basin. Management of Righetti Reservoir could improve the conjunctive use of SW and GW resources in the Basin and contributing watershed.</p>

Name	Comment Subject	Comment	Date/Time	Response
Chris Darway	General Comments	<p>1. Page 29 shows a gain of 5970 AFT for years 2016 -2019. The graph shows an upward trajectory for Edna. Table 6-14 should show the amount of storage for 2016. By not doing so, we miss the great increase from 2016-2019--most likely due to greater rain plus conservation efforts. Since the SLO subarea was stable during 2014-2016, the 5970 increase is in Edna--probably rising from about 100,000 AFT in 2016 to 105, 630 in 2019. Impressive and not apparent because 2016 numbers are not shown.</p> <p>2. There are two lines of numbers that are curious. 1/3 of the years show stream outflow exceeds inflow: 1993, 1997, 2000,2001,2003 , 2005, 2006, 2011, 2016, and 2019. All these years are Wet of Above Normal, except 2016 Below Normal. Is this due to infiltration and / or GW/SW intersection? Does this make sense to you? Similar question regarding ET evaporation: In 8 Dry years, the evaporation essentially equaled the precipitation:</p> <p style="padding-left: 40px;">Precip ET Evaporation 1987 6780 6610 1990 5960 5860 2007 3810 3800 2009 5170 5100 2013 4640 4600 2014 4590 4550 2015 5230 5160 2018 6130 6020</p> <p>The numbers above don't make sense.</p>	11/3/2020 13:39	<p>Tables 6-1, 6-2, 6-3 present annual water budgets for all water years from 1987 to 2019. Table 6-14 only indicates years for which water level maps were generated to estimate changes in storage between those years. It is often not possible to see significant changes in water levels in a basin scale map from year to year. Stream outflow could exceed inflow because there a greater area of contributing watershed; so that fact that wet years show greater SW outflow is not problematic. In dry years, ET can be approximately equal to precipitation, indicating most water is being used or evaporated, and little runs off.</p>
Chris Darway	General Comments	<p>How can consultants come up with a Sustainable Yield of less than 4000 AFY in a basin, when the Basin contains Groundwater Storage Estimates of an average of 120,000 AF? This Sustainable yield is only 3% of the storage.</p>	11/3/2020 13:40	<p>Safe yield is not a function of groundwater in storage. For example, Paso basin has about 30million AF storage but only 60,000 AFY safe yield (0.2%). Safe yield is determined by stopping storage and water level declines; it is not a function of total groundwater in storage. Sustainable yield and storage are not directly correlated.</p>
Earl Darway	General Comments	<p>Why is 2016 data being excluded? I keep rereading the Water Budget material and came across the reasoning for those years at p 22: "These years include the beginning and ending years in the base period, along with sufficient intervening years to characterize change in storage trends through the base period". This is highly discretionary. Look at the intervals between the years chosen: 4,5,3,7,6,3 and 5 years. More important, by excluding 2016, they allow the argument that the 2014 low point will not be the low point going forward, when an equally valid point is that the 2016-19 trend indicates an upward trend in storage. If increasing storage, where is the overdraft?</p>	11/3/2020 13:40	<p>2016 data is not excluded from the water budget. Groundwater storage is estimated by the water budget for all years using all the available data over the base period in Tables 6-1, 6-2, 6-3. The years selected for estimating storage using the specific yield method were to calibrate the beginning and end of the base period and to illustrate storage trends. They do not change the overall decline in storage over the</p>

Name	Comment Subject	Comment	Date/Time	Response
				base period or the estimated overdraft. Yes, 2016-2019 shows an upward trend in storage in the water budget, but this was also a wet period that followed a severe drought. Overdraft takes into account both wet and dry periods.
Earl Darway	General Comments	The graph for pumping does not have an accurate trajectory for two reasons: (1) the trajectory for 2007 to 2019 should be down and not up; and (2) the trajectory being down since 2015 is dramatic. Conservation measures after the drought.	11/3/2020 13:41	Assuming we are talking about Figure 6-8, the trajectory for groundwater extraction is shown as decreasing pumping from 2007-2019. The visual trajectory appears “up” only because the bars are below the zero line, so a decreasing trajectory is toward the top of the page.
Earl Darway	General Comments	On page 44 why did you choose the years shown in table 6-14? There were 21 representative wells (note some of our wells weren't developed until the early 1990's) and then select the years for water levels without any explanation as to why those years?	11/3/2020 13:43	The years selected for estimating storage using the specific yield method were to determine storage at the beginning and ending of the base period and to illustrate storage trends. This is mentioned on page 22. The specific years selected do not change the overall decline in storage over the base period or the estimated overdraft.
Chris Darway	General Comments	Additional comment: Page 29 shows a gain of 5970 AFT for years 2016 -2019. The graph shows an upward trajectory for Edna. Table 6-14 should show the amount of storage for 2016. By not doing so, we miss the great increase from 2016-2019--most likely due to greater rain plus conservation efforts. Since the SLO subarea was stable during 2014-2016, the 5970 increase is in Edna--probably rising from about 100,000 AFT in 2016 to 105, 630 in 2019. Impressive and not apparent because 2016 numbers are not shown.	11/3/2020 13:43	Not finding referenced gain on page 29, but storage increase between 2016-2019 is estimated by water budget. Focusing on a partial rebound following severe drought doesn't resolve big picture.

Name	Comment Subject	Comment	Date/Time	Response
Karen Merriam	General comments	<p>I am directly affected by the sustainable groundwater planning underway for the Edna Valley. I purchased 10 acres on Tiffany Ranch Road at the south end of the Edna Valley in 1996. There was no vegetation or structures on the land. There was a well that was drilled in 1989 to 115 ft. This well yielded fresh, abundant water from 60+ ft. below the surface when I began pumping in 1997 when I built my home on the property. In 2016 my well ran dry. It cannot be recharged and no further drilling is possible in that location. When I bought my property in '96, most of the land was dry land farming and cattle ranching. As documented, there has been exponential growth of irrigated agriculture on most of the land now surrounding my 10 acres and throughout Edna Valley. (I should note that I know of at least two neighboring wells that have also gone dry.)</p> <p>In 2016, after consultation with Tim Cleath, I was fortunate to find potable water after drilling to 300 ft in the corner of my property farthest from the original well. My understanding is that this is the only area on my property where a productive well can be placed. The cost of drilling, laying new water and electric pipes, etc. exceeded \$30,000 four years ago.</p> <p>I am concerned that if present levels of demand for drawing on the Edna Valley water continue to expand, even my new well will not be sustainable. If the new well should fail, then my property will lose all value and will not be habitable. The excellent and thorough hydrogeologic mapping of the Edna Valley clearly shows that in the south end of the valley where my property is located, there is poor recharge available compared to other areas such as Coral de Piedra. Therefore, I strongly urge those who represent individual property owners such as me to support sustainability goals based on the data provided, and on consideration of drought resilience and equitable distribution of risk and cost. Minimum Water Levels should go no lower than levels observed at the 2015 drought culmination. According to all projections from climate scientists, the extremes of heat and drought we are now experiencing will likely only increase. It would be foolish to ignore this data. For this reason, I believe that we should plan for minimum higher water levels than recent recorded low drought water levels: Minimum Threshold Alternative #2.</p> <p>Thank you for your consideration of these comments.</p>	11/17/2020	Comments on proposed SMCs are noted. It is documented that smaller wells or wells on the margin of the basin have gone dry due or been removed from production due to declining water levels.

Name	Comment Subject	Comment	Date/Time	Response
George Christensen	DRAFT Chapter 7 - Monitoring Networks	<p>January 22, 2021 Comments on Chapter 7 - Monitory Networks for the SLO Basin GSP George Christensen Vegetable grower and resident - Edna Valley. A successful groundwater sustainability plan needs to include ALL consumers of the SLO basin. It has been brought to my attention that the currently proposed SGMA regulations only apply to MOST consumers of water in the SLO water basin, not ALL consumers. I believe that there are several hundred residential/domestic consumers who are not included in the scope of the SGMA. This is unreasonable as those unregulated consumers can and will certainly impact the basin's performance. If the SGMA is to be equitable, it must encompass all consumers including domestic/residential, commercial, industrial and agricultural in the SLO basin. Not representing all members from each group is unfair to both the regulated and unregulated groups. All consumers, regardless of size/capacity must be considered and included in the GSP. The challenge of shallow domestic wellsite has been said many times that one of the major goals of the GSP is to protect/prevent residential wells from going dry in drought conditions. While this is important, it cannot be the primary overriding goal of the GSP. Shallow residential wells have always been a concern during drought conditions in the Edna Valley. Homeowners with shallow wells are victims of poor decisions usually due to lack of information. 'Right sizing' a residential well is the responsibility of the homeowner similar to ensuring the main electrical panel is sized large enough to support normal household operation. Just like upgrading the electrical panel on older homes is sometimes required to support changes in the home/lifestyle, so is upgrading the well to ensure an adequate water supply. The onus to remove the risk of residential wells going dry is solely on the homeowner, not on the homeowner's neighbors. It would be unfair to penalize the homeowner's neighbors simply because they failed to 'right size' their well. I suggest that official guidelines/recommendations be generated for both new and existing homeowners in the Edna Valley to help them right size their residential well. The Righetti reservoir: Edna Valley basin's single biggest influencer.</p> <p>The Righetti reservoir has been around for 50+ years and in that time it has had a significant impact on the Edna Valley basin. The challenge is to understand what kind of impact, the size of the impact and mechanics of the impact. There are many theories and postulations, but none that I have found based upon actual hard facts. I believe that the reservoir has a significant impact on the Edna Valley basin but I lack data to substantiate that belief. I strongly encourage the GSP to include streamflow meters both in the watershed area above the reservoir and in the West Corral de Piedra creek immediately below the reservoir to improve our understanding of the impact of the Righetti Reservoir. Only then can we include the reservoir in the GSP. Good Data enables Good decisions And of course the corollary to the above statement is that poor or incomplete</p>	1/22/2021 14:50	<p>All well users are included in estimates of Basin pumping. However, domestic users who pumps less than 2 AFY (de minimis extractors) cannot be required to be metered by SGMA. Improved data on location of these wells would be useful. It is up to the GSAs to decide how de minimis extractors will be incorporated in the management of the basin via the GSP or with other regulation. Most shallow wells were right-sized for conditions at the time of installation and provided adequate production for domestic use at the time. Stream gages have been proposed for Streams in Edna Valley. The terms of the surface water permit for Righetti Reservoir are under the purview of the State Water Board. To the extent that process results in increased releases to Corral de Piedras Creek, it will be beneficial to the Basin. It is anticipated that a program will be implemented to improve data on the construction of the monitor wells. However, the primary data gathered from these wells in the future is water level data, which will be dependable and useful in basin management.</p>

Name	Comment Subject	Comment	Date/Time	Response
		<p>data will drive bad decisions. This is evidenced in several places in Chapter 7, but I will specifically focus upon Table 7-1. There are 18 wells listed for the Edna Valley. 9 of the 18 wells (50%!!) are missing either well depth, screen intervals or both. How can we expect good decisions when 50% of the critical data is missing? There isn't any way a credible prediction of wells going dry can be made with these critical pieces of data missing. EV-10 is indicated to have a State Well Completion Report. If that is true, then why isn't First Data Year, Last Data Year, Data period and Data count included? Is this just a simple oversight or a sign of a less than thorough inspection of data presented to the public? The summary is simple: We do not have enough high fidelity, accurate data today to drive major decisions.</p>		

Name	Comment Subject	Comment	Date/Time	Response
Keith Watkins	General Comments	Developing an adequate monitoring plan is crucial to developing operational plans for maintaining our basin. To develop good information, we need to invest in several new monitoring wells and track them for multiple years to be able to really know what our groundwater levels are doing. Chapter 7.1.2--The list of criteria is in many respects too vague. What does "proximity and frequency of nearby pumping wells" mean? Specifically, what is the minimum distance from other wells? How much "frequency" of nearby wells mean is allowed? What does "spatial distribution relative to the applicable sustainability indicators" mean? Same questions for "Groundwater use" and "impacts on beneficial uses and Basin users." In other words, how are we to know how to apply these criteria to evaluate the selection of the Representative Wells?	1/26/2021 8:43	Most of this text comes from the DWR BMP documents. We wouldn't want a monitoring well immediately adjacent to an active pumping well, but there is no set numerical distance criteria. Spatial distribution simply means not clustering too many wells in one area. Most of these are considerations to be considered holistically in concert with one another while developing the monitoring network. We believe the new monitoring network of 40 wells adequately addresses these criteria.
Chris Darway	General Comments	Chapter 7.1.2--The list of criteria is in many respects too vague. What does "proximity and frequency of nearby pumping wells" mean? Specifically, what is the minimum distance from other wells? How much "frequency" of nearby wells mean is allowed? What does "spatial distribution relative to the applicable sustainability indicators" mean? Same questions for "Groundwater use" and "impacts on beneficial uses and Basin users." In other words, how are we to know how to apply these criteria to evaluate the selection of the Representative Wells?	1/27/2021 13:03	Most of this text comes from the DWR BMP documents. IT would not be desirable to have a monitoring well immediately adjacent to an active pumping well, but there is no set numerical distance criteria. Spatial distribution simply means not clustering too many wells in one area. Most of these are considerations to be considered holistically in concert with one another while developing the monitoring network. We believe the new monitoring network of 40 wells adequately addresses these criteria.
Chris Darway	General Comments	Table 7.1 -- Why monitor a well outside the Basin in Arroyo Grande water basin -- EV-18? 52 years of records and no depth of monitoring info.	1/27/2021 13:06	This well has been removed from the network and replaced with one inside the basin.
Earl Darway	General Comments	7.2.1 Groundwater monitoring. This states there are a total of 40 monitoring wells in both basins. This states that there are 18 monitoring wells in the Edna basin, however, when I look at the detailed information in table 7-1, of the 18 "monitoring wells", only 6 of these wells are deep enough to be used to monitor our groundwater, 4 of these 6 wells are being used of Ag irrigation, and 1 is a public supply well for GSW. This leaves only 1 well that is an official monitoring well as described in 7.1.2. and this well does not meet the criteria outlined to be an official monitoring well. We need to establish official monitoring wells that meet the criteria before we move forward.	1/27/2021 13:11	Ultimately the goal is to have a dedicated monitoring well network. However, we should start with what we have access to. There is no reason active wells cannot be used as monitoring wells as long as care is taken to ensure that wells are not pumping at the time of monitoring. This has been the data collection protocols for existing County groundwater level data. If a well is deep enough to intersect the water table, it is deep enough to monitor. Staff do not agree that the one dedicated monitoring well outlined by the commenter does not meet the criteria to be an official

Name	Comment Subject	Comment	Date/Time	Response
				monitoring well. This well has no pump, known construction details, and a dependable boring log.
George Donati	DRAFT Chapter 7 - Monitoring Networks	<p>I have 3 comments and 1 question:1.Chapter 7.1.3. Scientific rational -SGMA regulations require that the GSP identify sites that do not meet BMPs. Also, if wells lack construction info, the GSP shall include a schedule to acquire monitoring wells with all the necessary information. As Table 7-1 shows, there are many wells that do not have BMP's and lack construction information. We need this data on the individual wells please.2.Table 7-1. San Luis valley has 11 monitoring wells that are not being used for other purposes. All of these wells are less than 100 ft deep. Not sure if this is deep enough to qualify the criteria. Edna Valley area has only 2 monitoring wells that are not being used for other purposes. One of these wells is very shallow at only 150 ft deep. EV 14 is a monitoring well and is the only well that meets the criteria in the entire Edna basin. Many wells outlined in table 7-1 are missing information which is required, or they are being pumped for Ag or Domestic purposes and will not give accurate data for monitoring the Edna basin. Should we have more proper monitoring wells so that we can monitor our ground water properly? Can we use the first 5 years to set this up?3.Table 7-2. They are asking for a monitoring well east of Crestmont road. John Silva's property, just east of the intersection of Crestmont and Hwy 227 has 4 wells and one of these could work. Please contact me if you are interested in one of these wells. Question - Just below this comment box on your web site there is a statement -While attachments (e.g., letters) will be read and considered, individual comments entered using the form will receive a response for each comment.I have never received a written response to any of my previous comments. Is there a plan to do this? Thank you, George Donati</p>	1/27/2021 13:53	<p>An ideal monitoring well is a well that meets all criteria, and a goal would be to move toward a complete network of dedicated monitoring wells. However, this should be considered a goal, not a requirement. We must move forward with what is available. There is nothing wrong with using active wells as monitoring wells as long as the wells cease pumping prior to the monitoring event. This has been the data collection protocols for existing County groundwater level data. Shallow wells (150 feet or less) are adequate for monitoring as long as they intersect the water table. We were unaware of the Silva well, that could be useful, we will contact you regarding that well. Yes, we are posting all initial responses to comments online for viewing. We will also incorporate the responses or any changes into the chapters as appropriate when they get finalized as a compiled document.</p>

Name	Comment Subject	Comment	Date/Time	Response
Robert Schiebelhut	DRAFT Chapter 7 - Monitoring Networks	<p>Many in the Edna Valley believe that the SGMA process should include consideration of the actual impact of the Righetti reservoir on the Edna sub basin. There has never been a hydrology connecting the two. The State recognizes the nexus between the two. On February 21, 1991, the State Water Resources Control Board expressly reserved jurisdiction to modify the terms of the Righetti permits based on "the findings of the hydrology study now in progress of the Pismo Ground Water Basin and the Edna Valley. The study will include a safe yield estimate of the basin" (State Water Resources Control Board Order WR 91-02, page 8). The referenced study was never completed even though 30 years has passed. SGMA requires an appropriate study of the relevant factors to determine safe yield, and therefore our process should include a complete review of the impact of the Righetti reservoir on the Edna sub basin. In Chapter 7, page 119, the chart states that the Righetti Reservoir (one of the largest privately owned in California) is a beneficiary of about 21% of the Pismo watershed. The important watershed for determining the actual impact of the Reservoir is the West Corral de Piedra watershed. The State Water Resources Board's Decision 1672 (dated November 27, 1990 found that the Righetti Reservoir captures the stream flow of approximately 3000 acres of the 5300 acre West Corral de Piedra watershed--57%, not just 21%. This higher percentage reflects the substantial impact of the reservoir. Chapter 7.2.3.1 recommends two gauges for West and East Corral de Piedra at Orcutt Road. Why not a gauge above the Righetti Reservoir to better determine the actual stream diversion, rather just "estimating"? If we are to pay for measuring well #EV-18 which is outside the Basin, why not pay for a new gauge above the Basin, in the watershed for West Corral de Piedra?</p>	1/28/2021 16:32	<p>The terms of the surface water diversion permit associated with Righetti Reservoir are under the purview of the State Water Board. To the extent that this process results in any additional water being released to West Corral de Piedras Creek, it will be beneficial to the basin.</p> <p>Monitoring well EV-18 has been removed from the network and replaced with a well in the basin.</p>
Brian Talley	DRAFT Chapter 7 - Monitoring Networks - 7.2 MONITORING NETWORKS	<p>A consistent concern for me is that we don't have enough data to make informed decisions about pumping restrictions. Let's take the prudent approach of studying our basin over the next 5 years to insure that we don't make rash decisions that threaten the sustainability of agriculture in the basin. In particular, we need representative monitoring wells. Landowners, myself included, are willing to provide locations for these wells. We also need a better understanding of the amount of diversion that is occurring as a result of the Righetti Reservoir. In-stream gauges should be installed both above and below the dam to quantify the diversion and ensure compliance with state permits.</p>	1/30/2021 8:50	<p>The monitoring well network has been increased from 12 to 40 wells. If there are additional locations available for MWs in areas with data gaps it could be helpful as we contemplate installation of new dedicated MWs. We will stay in touch.</p>

GROUNDWATER SUSTAINABILITY COMMISSION
for the San Luis Obispo Valley Groundwater Basin

March 31, 2021

Agenda Item 7 –SLO County State Water Project Update
(Presentation Item)

Recommendation

Receive a presentation discussing the SLO County State Water Project concepts for the SLO Basin.

Presentation Prepared by

Courtney Howard – County of San Luis Obispo

Discussion

One of the top supplemental water supply projects considered in the GSP is the delivery of the State Water Project (SWP) water to the SLO Basin. In 1963, the District signed a long-term water supply contract (Contract) with the California Department of Water Resources (DWR) for an annual maximum allocation of up to 25,000 acre-feet per year (AFY) of water from the SWP. This is the capacity allocated to the District in the California aqueduct. In the 1990s, eleven agencies (Subcontractors) entered into Water Supply Contracts with the District (Subcontracts) for the option to take delivery of 4,830 AFY of treated SWP water. Accordingly, the District entered into agreements for the treatment and delivery of 4,830 AFY through the infrastructure built in the 1990s to convey the water from the California aqueduct to Subcontractors. As of today, Subcontractors have also reserved an additional 5,707 AFY for use in years when DWR's SWP water allocations to the District are less than 100%, and that water is referred to as their Drought Buffer Amount.

Recently, on March 2, 2021, the County Board of Supervisors approved the Water Management Amendment to the Contract between DWR and the District, which will enable a broader flexibility to pursue water exchanges or transfers within the SWP. Courtney Howard, County Water Division Manager will present various conceptual scenarios to demonstrate how the SWP water may be utilized to augment water supplies to the SLO Basin to improve basin overdraft through the provisions of the Water Management Amendment tools.

GROUNDWATER SUSTAINABILITY COMMISSION
for the San Luis Obispo Valley Groundwater Basin

February 17, 2021

**Agenda Item 8 –Integrated Model Preliminary Results and Sustainable Management Criteria
(Presentation Item)**

Recommendation

- a) Receive a presentation on the preliminary model results of the proposed projects to achieve sustainability based on the recommended sustainable management criteria.
- Baseline Model Run
 - Supplemental Water to GSWC and MWC
 - Agricultural Pumping Reductions
 - Recharge Projects
 - Recommended SMC's

Prepared by

Dave O'Rourke, GSI
Michael Cruikshank, WSC

Discussion

The WSC Team, has been tasked with the preparation of the Groundwater Sustainability Plan (GSP) for the SLO Basin to meet the requirements of SGMA. As part of the preparation of the GSP an Integrated Groundwater Surface Water Model has been developed for the objective of evaluating the potential impacts of proposed projects and management actions associated with the GSP.

This presentation shows the preliminary results of scenarios that shows the groundwater level impacts of the high-ranking projects. The first run is considered baseline with no projects, 2019 pumpage maintained at a constant annual amount, and the future hydrology duplicating the 1995 to 2019 time series. This run will be used compare to other simulations with projects and management actions proposed to assess the effects of the projects. The remaining runs simulate the projects discussed at the March 1st, 2021 GSC meeting. The scenarios are presented as two types of projects, supplemental water projects and recharge projects. The supplemental water projects bring outside water sources to the Edna Valley and replace groundwater production. The recharge projects provide additional recharge to the Edna Valley and groundwater production is maintained. These model scenarios show how a combination of projects and management actions once implemented may meet the sustainable management criteria at the representative wells.

Various visual exhibits from the model results, including hydrographs, maps, conceptual graphics, etc., are presented to support the discussion. The WSC Team will present the recommended sustainable management criteria.

Attachments:

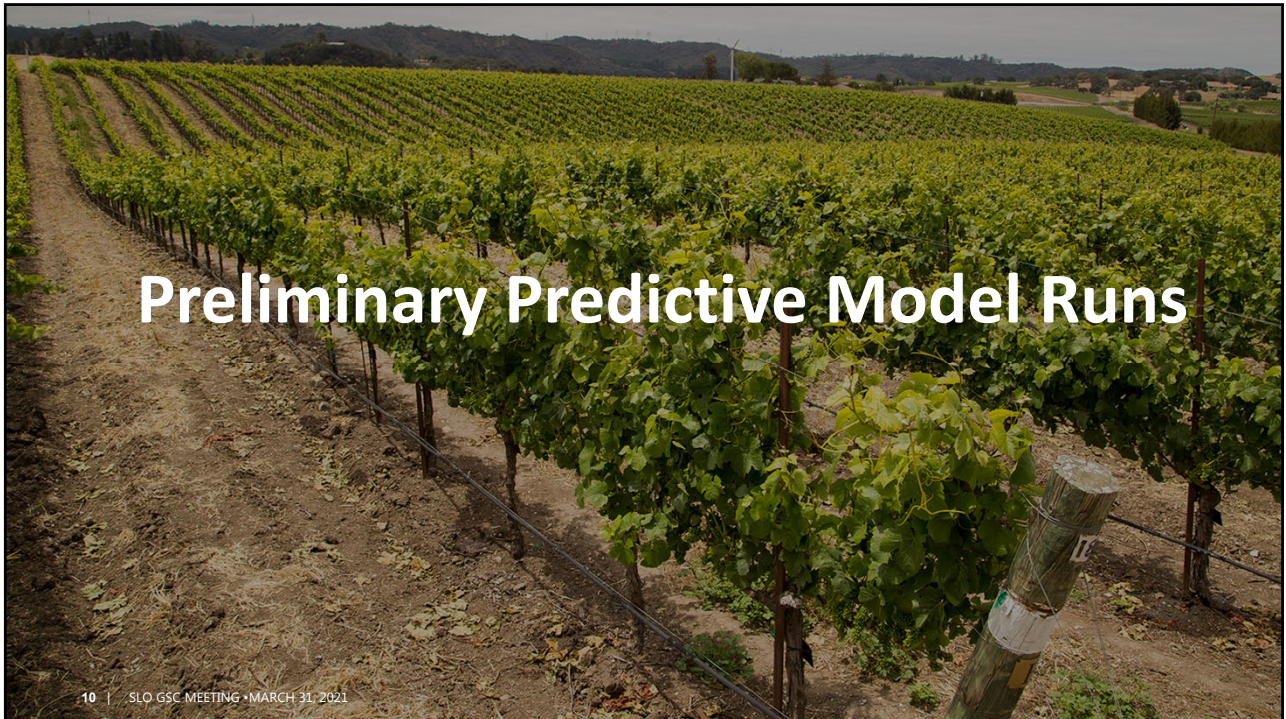
1. Presentation



Integrated Model Preliminary Results and Sustainable Management Criteria

Dave O'Rourke, Dan Heimel and
Michael Cruikshank

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Preliminary Predictive Model Runs

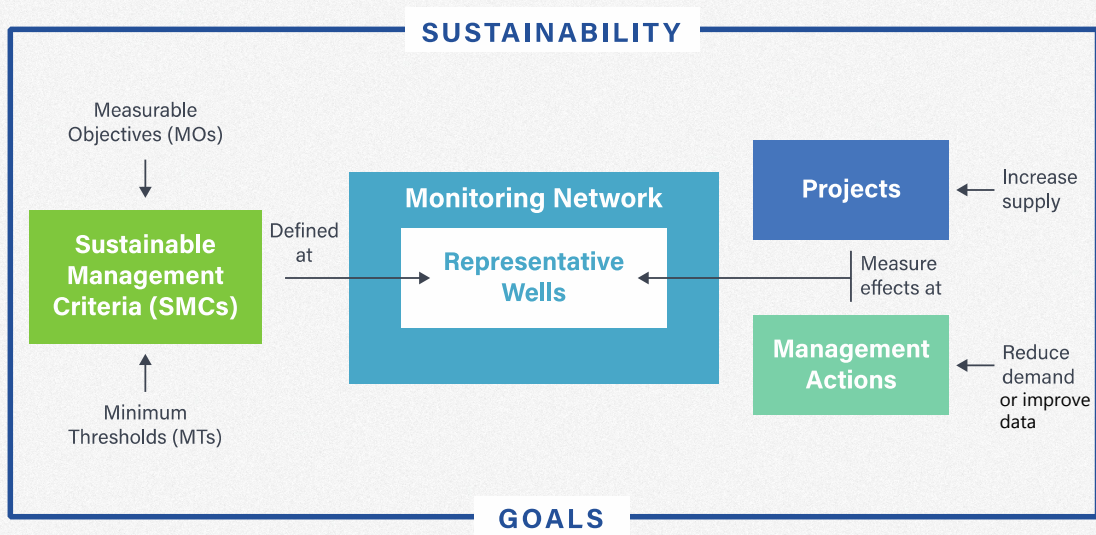
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Recommended Sustainable Management Criteria

Based on the comments received and additional modeling scenarios the MO's and MT's shown on the hydrographs in the following slides are the recommended SMC's and will be included in Chapter 8 – Sustainable Management Criteria.

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GETTING TO SUSTAINABILITY



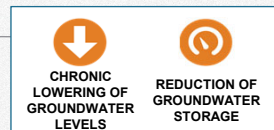
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SMC Analysis Reminders

- **MTs are more significant than MOs**
 - MTs are thresholds that define undesired conditions.
 - MOs are goals. No penalty for not meeting.
 - WLs can operate in the area in between.
- **Hydrographs of representative wells are non-uniform. Approach to SMCs is variable by location.**
 - Corral de Piedras Creeks convey significant recharge.
 - SE Edna Valley does not have this recharge source.
 - SLO Valley has had no declines.
- **Stakeholder-defined Principles of Sustainability.**
 - Equitably sustain diverse needs.
 - Supply resilience (drought).
 - Ecosystem health.
 - Equitable distribution of cost (and risk).
 - WQ maintained (non-degradation).
- **SMCs will be tested using model simulations.**
 - Various scenarios will be simulated, and water levels at the representative wells will be evaluated.

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MINIMUM THRESHOLDS



Minimum Threshold Alternative	Description	Pros	Cons
①	Recent Low Drought (2015) WLs	<ul style="list-style-type: none"> • Accounts for lowest historical water level • <10% domestic wells dry • Easily referenced and measured 	Doesn't consider drought worse than recent droughts
2	Higher WLs than Recent Low Drought WLs	Greater factor of safety than recent drought	More aggressive goal will be harder and more expensive to achieve.
③	Lower WLs than Recent Low Drought WLs	<ul style="list-style-type: none"> • Allows time for current trends to be reversed (glide path) • Allows for GW development in areas not currently impacted (City of SLO) 	Water levels may be lower than today's levels Higher risk of shallow wells going dry

Different rationales in SLO Valley vs Edna Valley
Consider saturated thickness







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MEASURABLE OBJECTIVE

Measurable Objective Alternative	Description	Pros	Cons
①	2011 WLs	Returns to Pre-Drought Conditions	No safety factor or recovery from previously lowered water levels
②	Current WLs	Incorporates recovery from recent drought	Does not incorporate recovery from current conditions
3	Current WLs + Recovery Factor (10-20 ft?)	Incorporates recovery above current conditions	May require more \$\$ for projects
④	Lower WLs than Current WLs	Allows time for current trends to be reversed (glide path) Allows for GW development in areas not currently impacted (SLO Valley)	Water levels may be lower than today's levels

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SUSTAINABLE MANAGEMENT CRITERIA

SUSTAINABILITY INDICATOR	 CHRONIC LOWERING OF GROUNDWATER LEVELS	 REDUCTION OF GROUNDWATER STORAGE	 WATER QUALITY DEGRADATION	 LAND SUBSIDENCE	 INTER-CONNECTED SURFACE WATER DEPLETIONS	 SEAWATER INTRUSION
METRIC(S) USED	Groundwater Elevation	Total Volume	- Migration Plumes - # of Supply Wells - Volume - Location of Isocontour	Rate and extent of land subsidence	Volume or rate of surface water depletion	Chloride Concentration Isocontour



SGMA allows all indicators but water quality to be assessed using **WATER LEVELS** as a proxy metric for direct measurement.

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WLS IN DOMESTIC WELLS DURING THE 2015 DROUGHT

More than 90% of domestic wells did not go dry based on the 2015 water level contour map (Recent Drought) in Chapter 5

15/155

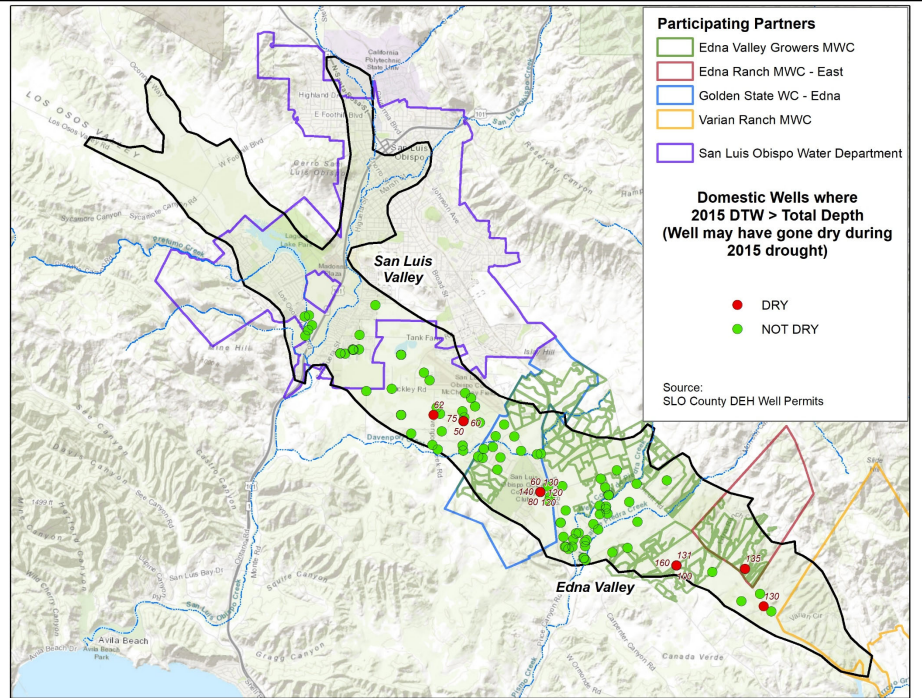


CHRONIC LOWERING OF GROUNDWATER LEVELS

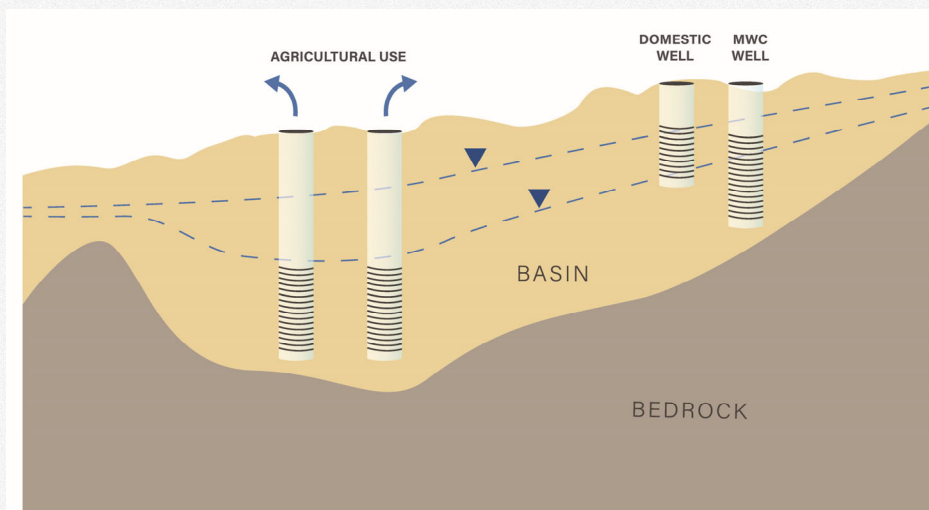


REDUCTION OF GROUNDWATER STORAGE

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EDNA BASIN CONCEPTUAL CROSS SECTION

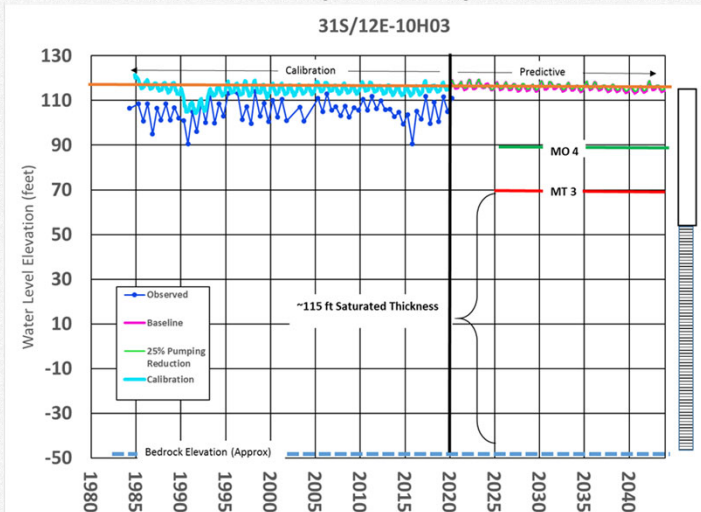


Updated Baseline Model Run

Baseline – No projects. 2019 pumpage maintained, with hydrology from 1995-2019. Used for comparison with other simulations.

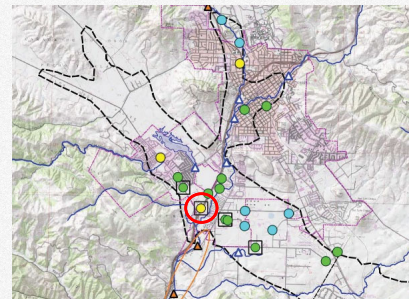
19 | SLO GSC MEETING • MARCH 31, 2021

REPRESENTATIVE WELLS - SAN LUIS VALLEY 31S/12E-10H03 (SLV-12)



Measurable Objective

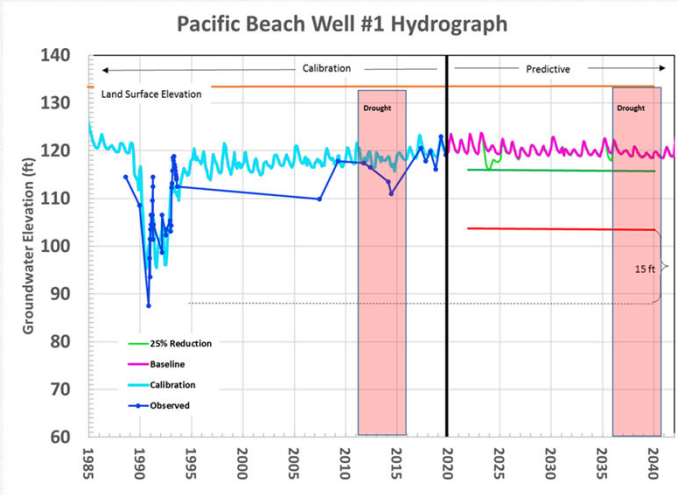
Minimum Threshold



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REPRESENTATIVE WELLS –SAN LUIS VALLEY

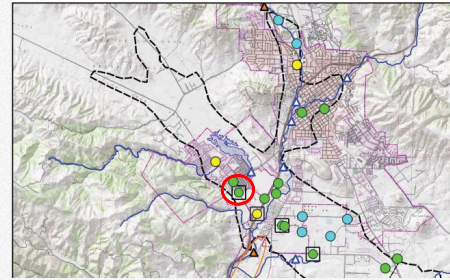
Pacific Beach 1 (SLV-09)



LAND
SUBSIDENCE

Measurable Objective

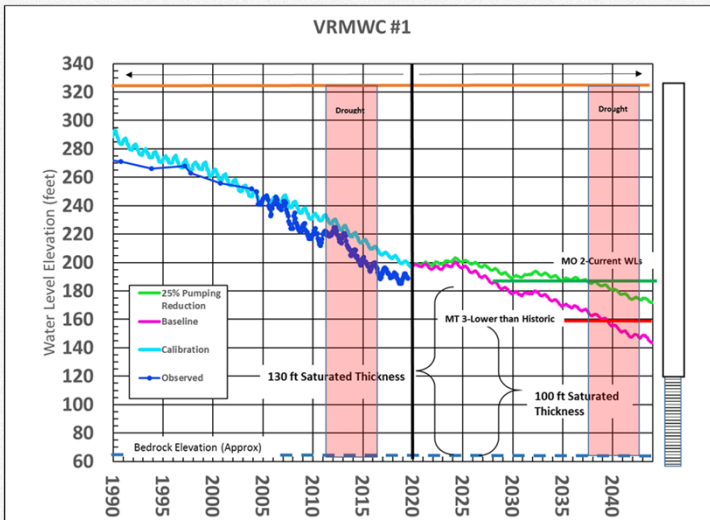
Minimum Threshold



21 | SLO GSC MEETING • MARCH 31, 2021

REPRESENTATIVE WELLS - EDNA VALLEY

VRMWC Well #1 (EV-16)



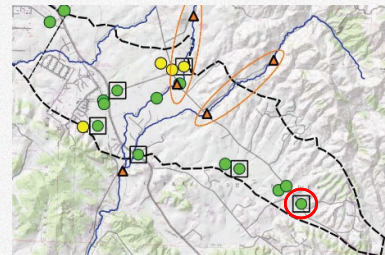
CHRONIC
LOWERING OF
GROUNDWATER
LEVELS



REDUCTION OF
GROUNDWATER
STORAGE

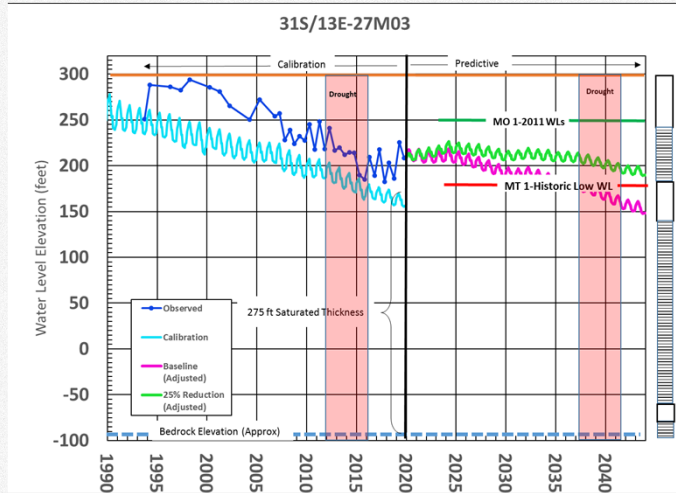
Measurable Objective

Minimum Threshold



22 | SLO GSC MEETING • MARCH 31, 2021

REPRESENTATIVE WELLS - Edna Valley 31S/13E-27M03 (EV-12)



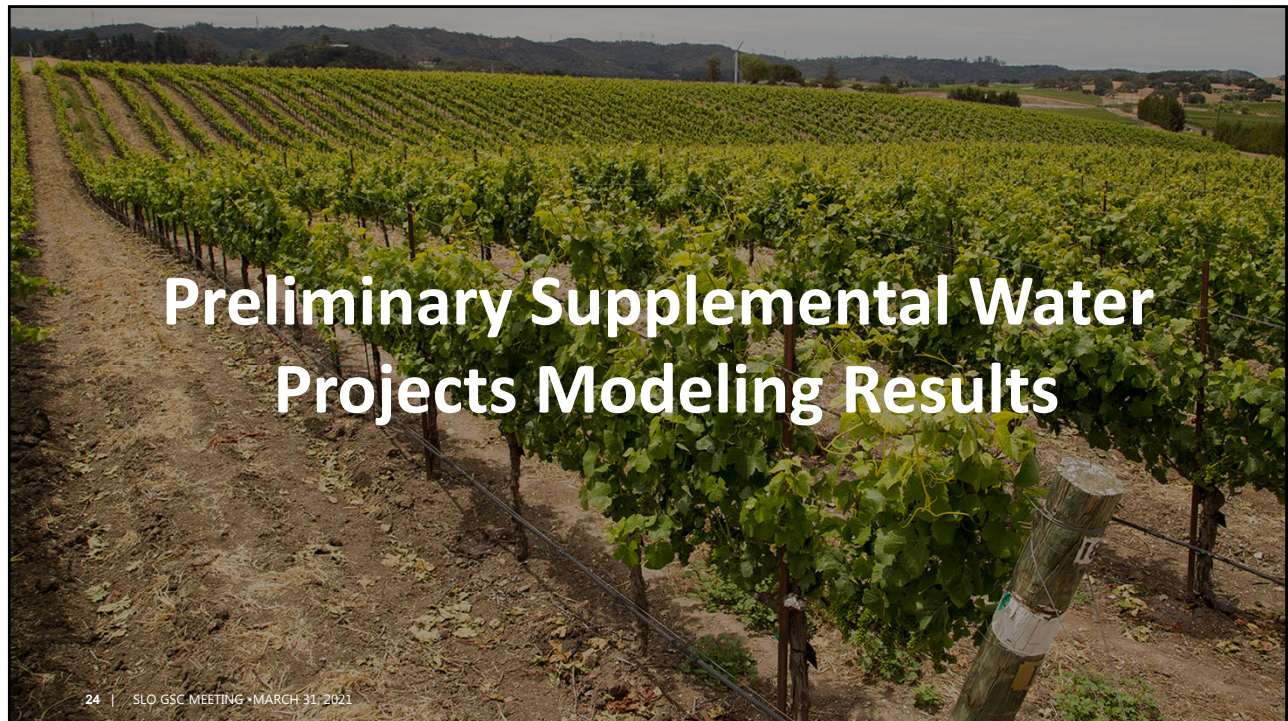
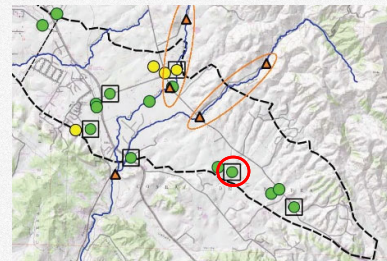
23 | SLO GSC MEETING • MARCH 31, 2021

CHRONIC LOWERING OF GROUNDWATER LEVELS

REDUCTION OF GROUNDWATER STORAGE

Measurable Objective

Minimum Threshold



Preliminary Supplemental Water Projects Modeling Results

24 | SLO GSC MEETING • MARCH 31, 2021

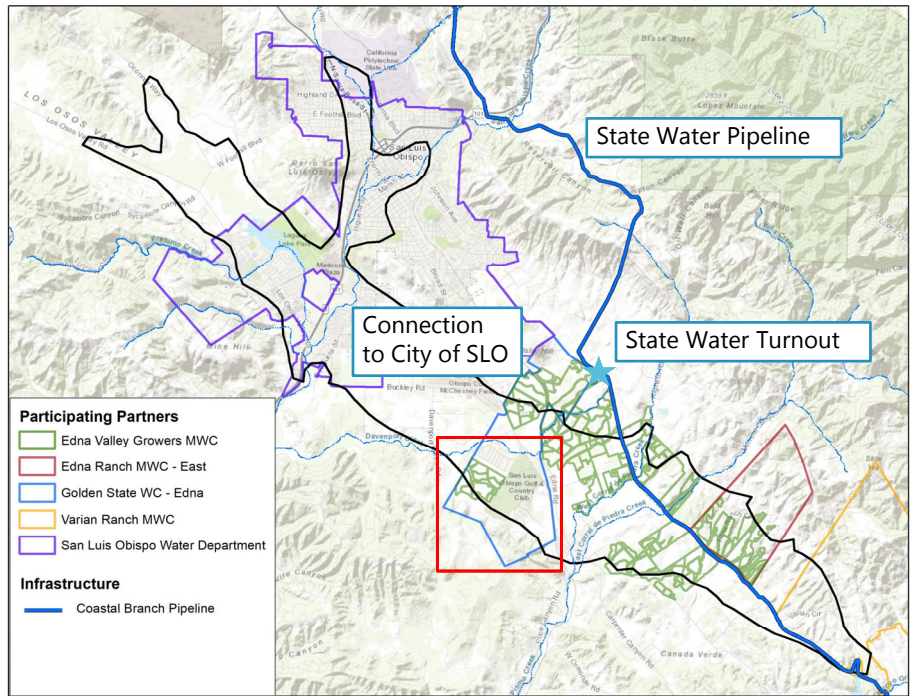
Supplemental Water to GSWC

Quantity: 200 AFY Direct delivery of either SWP or City of SLO potable water

Location of Delivery:
Golden State Water Co.
Edna Valley Service Area

Reduction in pumping by 200 AFY

Timing: Beginning in 2026



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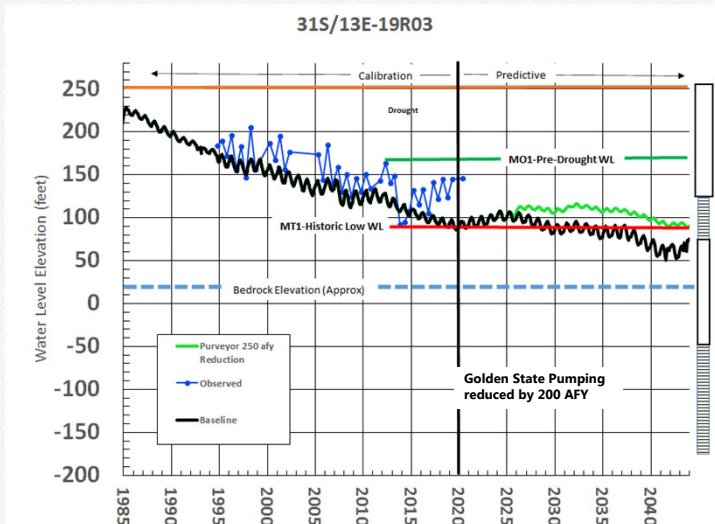
REPRESENTATIVE WELLS - EDNA VALLEY 31S/13E-19R03 (EV-09)



CHRONIC LOWERING OF GROUNDWATER LEVELS

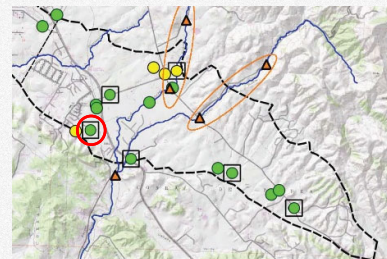


REDUCTION OF GROUNDWATER STORAGE



Measurable Objective

Minimum Threshold



26 | SLO GSC MEETING • MARCH 31, 2021

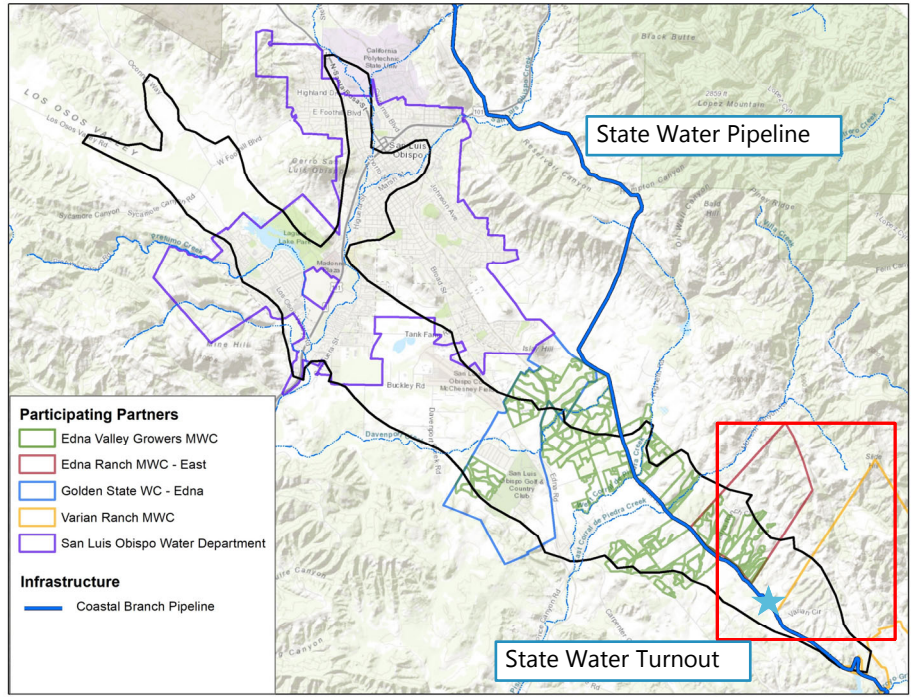
Supplemental Water to MWC

Quantity: 50 AFY Direct delivery of either SWP or Arroyo Grande Wells

Location of Delivery: Edna Ranch MWC and Varian Ranch MWC

Combined reduction in pumping by 50 AFY

Timing: Beginning in 2026



27 | SLO GSC MEETING • MARCH 31, 2021

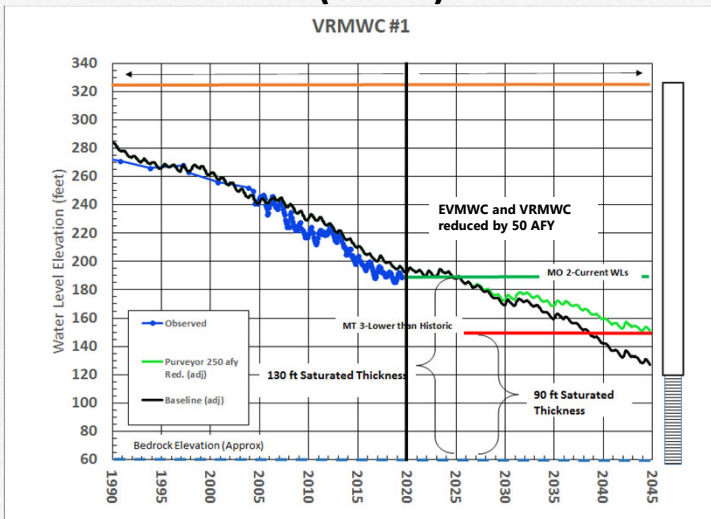
REPRESENTATIVE WELLS - EDNA VALLEY VRMWC Well #1 (EV-16)



CHRONIC LOWERING OF GROUNDWATER LEVELS

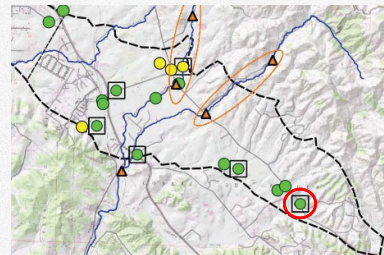


REDUCTION OF GROUNDWATER STORAGE



Measurable Objective

Minimum Threshold



28 | SLO GSC MEETING • MARCH 31, 2021

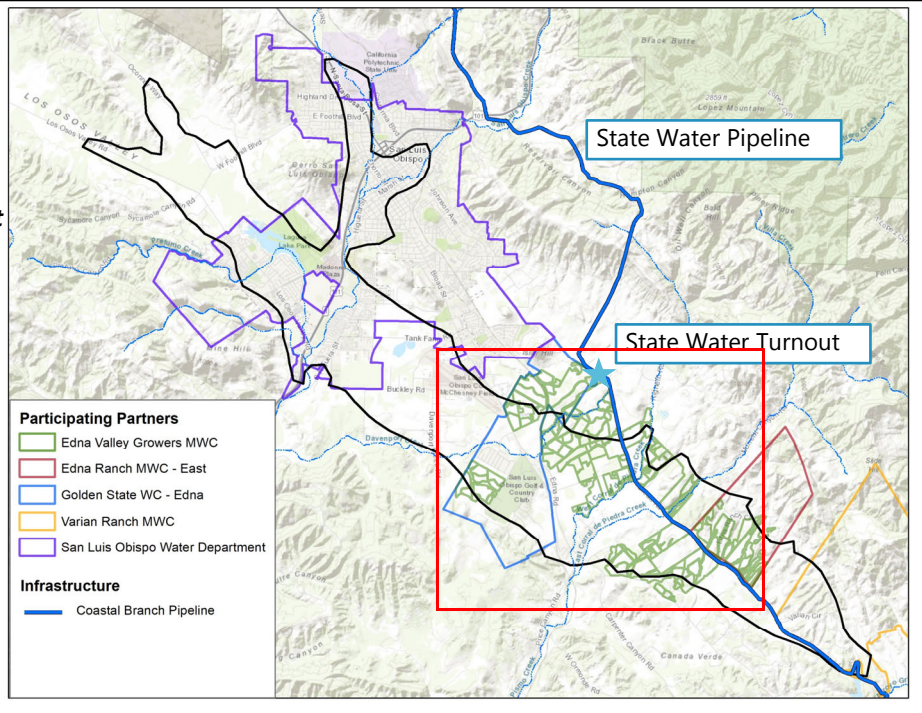
Supplemental Water – Ag Irrigation

Quantity: 1,000 AFY Direct delivery to agricultural users (a portion could be met using Price Canyon Water) City of SLO RW

Reduces groundwater production by 1,000 AFY

Location of Delivery: Area of declining groundwater in Edna Valley

29 | SLO GSC MEETING • MARCH 31, 2021

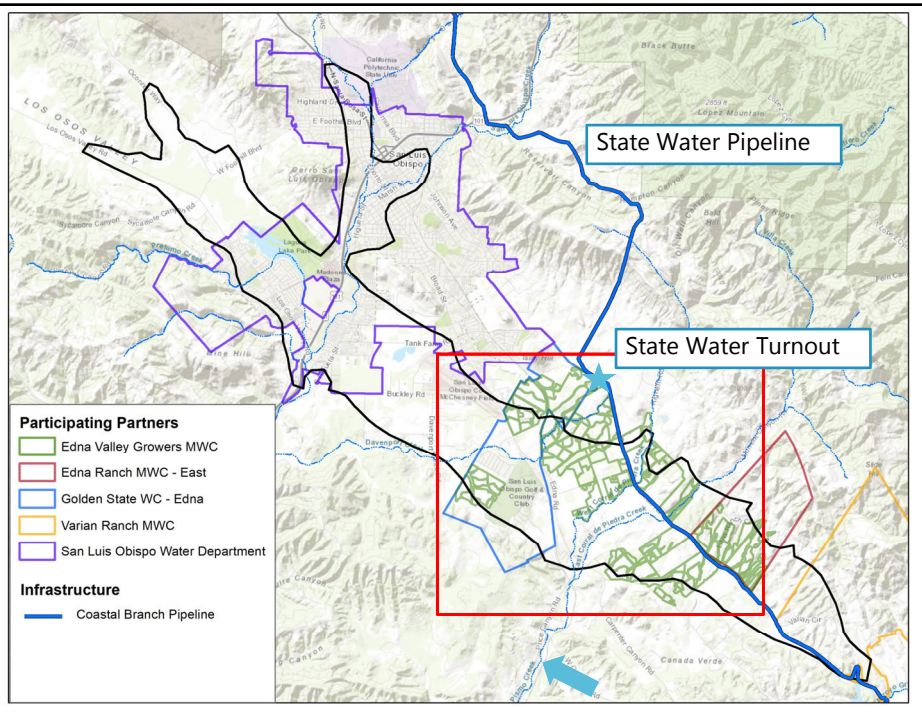


Supplemental Water – Ag Irrigation

Timing: Beginning in 2026

Assumes sufficient capacity in the Coastal Branch is available to meet seasonal demands.

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REPRESENTATIVE WELLS - EDNA VALLEY

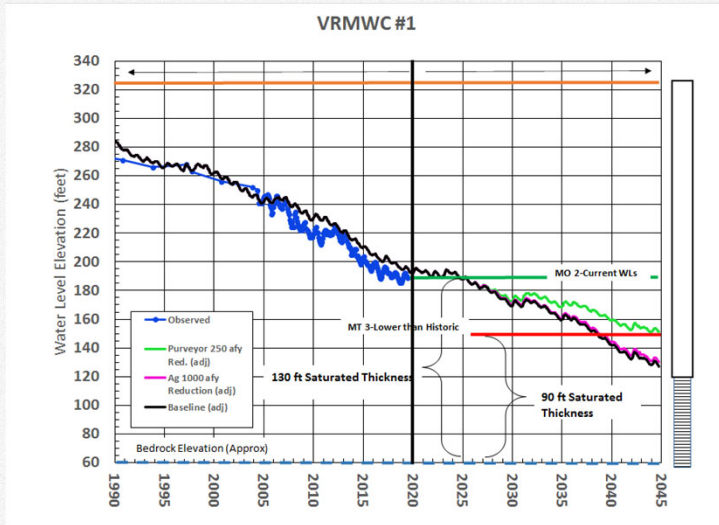
VRMWC Well #1 (EV-16)



CHRONIC LOWERING OF GROUNDWATER LEVELS



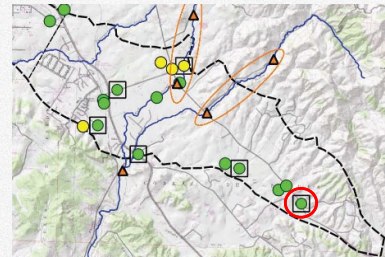
REDUCTION OF GROUNDWATER STORAGE



31 | SLO GSC MEETING • MARCH 31, 2021

Measurable Objective

Minimum Threshold



REPRESENTATIVE WELLS - EDNA VALLEY

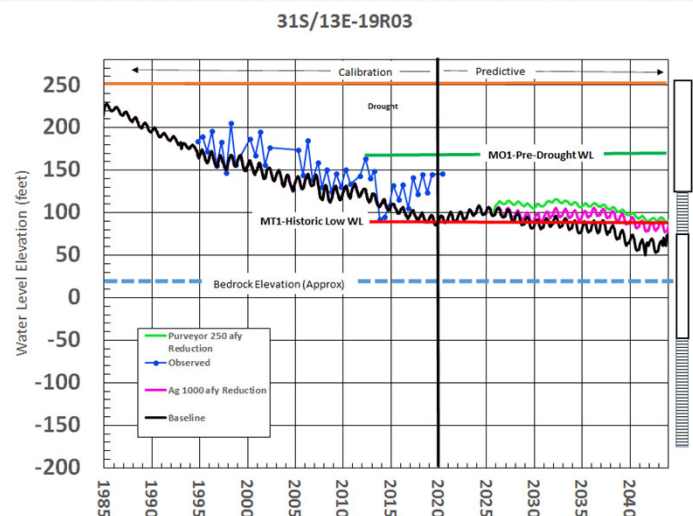
31S/13E-19R03 (EV-09)



CHRONIC LOWERING OF GROUNDWATER LEVELS



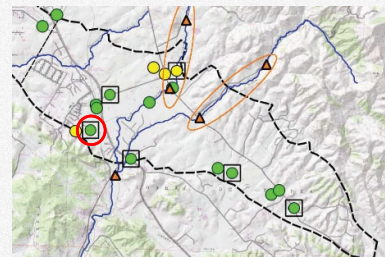
REDUCTION OF GROUNDWATER STORAGE



32 | SLO GSC MEETING • MARCH 31, 2021

Measurable Objective

Minimum Threshold



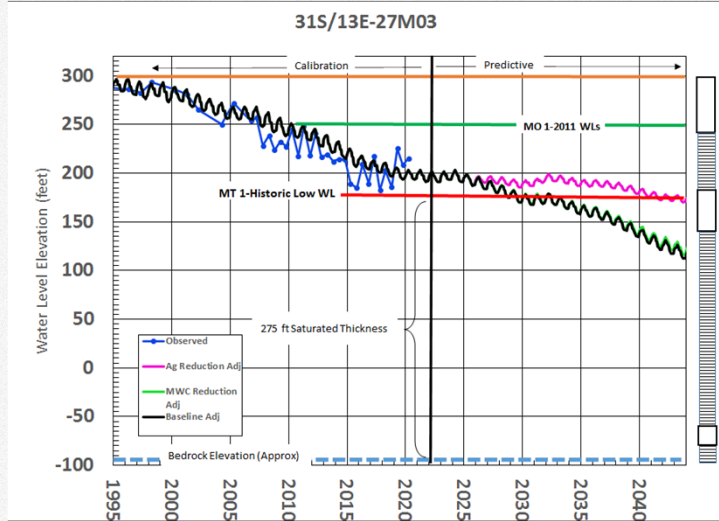
REPRESENTATIVE WELLS - Edna Valley 31S/13E-27M03 (EV-12)



CHRONIC
LOWERING OF
GROUNDWATER
LEVELS

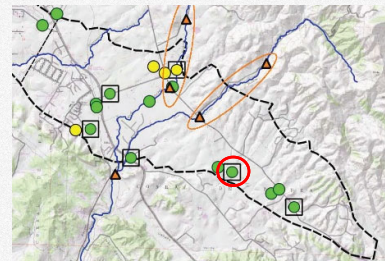


REDUCTION OF
GROUNDWATER
STORAGE

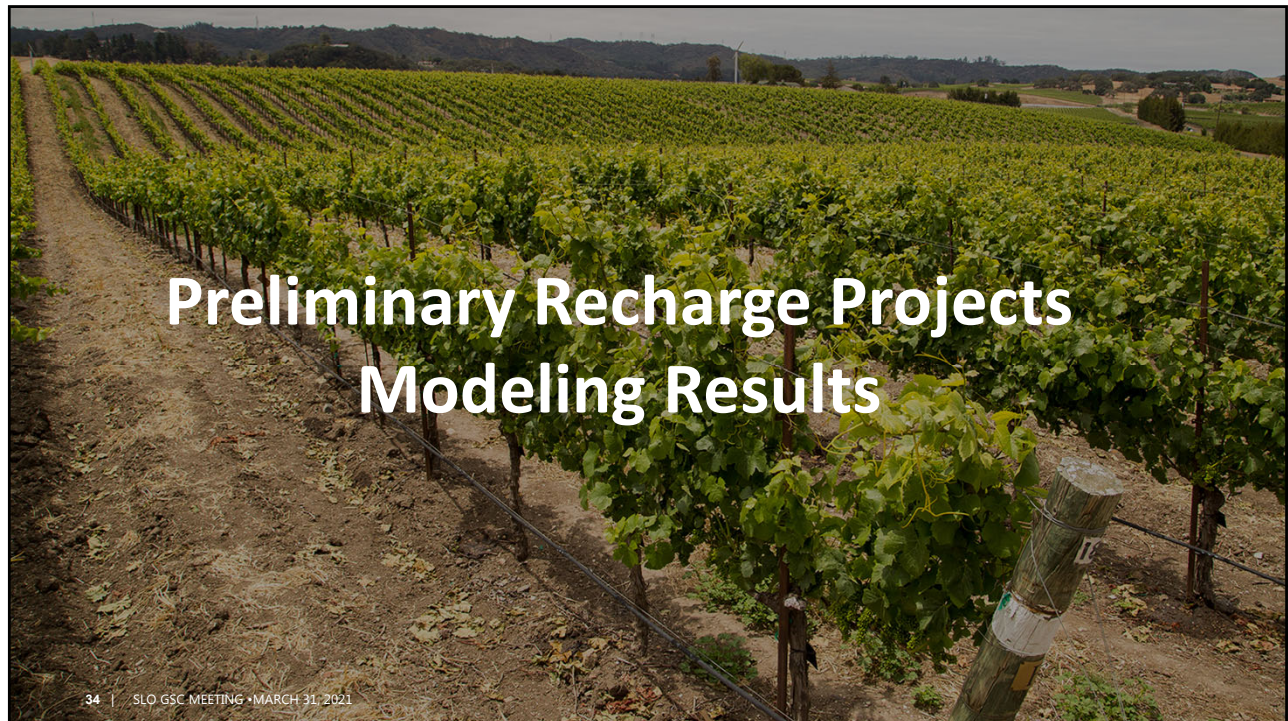


Measurable Objective

Minimum Threshold



33 | SLO GSC MEETING • MARCH 31, 2021



Preliminary Recharge Projects Modeling Results

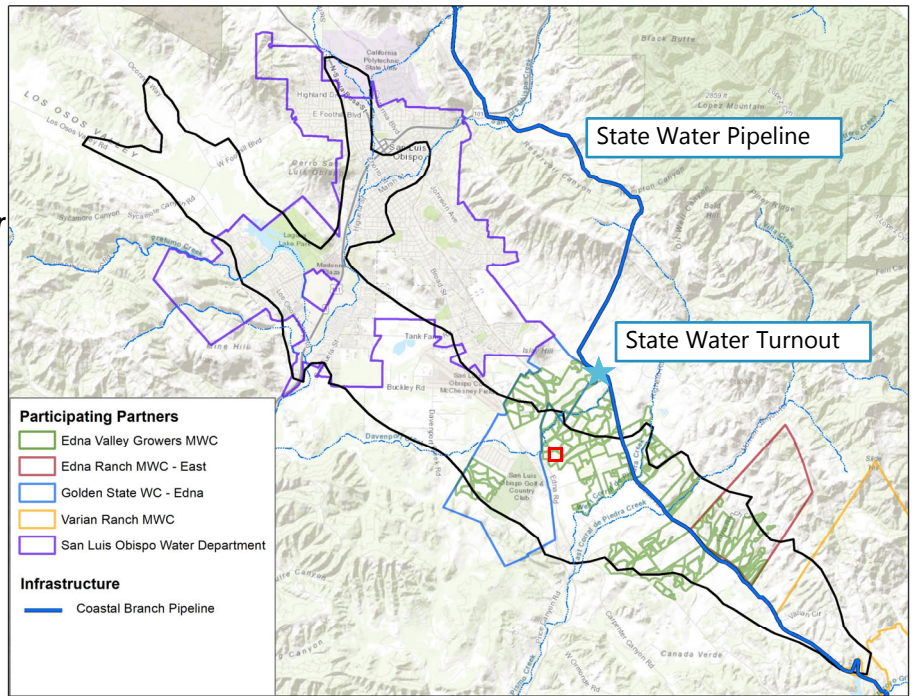
34 | SLO GSC MEETING • MARCH 31, 2021

Groundwater Recharge Basin

Quantity: 500 AFY (SWP or Price Canyon Water)

Location of Delivery: Area of declining groundwater in Edna Valley

Timing: Year-round deliveries



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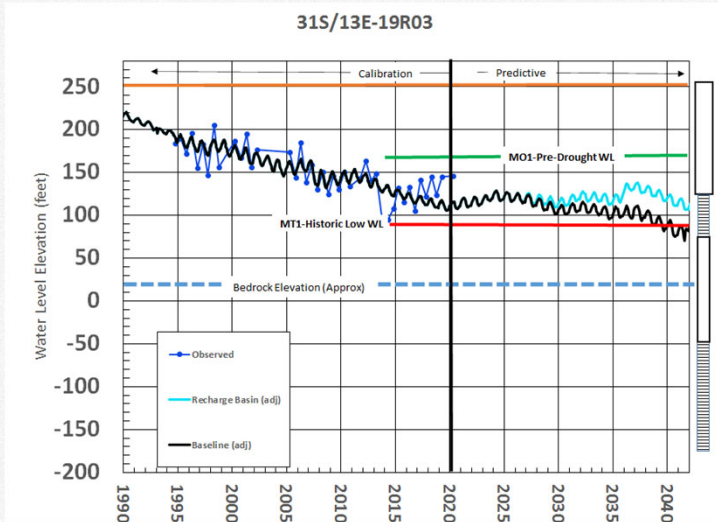
REPRESENTATIVE WELLS - EDNA VALLEY 31S/13E-19R03 (EV-09)



CHRONIC LOWERING OF GROUNDWATER LEVELS

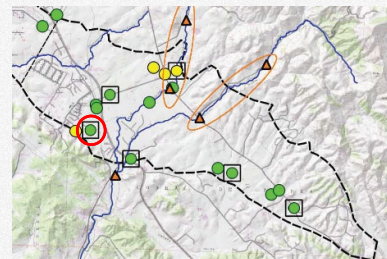


REDUCTION OF GROUNDWATER STORAGE



Measurable Objective

Minimum Threshold



36 | SLO GSC MEETING • MARCH 31, 2021

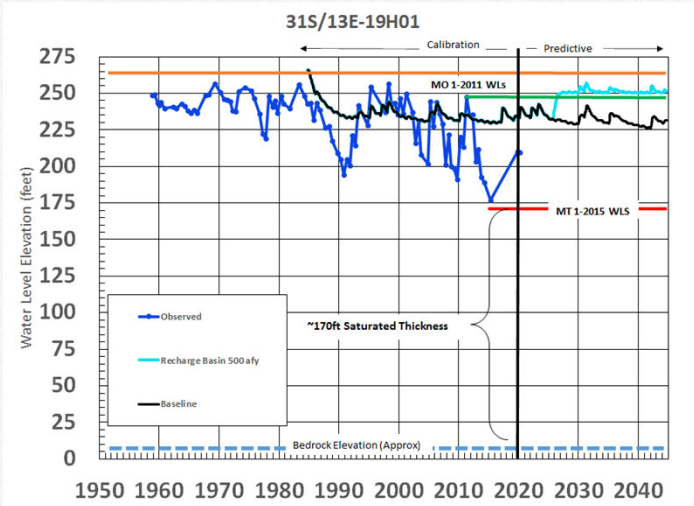
REPRESENTATIVE WELLS - EDNA VALLEY 31S/13E-19H01 (EV-04)



CHRONIC
LOWERING OF
GROUNDWATER
LEVELS

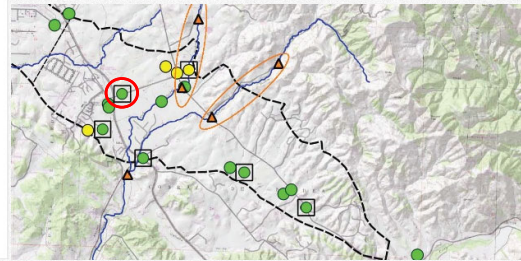


REDUCTION OF
GROUNDWATER
STORAGE



Measurable Objective

Minimum Threshold



37 | SLO GSC MEETING • MARCH 31, 2021

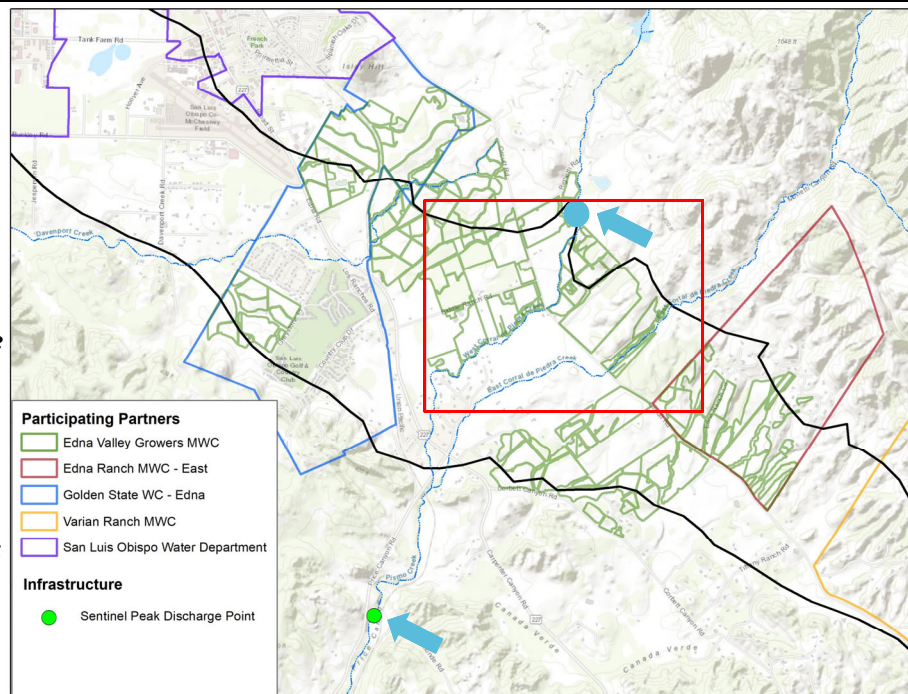
Price Canyon Water Pipeline Project

Quantity: 500 –acre-ft/yr

**Location of Delivery:
Direct delivery Agriculture
or discharge to Corral De
Piedras**

**Increased groundwater
recharge**

**Timing: Beginning in 2026
Year round**



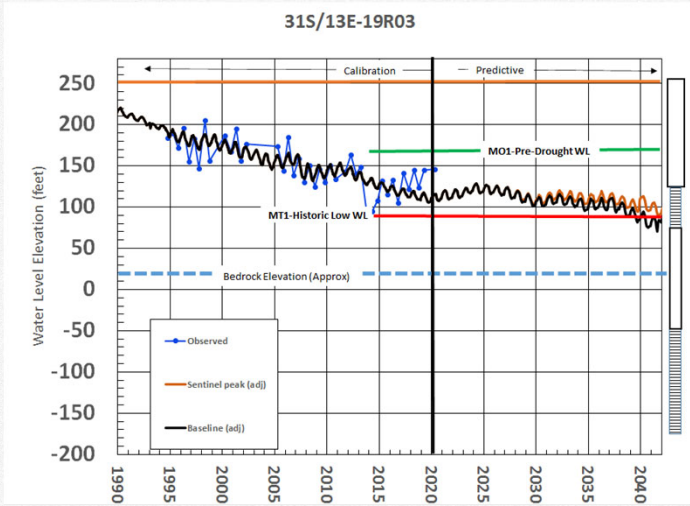
38 | SLO GSC MEETING • MARCH 31, 2021

REPRESENTATIVE WELLS - EDNA VALLEY

31S/13E-19R03 (EV-09)

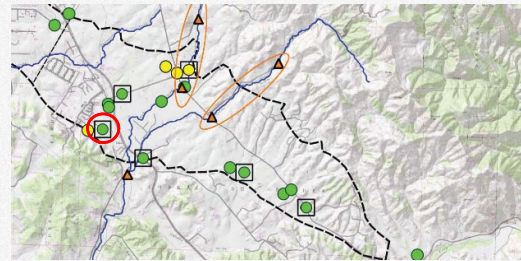


INTERCONNECTED
SURFACE WATER
DEPLETIONS



Measurable Objective

Minimum Threshold



39 | SLO GSC MEETING • MARCH 31, 2021

REPRESENTATIVE WELLS – EDNA VALLEY

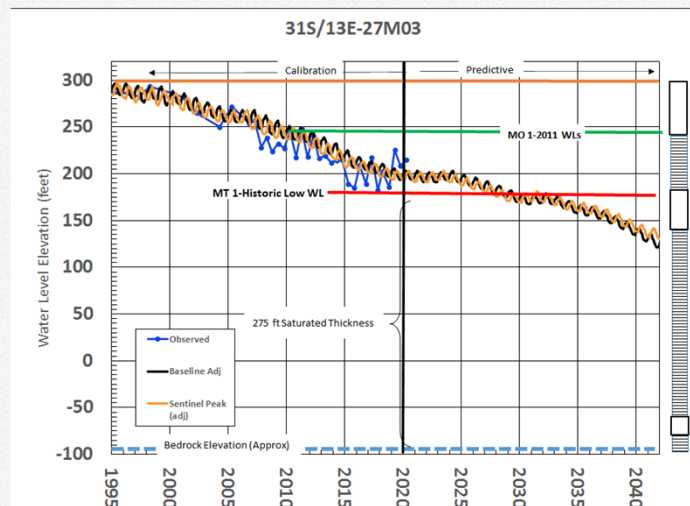
31S/13E-27M03 (EV-12)



CHRONIC
LOWERING OF
GROUNDWATER
LEVELS

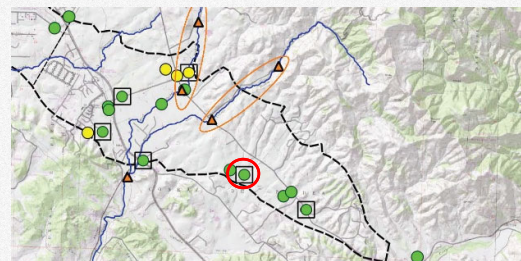


REDUCTION OF
GROUNDWATER
STORAGE



Measurable Objective

Minimum Threshold



40 | SLO GSC MEETING • DECEMBER 9, 2020

Potential Management Actions (Edna Valley)

- Pumping Reductions (Total 3,500 AFY – Ag Pumping, 850 AFY – Non-Ag)
 - Improved irrigation efficiency
 - Water efficient crop conversion
 - Volunteer fallowing crops
- Metering production wells

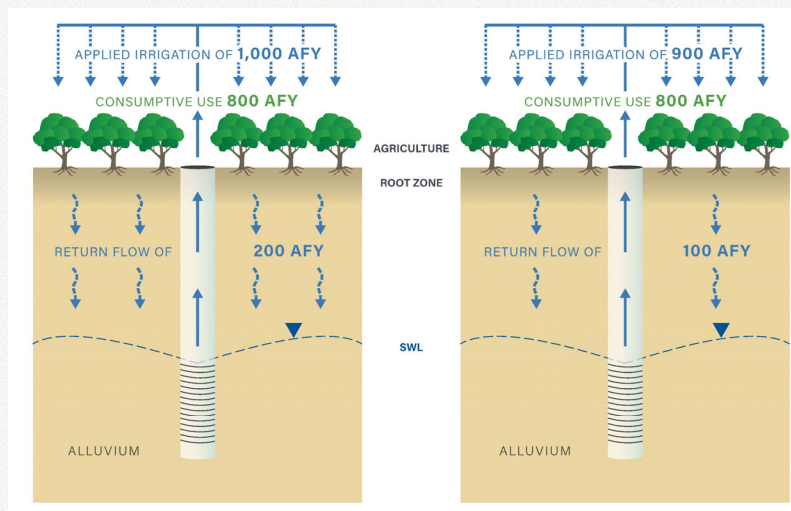
41 | SLO GSC MEETING • MARCH 31, 2021

Irrigation Efficiencies Management Action

**Improved Irrigation
Efficiency for Drip
Irrigation**

**Currently 80%
Improve to 90%**

**Spray Irrigation
Opportunities from**



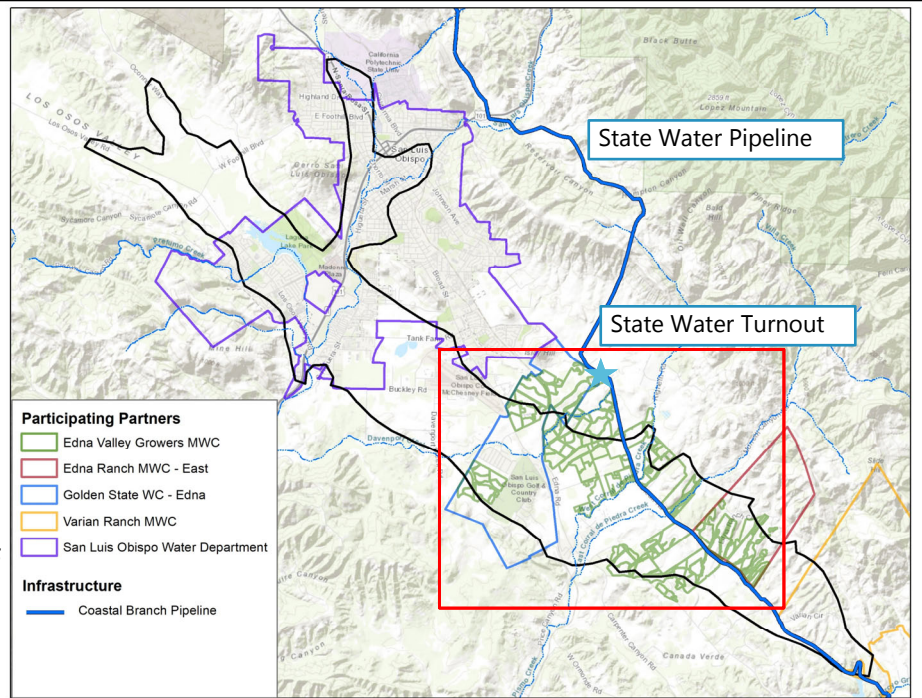
42 | SLO GSC MEETING • MARCH 31, 2021

Management Action – Volunteer Following

Quantity: Reduce agricultural groundwater demand across the Edna Valley (portion of 1,000 AFY)

Location of Delivery: Area of declining groundwater in Edna Valley

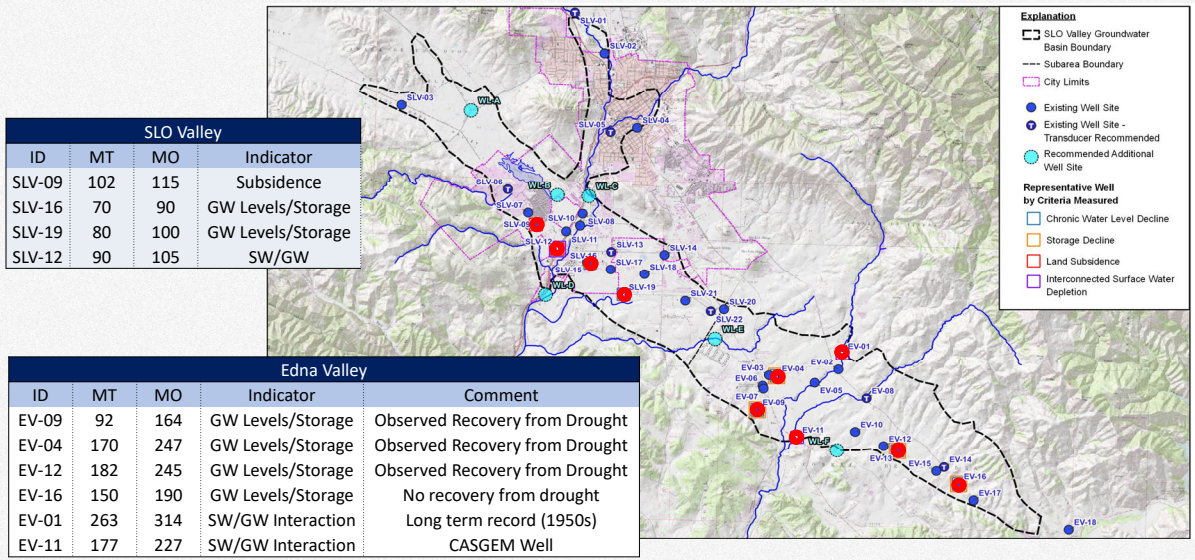
Timing: Beginning in 2026



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43

Sustainable Management Criteria Water Levels and Storage Depletion

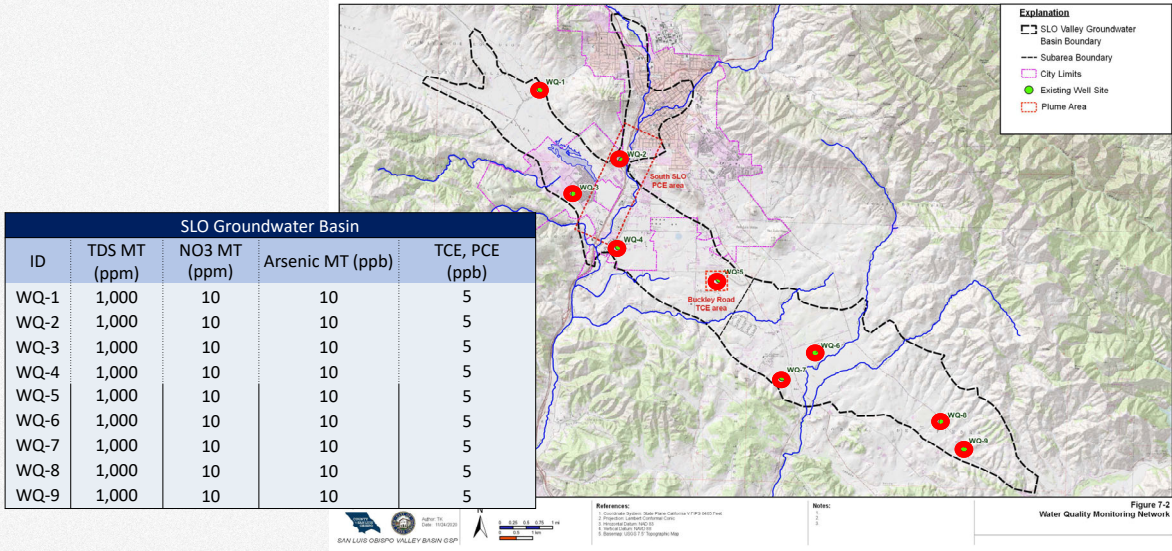


SLO Valley			
ID	MT	MO	Indicator
SLV-09	102	115	Subsidence
SLV-16	70	90	GW Levels/Storage
SLV-19	80	100	GW Levels/Storage
SLV-12	90	105	SW/GW

Edna Valley				
ID	MT	MO	Indicator	Comment
EV-09	92	164	GW Levels/Storage	Observed Recovery from Drought
EV-04	170	247	GW Levels/Storage	Observed Recovery from Drought
EV-12	182	245	GW Levels/Storage	Observed Recovery from Drought
EV-16	150	190	GW Levels/Storage	No recovery from drought
EV-01	263	314	SW/GW Interaction	Long term record (1950s)
EV-11	177	227	SW/GW Interaction	CASGEM Well

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Sustainable Management Criteria – Water Quality



NEXT STEPS

March 31st GSC Meeting

- Present Model Results from highly ranked projects and management actions
- Goal is to receive input on the recommended SMC to be included in Draft Chapter 8

April 7th GSC Meeting (if desired)

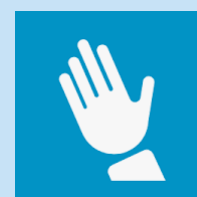
- Additional Discussion on recommended SMC's

May 5th GSC Meeting

- Submit Draft Chapter 8 Sustainable Management Criteria
- Project and Management Actions Cost Estimates
- Introduce Implementation Plan



Public Comments



By phone:

Dial *9 (then *6 to unmute when prompted)

From your computer:

Raise your hand by clicking the raise hand icon