

### Board of Directors Meeting Thursday November 19, 2020 5:00p.m.

In accordance with the California Governor's Executive Stay at Home Order and the County of Ventura Health Officer Declared Local Health Emergency and Be Well at Home Order resulting from the novel coronavirus (COVID-19), the Fillmore City Hall is closed to the public. Therefore, the FPB GSA will be holding its Regular Board of Directors meeting virtually using the ZOOM video conferencing application.

If you are new to ZOOM video conferencing, please visit this help page in advance of the meeting date and time: https://support.zoom.us/hc/en-us/articles/201362193-How-Do-I-Join-A-Meeting-

To participate in the Board of Directors meeting via Zoom, please access:

https://us02web.zoom.us/j/87851955491?pwd=M0NOdGRHNDE1YTBpZG9LSjlGcEVDZz09

Meeting ID: **878 5195 5491** Password: **FPBGSA** 

To hear just the audio portion of the meeting, phone into the toll-free number 877 853 5247 Meeting ID: **878 5195 5491** 

All participants are asked to join the meeting at least five minutes in advance of the 5pm start time and be aware that all participants will be "muted" until recognized by the host. If your computer has a camera, please enable it so we can ensure better engagement between participants.

If you would like to address the Board with a question or offer a comment, please follow these simple instructions to engage the host (Clerk of the Board):

- 1. During a meeting, click on the icon labeled "Participants" at the bottom center of your computer screen.
- 2. At the bottom of the window on the right side of the screen, click the button labeled "Raise Hand."
- 3. Once you've been recognized by the Chair, please click on "Raise Hand" again to remove the signal.



Similarly, if you have a comment or question for the Board, you can use the "Chat" button to convey your question or comment to the HOST, who will put you in line to address the Board.

The Fillmore and Piru Basins GSA Board of Directors appreciates your participation and patience in using Zoom to conduct its public meeting.

### **AGENDA**

- 1. Call to Order First Open Session
  - 1A Pledge of Allegiance
  - 1B Directors Roll Call

### 1C Public Comments

Fillmore and Piru Basins Groundwater Sustainability Agency (Agency) will accept public comment concerning agenda items at the time the item is considered and on any non-agenda item within the jurisdiction of the Board during the agendized Public Comment period. No action will be taken by the Board on any non-agenda item. In accordance with Government Code § 54954.3(b)(1), public comment will be limited to three (3) minutes per speaker per issue.

# 1D Approval of Agenda Motion

### 2. Updates

### 2A Director Announcements/Board Communications:

Oral Reports from the Board

Fillmore Pumpers Association Stakeholder Director Update

Piru Pumpers Association Stakeholder Director Update

Environmental Stakeholder Director Update

City of Fillmore Member Director Update

United Water Conservation District Member Director Update

County of Ventura Member Director Update

### 2B Executive Director Update

### **Information Item**

The Executive Director will provide an informational update on Agency activities since the previous Board meeting of October 15, 2020.

### 2C Legal Counsel Update

### **Information Item**

Legal Counsel will provide an informational update on Agency's legal issues and concerns since the previous Board meeting of October 15, 2020.

### 2D GSP Consultant Update

### **Information Item**

Representatives from Daniel B Stephens & Associates and UWCD will provide an informational update on Agency's GSP development activities since the previous Board meeting of October 15, 2020.

### 3. CONSENT CALENDAR

All matters listed under the Consent Calendar are considered routine by the Board and will be enacted by one motion. There will be no separate discussion of these items unless a Board member pulls an item from the Calendar. Pulled items will be discussed and acted on separately by the Board. Members of the public who want to comment on a Consent Calendar item should do so under Public Comments. (ROLL CALL VOTE REQUIRED)

### 3A Approval of Minutes

The Board will consider approving the Minutes from the Board Meeting of October 15, 2020.

### 3B Approval of Warrants

The Board will consider approving the following invoices for payment:

Daniel B. Stephens & Associates, Inc.

\$29,950.18

### 3C Monthly Financial Report

The Board will receive the Agency's monthly profit and loss statement and balance sheet.

### 3D Fiscal Year 2019-2020 Financial Report

The Board will receive the Agency's Fiscal Year 2019-2020 financial reports.

### 4. MOTION ITEMS

### 4A Sustainable Management Criteria

### Motion

The Board will receive a report from a representative of the Daniel B. Stephens & Associates team on the development of the Agency's Draft Sustainable Groundwater Management Criteria and provide comments and recommendations.

### 4B Monitoring Wells Project

### Motion

The Board will receive a report from staff and a representative of the Daniel B. Stephens & Associates team on the Monitoring Wells Project and provide comments and recommendations.

### **FUTURE TOPICS FOR BOARD DISCUSSION**

### **ADJOURNMENT**

The Board will adjourn to the next **Regular Board Meeting** on Thursday, **December 17, 2020** or call of the Chair

Materials, which are non-exempt public records and are provided to the Board of Directors to be used in consideration of the above agenda items, including any documents provided subsequent to the publishing of this agenda, are available for inspection at UWCD's offices at 1701 N. Lombard Street in Oxnard during normal business hours.

The Americans with Disabilities Act provides that no qualified individual with a disability shall be excluded from participation in, or denied the benefits of, the District's services, programs or activities because of any disability. If you need special assistance to participate in this meeting, or if you require agenda materials in an alternative format, please contact the UWCD Office at (805) 525-4431 or the City of Fillmore at (805) 524-1500. Notification of at least 48 hours prior to the meeting will enable the District to make appropriate arrangements.

**Approved** 

Board Chair Kelly Long

Posted: (date) November 16, 2020 (time) 12:00 pm (attest) Eva Ibarra

At: https://www.FPBGSA.org

Posted: (date) November 16, 2020 (time) 12:30 pm (attest) Eva Ibarra

At: https://www.facebook.com/FPBGSA/

Posted: (date) November 16, 2020 (time) 2:00 pm (attest) Erika Herrera

At: Fillmore City Hall, 250 Central Avenue, Fillmore CA 93015

Posted: (date) November 16, 2020 (time) 2:00 pm (attest) Eva Ibarra

At: UWCD, 1701 N. Lombard Street, Oxnard CA 93030



### Board of Directors Meeting October 15, 2020 Via Zoom

### **MINUTES**

### **Directors Present**

Director Kelly Long, Chair Director Ed McFadden, Vice Chair Director Tim Holmgren Director Gordon Kimball Director Candice Meneghin Director Glen Pace

### Staff Present

Anthony Emmert, executive director Scott Nave, legal counsel Eva Ibarra, clerk of the board

### **Public Present**

Lisa Ballin, CSUS/DBS&A
Bryan Bondy, Fillmore and Piru Pumpers Associations
Frank Brommenschenkel
Dan Detmer, UWCD
Debbie Jackson
Steven Zimmer
Burt Handy
Dr. Zachary Hanson, UWCD
Tony Morgan, DBS&A
Patrick O'Connell, DBS&A
Ambry Tibay, UWCD
Dr. Jason Sun, UWCD

### 1. Call to Order – First Open Session 5:00p.m.

Vice Chair McFadden called the meeting to order at 5p.m.

### 1A. Pledge of Allegiance

Vice Chair McFadden asked everyone to join him in reciting the Pledge of Allegiance

### 1B. Directors Roll Call

Chair Long asked the Clerk to call roll. 6 directors were present (Holmgren, Kimball, Chair Long, Vice Chair McFadden, Meneghin, Pace.)

### 1C. Public Comments

Chair Long asked if there were any public comments, none were offered.

### 1D. Approval of Agenda

Executive Director Tony Emmert stated staff would like to pull agenda item 3D and bring it back for next Board meeting in November.

### Motion

Motion to approve the agenda with the removal of item 3D, Vice Chair McFadden; Second, Director Meneghin. Voice vote: 6 ayes (Holmgren, Kimball, Chair Long, Vice Chair McFadden, Meneghin, Pace); none opposed; Motion carries 6/0. Chair Long was reminded by Scott Nave, we must do roll call votes for virtual meetings.

### 2. Director Announcements/Board Communications

# 2A Fillmore Pumpers Association Stakeholder Director Update <u>Information Item</u>

Director Kimball stated the Fillmore Pumpers Association meet Tuesday, October 13<sup>th</sup> and had a great discussion about water use. Stakeholders have requested Stakeholder meetings be via Zoom and not webinar for better ease of communication. A letter has been created to be sent to the GSA by both Fillmore and Piru associations regarding SMC and will be presented at the next Board meeting.

# Piru Pumpers Association Stakeholder Director Update Information Item

Director Pace stated pretty much the same as Fillmore Pumpers. Pumpers working on getting their estimates for their future water uses for both basins.

# City of Fillmore Member Director Update Information Item

Director Holmgren had no updates and stated he felt the October 1<sup>st</sup>, Workshop was very informational and a success.

# Environmental Stakeholder Director Update Information Item

Director Meneghin reported they will be having their Fillmore Water Talk next Wednesday from 6-8 via Zoom and she be circulating flyer to all.

# United Water Conservation District Member Director Update Information Item

Vice Chair McFadden reported United continues with Water Release from the Santa Felicia Dam and farmers are happy to see such great water levels.

# County of Ventura Member Director Update Information Item

Chair Long stated we are in the COVID-19 red tier and hoping in 4 weeks we can make our way to orange in hopes that students can go back to school, if their district approves it.

### 2B Executive Director Update

### Information Item

Executive Director Anthony Emmert reported United staff recently completed the Agency's groundwater billings for the period ending June thirtieth and is working with legal counsel to explore ways to collect outstanding delinquent charges from prior periods. Mr. Emmert discussed the grant status for United and mentioned validation for Groundwater model is ongoing and all documentation is due to be completed at the end of December. Mr. Emmert stated he continues to coordinate with Santa Clarita Valley Water Agency to share information helpful to both parties.

### 2C. Legal Counsel Update

### **Information Item**

Legal Counsel Scott Nave (covering for Steve O'Neill) had no updates.

### 2D. GSP Consultant Update

### **Information Item**

Tony Morgan, representing DBS&A presented (see slide) regarding the GSP development timeline.

### 3. CONSENT CALENDAR

### 3A Approval of Minutes

The Board will consider approving the Minutes from the Board Meeting of September 17, 2020.

### 3B Approval of Warrants

The Board will consider approving the following invoices for payment: Daniel B. Stephens & Associates, Inc. \$49,359.92

### 3C Monthly Financial Report

The Board will receive a monthly profit and loss statement and balance sheet for the FPBGSA from UWCD's accounting staff.

### 3D Fiscal Year 2019-2020 Budget Report

The Board will receive the Agency's Fiscal Year 2019-2020 financial reports.

Motion to approve the Consent Calendar with the removal of item 3D, Vice Chair McFadden; Second, Director Pace. Voice vote 6 ayes, (Holmgren, Kimball, Chair Long, Vice Chair McFadden, Meneghin, Pace). None opposed. Motion carries unanimously 6/0.

### 4. MOTION ITEMS

### 4A Sustainable Management Criteria

### Motion

The Board will receive a report from representatives from Daniel B. Stephens & Associates and ad hoc committee members regarding the development of the Agency's Draft Sustainable Groundwater Management Criteria and provide direction regarding upcoming actions, including setting a date for a special board meeting to focus exclusively on completing the Draft Sustainable Management Criteria.

The Board received a report from Tony Morgan of Daniel B. Stephens & Associates

Mrs. Lisa Ballin shared poll results from the October first, Stakeholder Workshop.

Various Board members expressed their concern over the small number of attendees for the October first Workshop, asking Mrs. Ballin what her thoughts were regarding the low turnout. Mrs. Ballin made suggestions on ways to possibly bring in more interest for future Workshops.

Mr. Tony Morgan committed to providing a Strawman Sustainable Management Criteria Matrix for consideration by the Board and stakeholders for the upcoming Special Board Meeting.

Board and staff discussed content, dates and times for a Special Board and settled on November fourth for Special Board Meeting.

Motion to approve Special Board Meeting for November fourth, Director Meneghin; Second, Vice Chair McFadden. Voice vote 6 ayes, (Holmgren, Kimball, Chair Long, Vice Chair McFadden, Meneghin, Pace). None opposed. Motion carries 6/0.

# 4B Groundwater Sustainability Plan Stakeholder Workshop3 Groundwater Model and Water Budget

### Motion

The Board will consider setting a date for Stakeholder Workshop 3, provide comments on the draft agenda and authorize staff to mail invitations to pumpers.

Brian Bondy expressed his opinion on the upcoming Stakeholder Workshop.

Board and staff discussed dates and times and agreed on December ninth for the next Stakeholder Workshop.

Motion to approve Stakeholder Workshop for December ninth and approve cost for mailings to pumpers, Director Meneghin; Second, Vice Chair McFadden. Voice vote 6 ayes, (Holmgren, Kimball, Chair Long, Vice Chair McFadden, Meneghin, Pace). None opposed. Motion carries 6/0.

# 4C Amendment to Agreement with Daniel B. Stephens & Associates Inc. for Assistance with Monitoring Wells Project. Motion

The Board will consider approving an Amendment to the Agreement with Daniel B. Stephens & Associates Inc. for assistance with the siting, design, construction and reporting for the Monitoring Wells Project.

Executive Director Tony Emmert explained the need for the agreement amendment.

Motion to approve Amendment to agreement for DBS&A and approve the budget, Vice Chair McFadden; Second, Director Pace. Voice vote 5 ayes, (Holmgren, Kimball, Chair Long, Vice Chair McFadden, Meneghin, Pace). None opposed. One abstaining (Kimball). Motion carries 5/0/1.

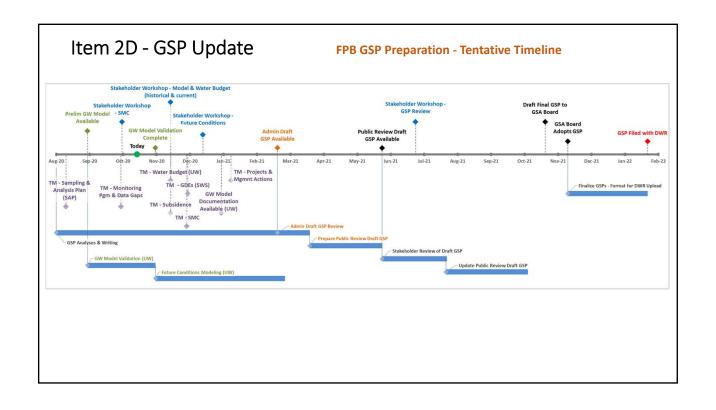
### **FUTURE TOPICS FOR BOARD DISCUSSION**

Billing information, pumpers letter and United to share their water projects for next year.

### ADJOURNMENT 7:01 p.m.

The Board will adjourn to the next <b>Regular Board Meeting</b> on Thursday, <b>November 19, 2020</b> or call of the Chair.
ATTEST: Kelly Long, Chair, FPB GSA Board of Directors
I certify that the above is a true and correct copy of the minutes of the Fillmore and Piru Basins Groundwater Sustainability Agency's Board of Directors meeting of October 15, 2020.
ATTEST: Eva Ibarra, Clerk of the Board

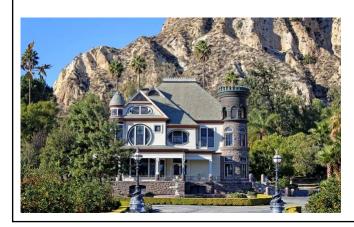
# Sustainable Management Criteria - Agenda Item 4A Groundwater Sustainability Plan Stakeholder Workshop #3 (Groundwater Model and Water Budget) - Agenda Item 4B Amendment to Agreement with Daniel B. Stephens & Associates, Inc. for Assistance with Monitoring Wells Project - Agenda Item 4C



FPBGSA Board Meeting 10/15/2020



# **Questions?**

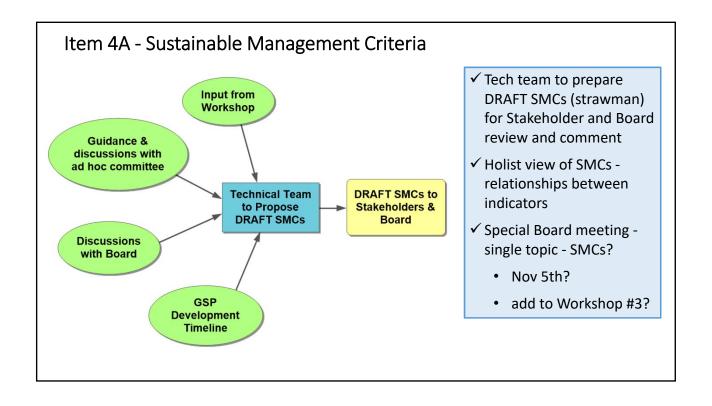


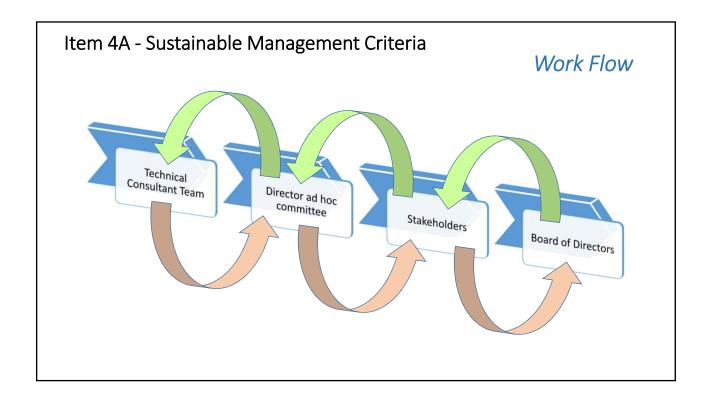




FPBGSA Board Meeting 10/15/2020

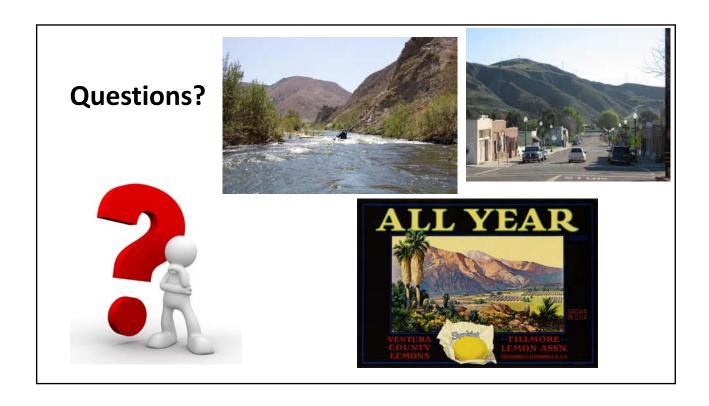






Item 4A - S	ustainable Managemen	t Criteria		
SM Indicator	Example Possible Undesirable Results	Metric / Measurement Methodology	MT	МО
GW Elevation	GW levels declining below the top of the well screen	?	?	?
GW Storage Reduction	inadequate GW storage to last through multi-year drought without GW extraction limitations	?	?	?
SW Depletion	GW elevations drops below the rooting depth of GDE vegetation communities	?	?	?
Land Subsidence	land subsidence amounts that interfere with infrastructure operations	?	?	?
Degraded WQ	water quality degradation that impairs the beneficial use of the resource	?	?	?
Seawater Intrusion	Not Applicable	Not Applicable	Not Applicable	Not Applicable

FPBGSA Board Meeting 10/15/2020





# SPECIAL Board of Directors Meeting Wednesday, November 4, 2020 at 5:00 p.m.

### **Directors Present**

Director Kelly Long, Chair Director Ed McFadden, Vice Chair Director Tim Holmgren Director Gordon Kimball Director Glen Pace

### **Directors Absent**

Director Candice Meneghin

### **Staff Present**

Anthony Emmert, executive director Eva Ibarra, clerk of the board

### **Public Present**

Lisa Ballin, CSUS/DBS&A

Bryan Bondy, Fillmore and Piru Pumpers Associations

Christian Braudrick, Stillwater Science

Katie Brokaw

Frank Brommenschenkel, Frank B. & Associates

Emilio Cervantes, Fivepoint Newhall

Guy Cole, Cole Ranch

Dan Detmer, UWCD

Matt Freeman

Barb Fillicks

Carole Fornoff, Westchester/Global AG

**Burt Handy** 

Dr. Zachary Hanson, UWCD

Kris Helm, Independent Water Resource Consultant

Debbie Jackson, Brokaw Ranch Company

Scott Klittich

Rachel Laenen, Fillmore & Piru Basin Pumpers

Bill Lindsay, Beans Ranch LLC & Snabe LLC

Russell Marlow, CalTrout

Victor Mellon, Beans Ranch LLC

Manuel Minjares

Tony Morgan, DBS&A

Patrick O'Connell, DBS&A

Brisa Romero, One Step A La Vez

Clete Saunier, City of Santa Paula Public Works

Kat Selm, The Nature Conservancy

Mary Shore

Steve Slack, CDFW

Jeffrey Steinberg

Dr. Jason Sun, UWCD

Ambry Tibay, UWCD

Christopher Veitch

Gilead Wurman

Steven Zimmer

Fillmore and Piru Basins Groundwater Sustainability Agency

Board of Directors Meeting -

November 4, 2020

Page 2 Call to Order 5:00 pm

Chair Long called the meeting to order at 5:00p.m.

### 1A Pledge of Allegiance

Chair Long lead everyone to the pledge allegiance.

1**B** 

### **Directors Roll**

Chair Long asked the Clerk to call roll. 5 Directors were present (Holmgren, Kimball, Long, McFadden, Pace.) Director Meneghin was absent.

### 1C. Public Comments

Chair Long asked if there were any public comments

Kat Selm from The Nature Conservancy (TNC) of Ventura County voiced her concern over the future dewatering of groundwater dependent ecosystems, such as what occurred during the most recent drought and shared a link in the meeting chat regarding guidance framework from TNC.

### 1. MOTION ITEMS

### 2.A Sustainable Management Criteria

### Motion

The Board received a presentation from representatives of Daniel B. Stephens & Associates on the Agency's "Straw Man" Draft Sustainable Groundwater Management Criteria (SMC) and provided comments and recommendations regarding developing the Agency's Draft SMC for further analysis during the groundwater sustainability planning process. Mr. Tony Morgan presented (see slides).

Mr. Patrick O'Connell also presented slides regarding the use of historical data to evaluate the groundwater level minimum thresholds and measurable objectives.

Chair Kelly Long asked about the groundwater levels and well screen. Mr. Morgan explained the reasoning for the draft minimum thresholds and measurable objectives.

Vice Chair McFadden asked about how the draft minimum thresholds and measurable objectives would work with wells with multiple screened sections and aquifer zones A B & C. Mr. Morgan explained that the draft minimum thresholds and measurable objectives would still work with multiple-screened wells and for the three aquifer zones. He stated that Mr. O'Connell had evaluated over three hundred wells to see what effects would occur.

Mr. Tony Morgan read all questions in the public chat and provided feedback and clarifications as requested.

Vice Chair McFadden requested clarification on the clay layers of concern regarding the potential for subsidence. Mr. Tony Morgan explained that some areas in the Fillmore Basin do have clay layers that might compress during future drawdowns of water levels, so subsidence is a concern that must be addressed in the groundwater sustainability plans. He stated that he is confident that subsidence can be adequately addressed, with the help of the Board.

Mr. Tony Morgan reviewed all listed questions on the public chat and provided answers and made clarifications on all the questions.

Fillmore and Piru Basins Groundwater Sustainability Agency Board of Directors Meeting -November 4, 2020

Page 3

Chair Kelly Long stated the SMC Matrix shown on the screen by Mr. Tony Morgan is only a draft and is the first time seen by the Board, and therefore input from stakeholders and the Board is very important. Chair Long then opened the discussion to the Board.

Vice Chair McFadden made comments and voiced his concerns regarding subsidence, groundwater elevations, and groundwater storage reduction.

Chair Kelly Long stated her concerns on the current information used for the SMC development.

Director Kimball explained the purpose of the Sustainable Groundwater Management Act and the need for GPS stations in key locations to obtain subsidence measurements and not base subsidence SMC on historical water levels information. Director Kimball also suggested the Board needs to be careful to avoid setting minimum thresholds that will be overly restrictive on pumpers during future drought periods.

Director Pace explained that we can now use the model to obtain more data driven decisions going forward and not just base the decision on historical data. He encouraged that team to utilize the model as soon as possible to test the draft SMC. Director Pace also mentioned the idea of pushing back the administrative draft, because of time restraints, and felt that more time working on the SMC would be more useful that preparing early administrative drafts of the plans.

Chair Kelly Long encouraged more discussion from stakeholders.

Chair Kelly Long asked Mr. Tony Morgan if he had any questions for the Directors. Mr. Morgan stated that feedback and comments are what he wanted from this discussion with Board regarding the Strawman Draft SMC. Mr. Morgan reminded the Board that the current analysis is based on historical data sets and that all new projections on future conditions will be added to the model and then future scenarios will be run to test the effects of the draft SMC.

Chair Kelly Long mentioned the draft of the Strawman will be available on the website and stated this is only a draft and not mandated. Chair Long opened it up for public comment and mentioned the public can type their questions in the chat. None were offered.

Vice Chair McFadden stated he would like for the Board to meet as a whole Board on the SMC Matrix for further definition and encouraged Stakeholders to send in their comments and questions.

Brian Bondy stated the Board might consider holding back on the idea of an administrative draft to allow time and space for the best development of the SMC.

Director Kimball requested Mr. Tony Morgan to bring up the slide regarding the schedule. Director Kimball voiced his thoughts on how he feels things should be proceeded and mentioned the idea of removing the administrative draft.

Executive Director Tony Emmert stated legal counsel was not in attendance but stated a technical draft that is made available to Board members is a public document and agreed with others that spending more time on developing good quality SMC is important, and that the Agency can hold back on the administrative draft.

Chair Kelly Long asked Mr. Tony Morgan if they are able work on the draft groundwater sustainability plans. Mr. Morgan stated yes, but the subjects discussed during this meeting

Fillmore and Piru Basins Groundwater Sustainability Agency Board of Directors Meeting -November 4, 2020 are going to be the meat of the document. Chair Long asked that Stakeholders tell their Page 4 friends about the Agency's discussions on SMC, as it is extremely important to obtain their feedback. Vice Chair McFadden stated he supports Director Kimball's suggestion to direct staff and consultant to look at the groundwater sustainability planning timeline and adjust it to give more time to develop the SMCs and refine them. Chair Kelly Long also mentioned the letter dated October 13, 2020 from the Fillmore Basin Pumpers Association and the and Piru Basin Pumpers Association addressing the SMC development process. Motion to approve to receive and file, Vice Chair McFadden; Second, Director Kimball. Roll call vote: Five ayes (Holmgren, Kimball, Long, McFadden, Pace), none opposed. Motion carries unanimously 5/0. Director Meneghin absent. **ADJOURNMENT** Chair Long adjourned the meeting at 7:09 p.m. to the next **Regular Board Meeting** on Thursday, November 19, 2020 or call of the Chair ATTEST: Kelly Long, Chair, FPB GSA Board of Directors

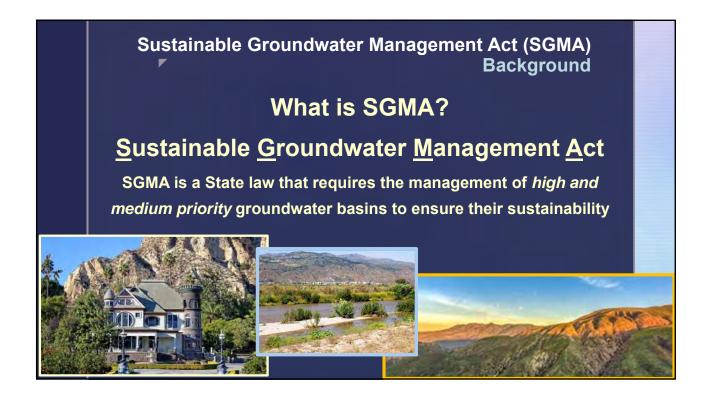
I certify that the above is a true and correct copy of the minutes of the Fillmore and Piru Basins

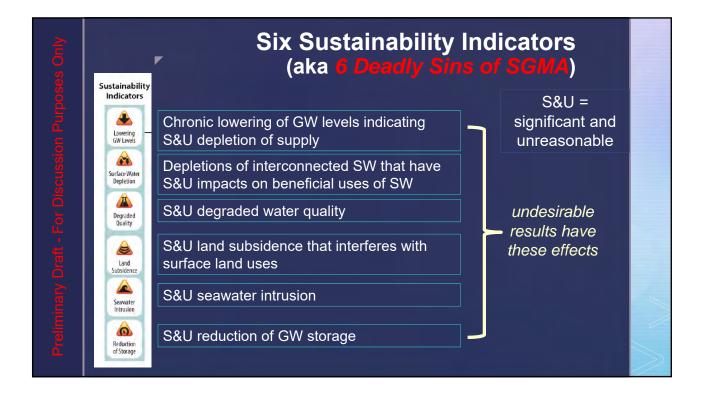
Groundwater Sustainability Agency's Board of Directors meeting of October 15, 2020.

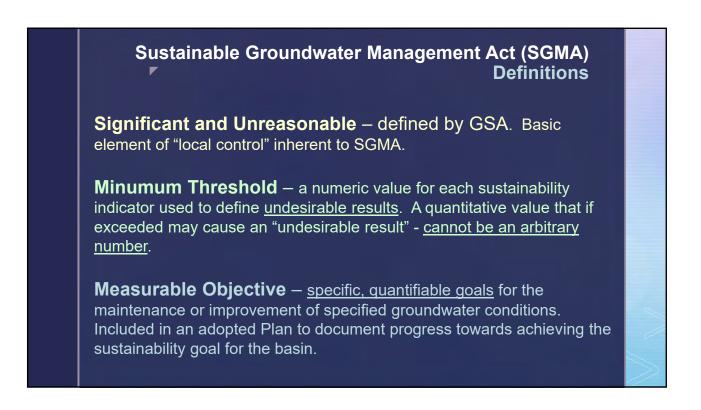
Eva Ibarra, Clerk of the Board

ATTEST: \_\_\_\_





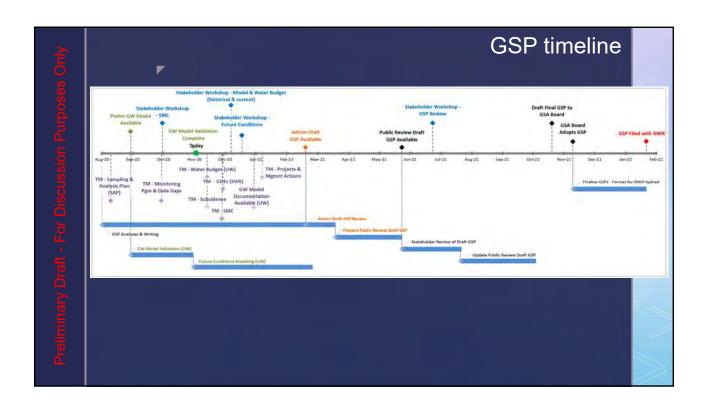


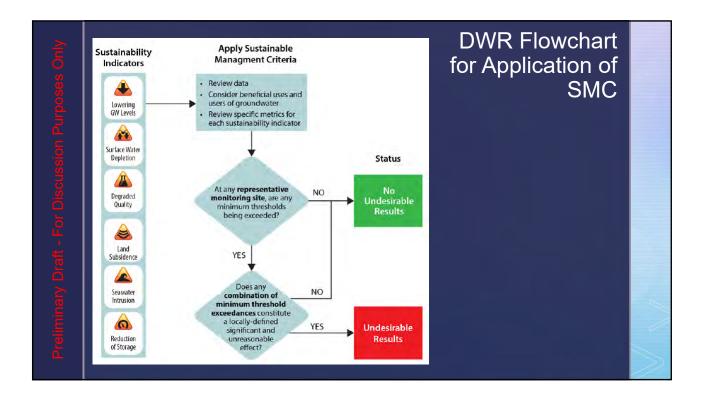


reliminary Draft - For Discussion Purposes Only

### How did we get to this point?

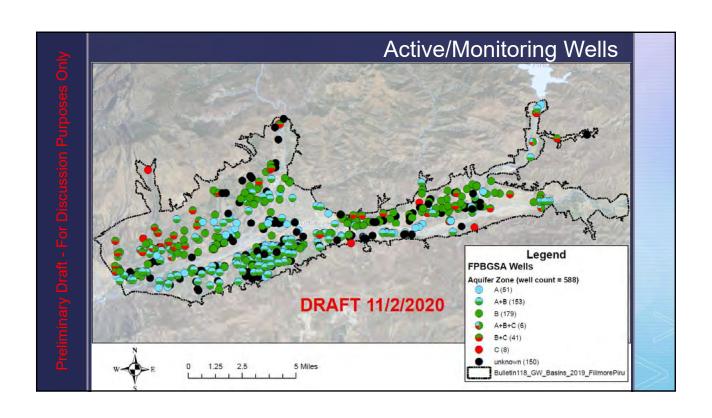
- SMC ad hoc committee sessions
- Presentations to Board of Directors
- Stakeholder Workshops
- Technical consultant to craft draft SMC for stakeholder and Board of Directors consideration
  - Simple "fact sheet" for each SM indicator to provide context and summarize the proposed language

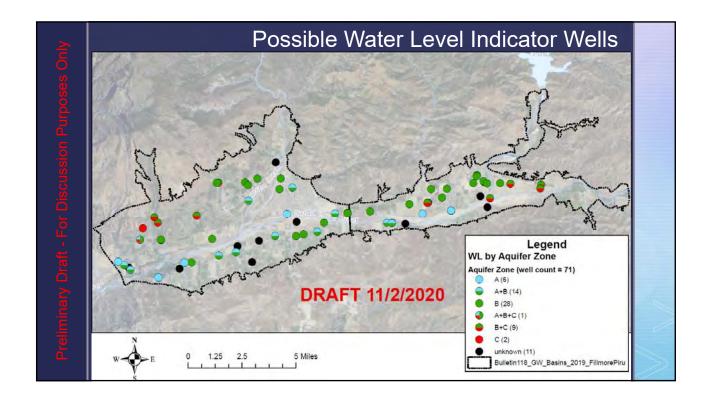


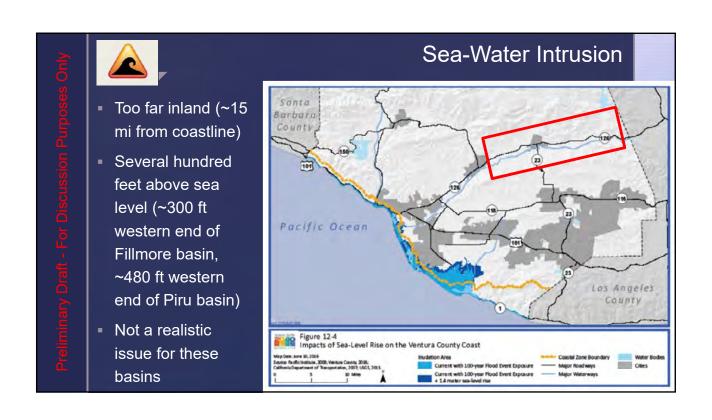




			Draf	t SMC Matrix
	<b>F</b>			
SM Indicator	Example Possible Undesirable Results	Metric / Measurement Method	MT	МО
GW Elevation	Option A - Static GW levels decline below the top of the well screen	GW level measurements / Depth to water / Future simulated GW levels	Static GW levels equal to the top of the well screen	Static water levels at or near 2011 water levels
GW Elevation	Option B - Static GW levels decline below the bottom of the well	GW level measurements / Depth to water / Future simulated GW levels	Static GW levels at or below the bottom of the well screen	Static water levels at least 70 feet above the bottom the well screen
GW Storage Reduction	inadequate GW storage to last through multi-year drought without GW extraction limitations	GW level measurements / Depth to water / Future simulated GW levels	Static water levels equal to the top of the well screen.	Static water levels equivalent to 2011-2016 water lev decline above the top of the well screen.
SW Depletion	Surface water flows are depleted by groundwater extractions or GSA projects and management actions that impairs the beneficial use of the resource	GW level measurements / Depth to water / Future	?	?
Land Subsidence	land subsidence amounts that interfere with critical infrastructure operations / >1 ft of subsidence in a single year OR 1 ft of cumulative net subsidence over 5 years	InSAR data for recent historical monitoring / Potential Subsidence Screening Tool for potential future subsidence	Water levels twenty (20) feet below the historic low water levels	Water levels at (or above) historical low levels
Degraded WQ	water quality degradation that occurs due to GSA projects or management actions that impairs the beneficial use of the resource	Groundwater and surface water sampling and laboratory analyses	Option A - Water quality values included in existing or future regulations.	Option A - The authority to regulate water quality is afforded to State and Federal agencies other than th FPBGSA. FPBGSA is not a water purveyor and does n have the authority for water quality compliance buy will cooperate with appropriately empowered entities.
Degraded WQ	water quality degradation that occurs due to GSA projects or management actions that impairs the beneficial use of the resource	Groundwater and surface water sampling and laboratory analyses	Option B - Maximum Contaminant Level (MCL), Health Goal, or other value specific to beneficial use (e.g., agriculture, vegetation, industrial), as appropriate.	Option B - FPBGSA is not a groundwater producer, at as such, does not function as a potable or irrigation water purveyor. FPBGSA does not have the authorit for water quality compliance but will cooperate wit appropriately empowered entities.
Seawater Intrusion	Not Applicable	Not Applicable	Not Applicable	Not Applicable









### Water Quality Degradation

- √ DWR has not prepared BMP or Guidance Document
- ✓ Regulations focused on contaminated sites do not address naturally occurring compounds (e.g., TDS, arsenic)
- ✓ GSAs generally do not have authority over water quality (RWQCB, DTSC, EPA) or some of the aspects that can impact water quality (e.g., land use)
  - Not responsible for <u>enforcing water quality standards</u> or <u>collecting</u> <u>data to support existing water quality programs</u>
- ✓ GSA not required to "fix" issues existing prior to 01 Jan 2015 (when SGMA became effective)
  - · ...but GSP should not make conditions worse

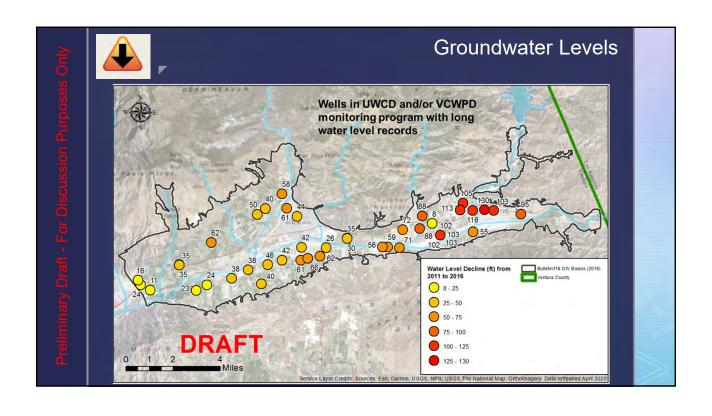
### Water Quality Degradation

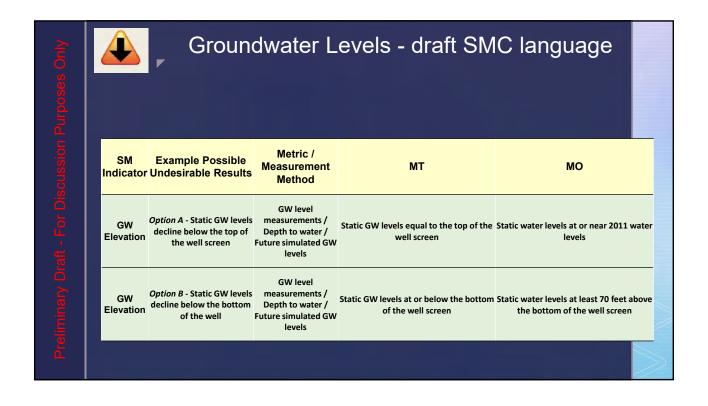
✓ GSAs have broad powers "...perform any act necessary or proper to carry out the purposes of SGMA..."

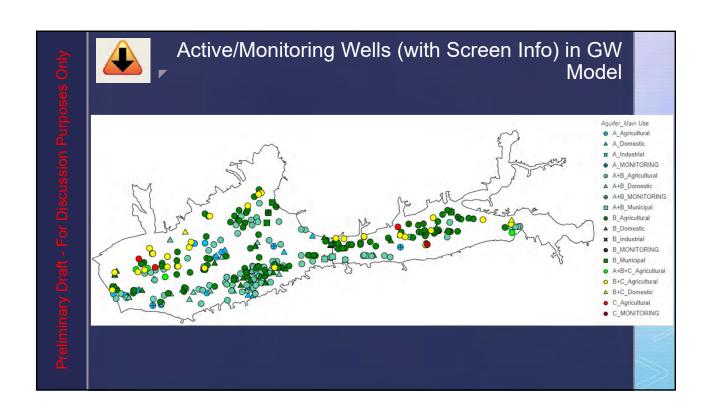
### **Gray Zone:**

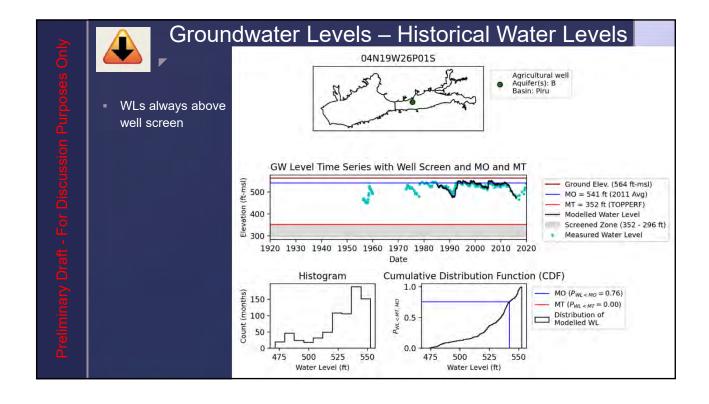
- Are GSAs responsible to address WQ problems that were present prior to 01Jan15 and have gotten worse?
- Are GSAs responsible for WQ problems not being addressed by other regulatory agencies?

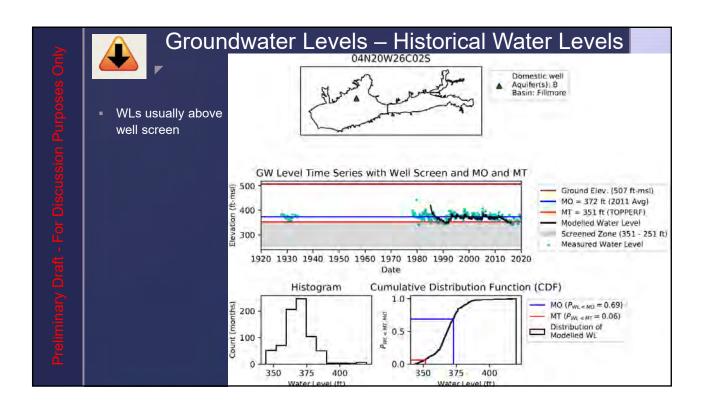
SM Indicator	Example Possible Undesirable Results	Metric / Measurement Method	МТ	МО
Degraded WQ	water quality degradation that occurs due to GSA projects or management actions that impairs the beneficial use of the resource	Groundwater and surface water sampling and laboratory analyses	Option A - Water quality values included in existing or future regulations.	Option A - The authority to regu water quality is afforded to State Federal agencies other than the Ff FPBGSA is not a water purveyor does not have the authority for a quality compliance but will coop with appropriately empowered e
Degraded WQ	water quality degradation that occurs due to GSA projects or management actions that impairs the beneficial use of the resource	Groundwater and surface water sampling and laboratory analyses	Option B - Maximum Contaminant Level (MCL), Health Goal, or other value specific to beneficial use (e.g., agriculture, vegetation, industrial), as appropriate.	Option B - FPBGSA is not a ground producer, and as such, does not fur as a potable or irrigation wat purveyor. FPBGSA does not hav authority for water quality comp but will cooperate with approprempowered entities.

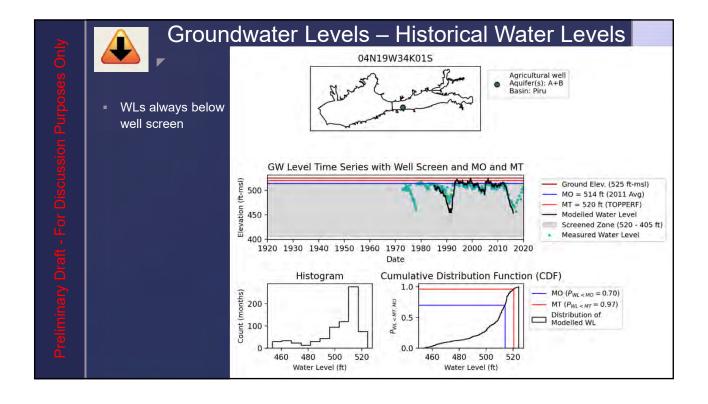


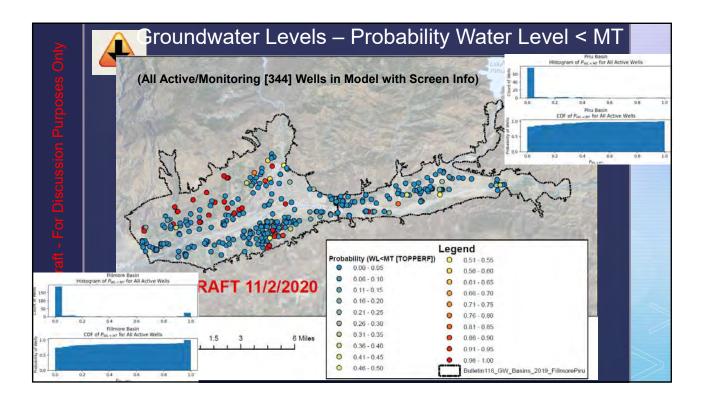


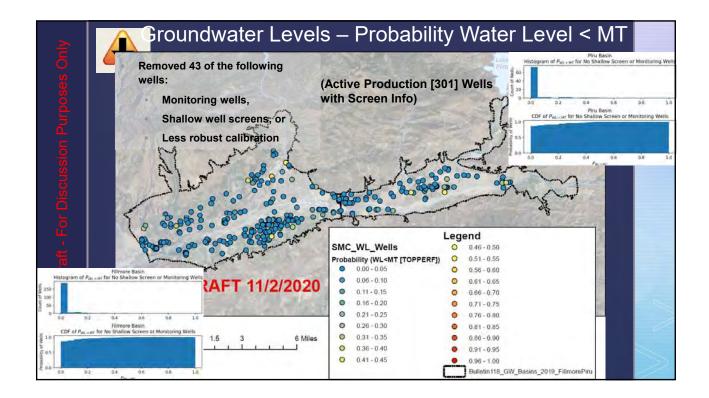


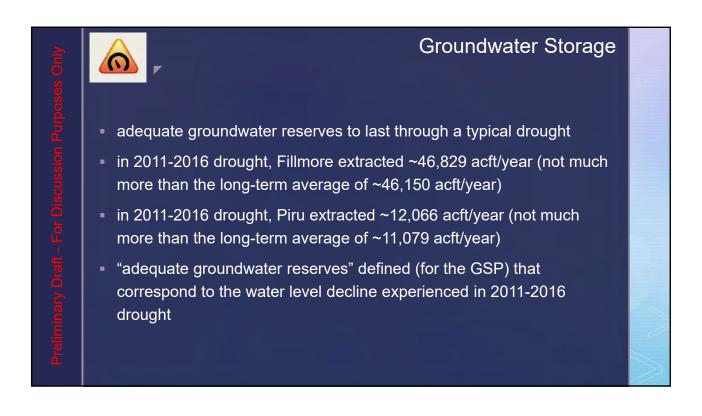




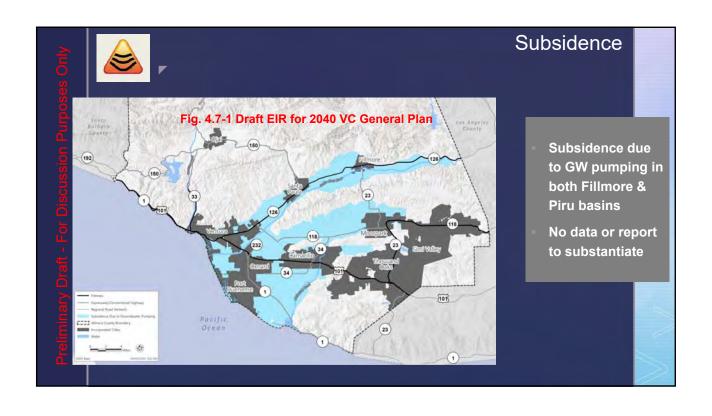


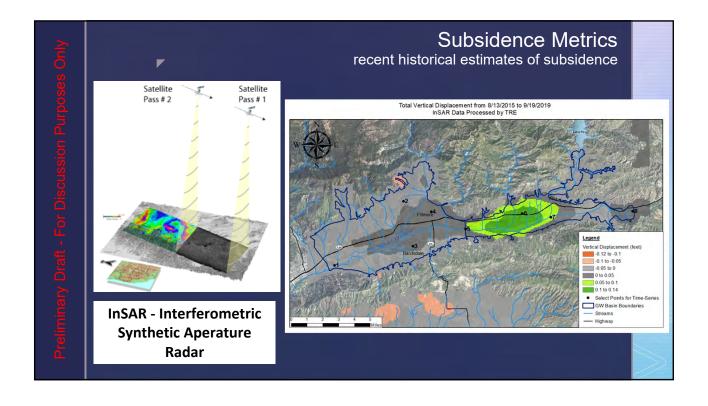


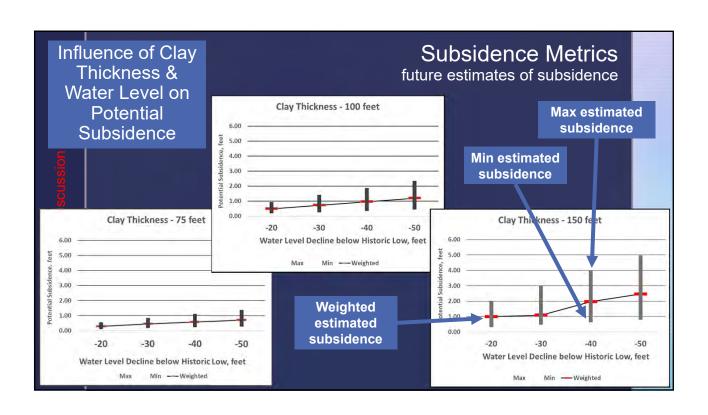




	Ground	dwater S	torage - draft SN	/IC language
SM Indicator	Example Possible Undesirable Results	Metric / Measurement Method	МТ	МО
GW Storage Reduction	inadequate GW storage to last through multi-year drought without GW extraction limitations	GW level measurements / Depth to water / Future simulated GW levels	Static water levels equal to the top of the well screen.	Static water levels equivalent to 20: 2016 water level decline above the of the well screen.





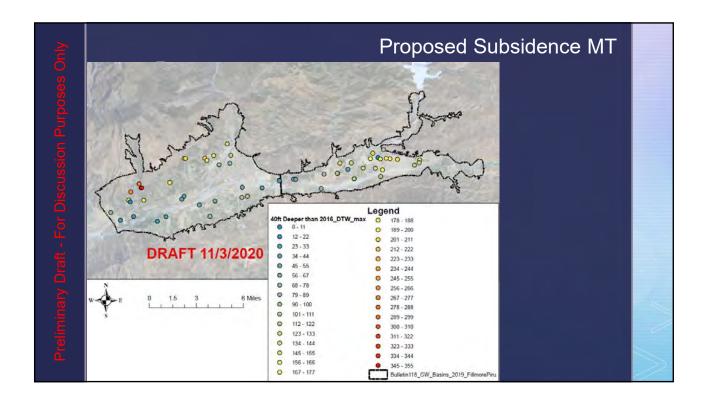


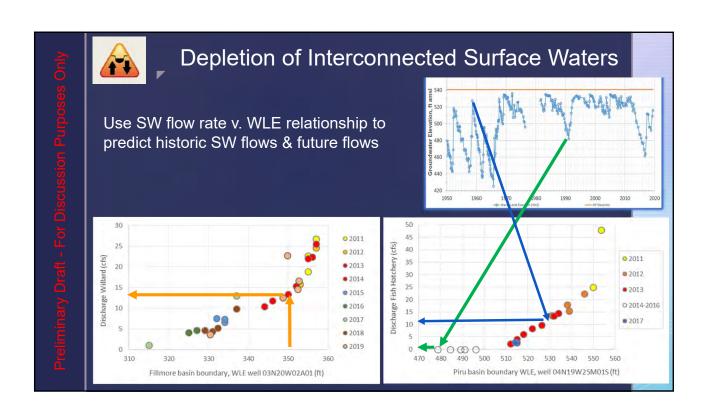
# Preliminary Draft - For Discussion Purposes Only

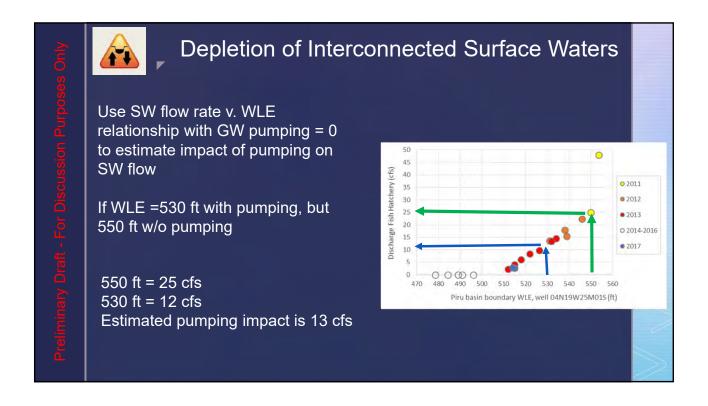
### Subsidence MT

- WL data from wells with long records often suggest that water levels in 1940 - 1970 were lower than 2016 drought low
- Data from 1940 1970 sparse, but useful
- Subsidence MT
  - o 2016 low WL
  - o minus 20 ft to estimate historical WLs
  - minus 20 ft to approximate a maximum of 1 ft of allowable subsidence
  - o So, MT = 2016 low WL 40 ft

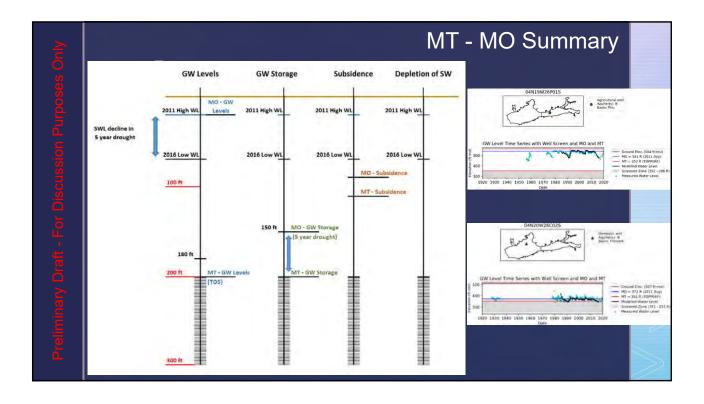
I and intrastructure operations	,				
amounts that interfere with critical Land infrastructure operations Subsidence / >1 ft of subsidence in a single year OR 1 ft of cumulative net  InSAR data for recent historical monitoring / Potential Subsidence Screening Tool for potential future subsidence  Water levels twenty (20) feet below the historic low water levels above) historic levels				МТ	МО
		amounts that interfere with critical infrastructure operations / >1 ft of subsidence in a single year OR 1 ft of cumulative net	historical monitoring / Potential Subsidence Screening Tool for potential future subsidence	(20) feet below the historic low water	Water levels a above) historica levels

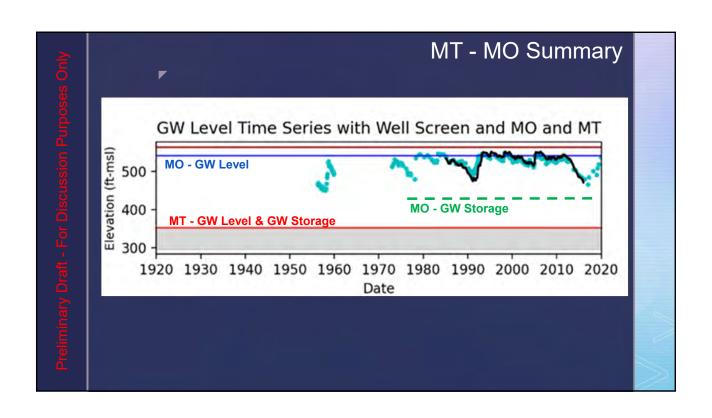


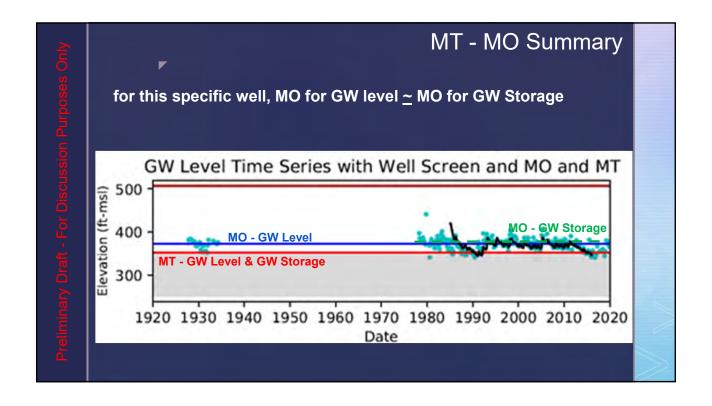


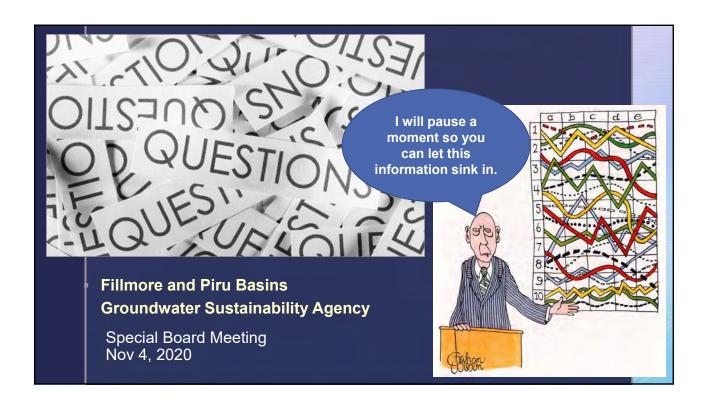


SM Indicator   Example Possible Undesirable Results   Metric / Measurement Method   MT   MO    Surface water flows are depleted by groundwater extractions or GSA projects and management actions that impairs the beneficial use of the resource   GW levels   Puture simulated   Puture si	Depletio •	n of Intei	connected Surfa draft SN	ace Waters - IC language
depleted by groundwater extractions or GSA projects and management actions that impairs the beneficial use of the  depleted by groundwater GW level measurements / Depth to water / Future simulated GW levels		Measurement	МТ	мо
	depleted by groundwater extractions or GSA projects and management actions that impairs the beneficial use of the	measurements / Depth to water / Future simulated	?	?









# SUSTAINABLE MANAGEMENT CRITIERA MATRIX (DRAFT - FOR INTERNAL DISCUSSIONS ONLY) 04Nov20

SM Indicator	Example Possible Undesirable Results	Metric / Measurement Method	МТ	МО
GW Elevation	Option A - Static GW levels decline below the top of the well screen	GW level measurements / Depth to water / Future simulated GW levels	Static GW levels equal to the top of the well screen	Static water levels at or near 2011 water levels
GW Elevation	Option B - Static GW levels decline below the bottom of the well Simulated GW levels		Static GW levels at or below the bottom of the well screen	Static water levels at least 70 feet above the bottom of the well screen
GW Storage Reduction	inadequate GW storage to last through multi-year drought without GW extraction limitations	GW level measurements / Depth to water / Future simulated GW levels	Static water levels equal to the top of the well screen.	Static water levels equivalent to 2011-2016 water level decline above the top of the well screen.
SW Depletion	Surface water flows are depleted by groundwater extractions or GSA projects and management actions that impairs the beneficial use of the resource	GW level measurements / Depth to water / Future simulated GW levels	?	?
Land Subsidence	land subsidence amounts that interfere with critical infrastructure operations / >1 ft of subsidence in a single year OR 1 ft of cumulative net subsidence over 5 years  InSAR data for recent historical monitoring / Potential Subsidence Screening Tool for potent future subsidence		Water levels twenty (20) feet below the historic low water levels	Water levels at (or above) historical low levels
Degraded WQ	water quality degradation that occurs due to GSA projects or management actions that impairs the beneficial use of the resource Groundwater and surfact water sampling and laboratory analyses		Option A - Water quality values included in existing or future regulations.	Option A - The authority to regulate water quality is afforded to State and Federal agencies other than the FPBGSA. FPBGSA is not a water purveyor and does not have the authority for water quality compliance but will cooperate with appropriately empowered entities.
Degraded WQ	water quality degradation that occurs due to GSA projects or management actions that impairs the beneficial use of the resource	Groundwater and surface water sampling and laboratory analyses	Option B - Maximum Contaminant Level (MCL), Health Goal, or other value specific to beneficial use (e.g., agriculture, vegetation, industrial), as appropriate.	Option B - FPBGSA is not a groundwater producer, and as such, does not function as a potable or irrigation water purveyor. FPBGSA does not have the authority for water quality compliance but will cooperate with appropriately empowered entities.
Seawater Intrusion	Not Applicable	Not Applicable	Not Applicable	Not Applicable

### **BACKGROUND**

DWR (2017) provides the following considerations "...when establishing minimum thresholds for groundwater levels at a given representative monitoring site may include, but are not limited to..."

### What are the historical groundwater conditions in the basin?

Groundwater conditions (i.e., water levels) in these basins vary based on water year type, the amount of reservoir releases or imports of State Water Project water, and groundwater extractions (see key well hydrographs attached at the end of this document).

What are the average, minimum, and maximum <u>screen and casing</u> depths of municipal, agricultural, and domestic wells?

		Depth to Top of Screen (ft)										
Basin			Fillmore			Piru						
Use	Agricultural	Domestic	Industrial	Monitoring	Municipal	Agricultural	Domestic	Industrial	Monitoring	Municipal		
count	214	86	2	5	8	87	15	2	12	3		
min	11	26	200	1	50	5	20	57	18	160		
50%	120	98	200	10	95	180	140	209	75	160		
max	633	294	200	120	260	568	220	360	590	400		

	Depth to Bottom of Screen (ft)										
Basin			Fillmore			Piru					
Use	Agricultural	Domestic	Industrial	Monitoring	Municipal	Agricultural	Domestic	Industrial	Monitoring	Municipal	
count	214	86	2	5	8	87	15	2	12	3	
min	86	68	600	12	150	40	47	93	43	450	
50%	280	200	600	40	269	304	200	307	110	470	
max	1580	555	600	300	502	800	420	520	610	480	

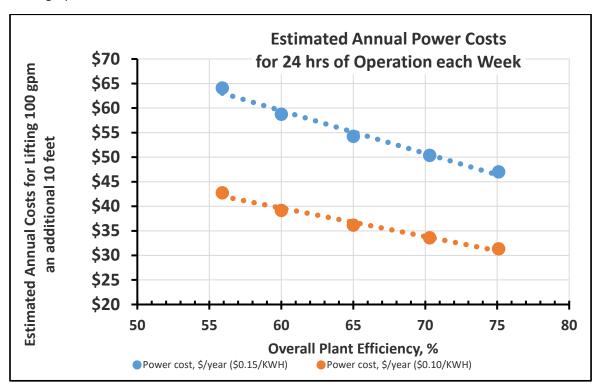
	Total Depth of Well Casing (ft)										
Basin			Fillmore			Piru					
Use	Agricultural	Domestic	Industrial	Monitoring	Municipal	Agricultural	Domestic	Industrial	Monitoring	Municipal	
count	212	90	2	5	9	86	15	2	12	3	
min	30	52	600	12	150	60	47	103	43	450	
50%	300	183	600	40	270	330	200	312	114	480	
max	1620	575	600	300	502	820	428	520	610	490	

# What are the screen intervals of the wells?

See above for general statistics - for individual wells, please refer to Appendix A Groundwater Level Hydrographs in Fillmore and Piru Groundwater Basins Monitoring Program and Data Gap Analysis DRAFT Technical Memorandum OR the online database at www.fillmore-piru.gladata.com.

## What impacts do water levels have on pumping costs (e.g., energy cost to lift water)?

Calculation of the additional costs to lift groundwater depends on the amount of water (i.e., flow rate [gpm]), amount of the additional lift, overall plant efficiency [OPE], and cost of power. These variables are often well specific, but the general relationship of energy cost to increasing lift and groundwater extraction amount are shown in the graph below:



### What are the adjacent basin's minimum thresholds for groundwater elevations?

The Santa Paula basin is located down gradient and immediately west of the Fillmore basin. This basin is adjudicated and is not required to develop sustainable management criteria (e.g., minimum thresholds).

The Upper Santa Clara River basin is located east of the Piru basin and immediately upgradient of the basin. The draft GSP for this basin proposes a minimum threshold of

What are the potential impacts of changing groundwater levels on groundwater dependent ecosystems?

TBD (see the Surface Water – Groundwater Interactions Fact Sheet).

Which principal aquifer, or aquifers, is the representative monitoring site evaluating? **TBD** 

# **UNDESIRABLE RESULT(S)**

*Proposed language:* **Option A** - An *Undesirable Result* occurs when static groundwater levels decline below the top of the well screen.

*Proposed language:* **Option B** - An *Undesirable Result* occurs when static groundwater levels decline below the bottom of the well.

### METRIC AND MEASUREMENT METHODOLOGY

Proposed metric: Groundwater level measurements / Depth to water

*Proposed Measurement Methodology:* The groundwater level measurements performed for several wells in the basins by UWCD and VCWPD will be used to monitor recent historical and ongoing groundwater level fluctuations.

Future groundwater fluctuations will be evaluated using the future conditions water levels predicted by the groundwater flow model developed by United Water Conservation District (UWCD).

# **MINIMUM THRESHOLD (MT)**

*Proposed language:* **Option A** - Static water levels equal to the top of the well screen.

Proposed language: Option B - Static water levels at or below the bottom of the well screen.

# **MEASURABLE OBJECTIVE (MO)**

*Proposed language:* **Option A** - Static water levels at or near 2011 levels.

Proposed language: Option B - Static water levels at least 70 ft above the bottom of the well screen.

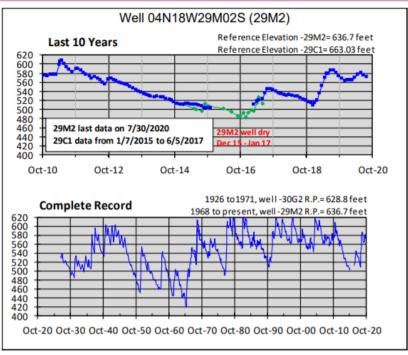
### Assumptions:

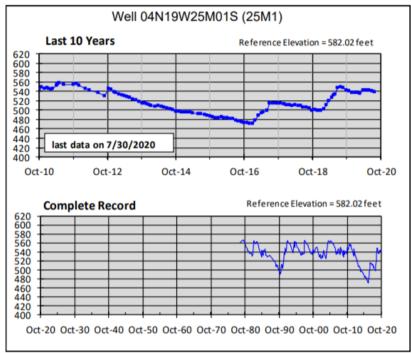
- 8 ft long pump bowls
- 10 ft of water above the top of bowls
- 50 ft of drawdown due to pumping (1,000 gpm for a well with 20 gpm/ft specific capacity)
- About 70 ft of water level

#### REFERENCES

California Dept of Water Resources, 2017, Sustainable Management Criteria Best Management Practices - Draft, November 2017.

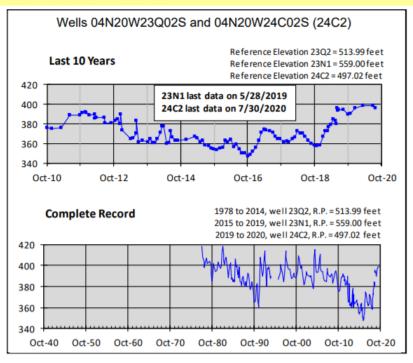
## Piru Basin Key Wells Groundwater Elevation Records

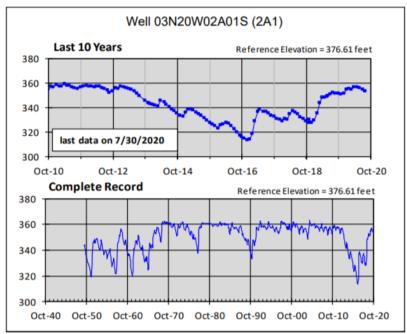




UWCD July 2020 Hydrologic Conditions Report. Page 4

# Fillmore Basin Key Wells Groundwater Elevation Records



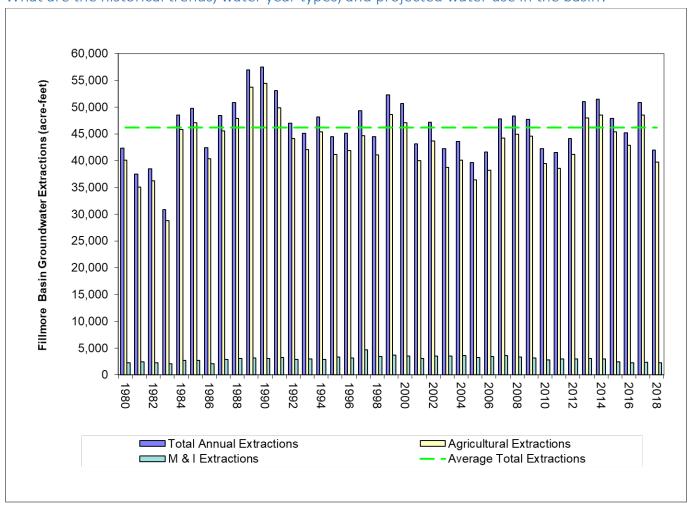


UWCD July 2020 Hydrologic Conditions Report. Page 5

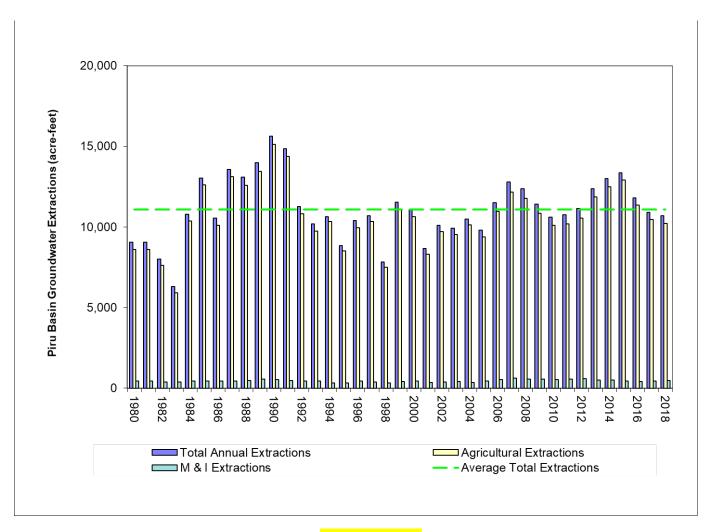
### **BACKGROUND**

DWR (2017) provides the following considerations "...when establishing minimum thresholds for groundwater storage may include, but are not limited to..."

What are the historical trends, water year types, and projected water use in the basin?



	Acre-feet
average 1980-2018	46,150
average 1984-1991	50,918
average 1992-2018	46,054
median 1980-2018	46,948
2011-2016 drought extractions	280,974
2011-2016 average annual drought extractions	46,829



	Acre-feet
average 1980-2018	11,079
average 1984-1991	13,187
average 1992-2018	10,895
median 1980-2018	10,790
2011-2016 drought extractions	72,397
2011-2016 average annual drought extractions	12,066

### What groundwater reserves are needed to withstand future droughts?

Based on historical pumping (2011-2016), Fillmore Basin pumped about 47,000 AFY and Piru pumped about 12,000 AFY. For future projections, we will rely on the groundwater flow model to estimate how much storage reserves are needed to withstand expected droughts.

### Have production wells ever gone dry?

There is no substantiated record of a potable water well going dry in either basin. Based on water level declines in the 2011-2016 drought period, a single agricultural irrigation well is thought to have had water levels drop below the bottom of the well.

What is the effective storage of the basin? This may include understanding of the:

TBC

✓ Average, minimum, and maximum depth <u>well screen and casing</u> of municipal, agricultural, and domestic wells.

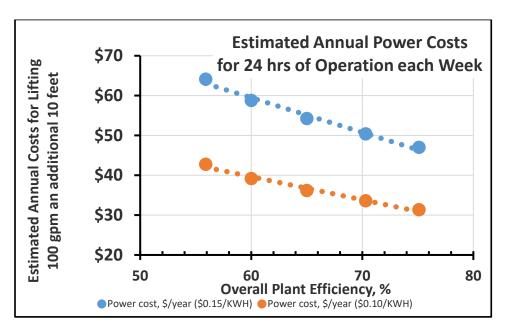
		Depth to Top of Screen (ft)									
Basin			Fillmore			Piru					
Use	Agricultural	Domestic	Industrial	Monitoring	Municipal	Agricultural	Domestic	Industrial	Monitoring	Municipal	
count	214	86	2	5	8	87	15	2	12	3	
min	11	26	200	1	50	5	20	57	18	160	
50%	120	98	200	10	95	180	140	209	75	160	
max	633	294	200	120	260	568	220	360	590	400	

		Depth to Bottom of Screen (ft)										
Basin			Fillmore			Piru						
Use	Agricultural	Domestic	Industrial	Monitoring	Municipal	Agricultural	Domestic	Industrial	Monitoring	Municipal		
count	214	86	2	5	8	87	15	2	12	3		
min	86	68	600	12	150	40	47	93	43	450		
50%	280	200	600	40	269	304	200	307	110	470		
max	1580	555	600	300	502	800	420	520	610	480		

		Total Depth of Well Casing (ft)									
Basin			Fillmore			Piru					
Use	Agricultural	Domestic	Industrial	Monitoring	Municipal	Agricultural	Domestic	Industrial	Monitoring	Municipal	
count	212	90	2	5	9	86	15	2	12	3	
min	30	52	600	12	150	60	47	103	43	450	
50%	300	183	600	40	270	330	200	312	114	480	
max	1620	575	600	300	502	820	428	520	610	490	

<sup>✓</sup> Impacts on pumping costs (i.e., energy cost to lift water).

Calculation of the additional costs to lift groundwater depends on the amount of water (i.e., flow rate [gpm]), amount of the additional lift, overall plant efficiency [OPE], and cost of power. These variables are often well specific, but the general relationship of energy cost to increasing lift and groundwater extraction amount are shown in the graph below:



### What are the adjacent basin's minimum thresholds?

The Santa Paula basin is located down gradient and immediately west of the Fillmore basin. This basin is adjudicated and is not required to develop sustainable management criteria (e.g., minimum thresholds).

The Upper Santa Clara River basin is located east of the Piru basin and immediately upgradient of the basin. The draft GSP for this basin proposes a minimum threshold of \_\_\_\_\_\_\_.

# **UNDESIRABLE RESULT(S)**

*Proposed language:* **Option A** - An *Undesirable Result* occurs when there is inadequate groundwater storage to last through a multi-year drought (e.g., 5 years) without groundwater extraction limitations

### METRIC AND MEASUREMENT METHODOLOGY

Proposed metric: Groundwater level measurements / Depth to water

*Proposed Measurement Methodology:* The groundwater level measurements performed for several wells in the basins by UWCD and VCWPD will be used to monitor recent historical and ongoing groundwater level fluctuations.

Future groundwater fluctuations will be evaluated using the future conditions water levels predicted by the groundwater flow model developed by United Water Conservation District (UWCD).

# **MINIMUM THRESHOLD (MT)**

Proposed language: Option A - Static water levels equal to the top of the well screen.

# **MEASURABLE OBJECTIVE (MO)**

*Proposed language:* **Option A** - Static water levels equivalent to the 2011-2016 water level decline above the top of the well screen.

# **REFERENCES**

California Dept of Water Resources, 2017, Sustainable Management Criteria Best Management Practices - Draft, November 2017.

# SUSTAINABLE MANAGEMENT INDICATOR - SUBSIDENCE (Fillmore and Piru basins)

### **BACKGROUND**

DWR (2014) lists Fillmore basin with low potential for future subsidence. The ranking was determined from long term water level trends (well records greater than 10 years) above historical lows and one active continuous GPS monitoring station (see *Geodetic Data*) showing 0.03 feet of maximum decrease in ground elevation. The Piru basin had insufficient data to establish a subsidence ranking.

DWR (2017) provides the following considerations "...when establishing minimum thresholds for land subsidence at a given representative monitoring site may include, but are not limited to..."

## Do principal aguifers in the basin contain aguifer material susceptible to subsidence?

A review of driller's logs and borehole geophysical logs from representative wells in the basin indicate that aquifer zones A, B, and C contain fine-grained sediments that may be susceptible to subsidence. The thickness of those materials varies at each well location.

### What is the historical rate and extent of subsidence?

Subsidence has not been documented by historical anecdotal observations, physical manifestations (e.g., well heads suspended above ground, collapsed well casings, offset roadways) or quantitative methods in these basins. DWR (2014) reports Low subsidence potential for the Fillmore basin and insufficient data to make an evaluation for the Piru basin.

### What are the land uses and property interests in areas susceptible to subsidence?

Land use in these basins is predominately agriculture with municipal development associated with the City of Fillmore and Town of Piru and numerous single family residences/farms scattered throughout the basins.

What is the location of infrastructure and facilities susceptible to subsidence (e.g., canals, levees, pipelines, major transportation corridors)?

Conveyance infrastructure in the basin includes:

- √ transportation routes such as Highway 126 and other local roadways, as well as related structures (e.g., bridges, overpasses);
- ✓ pipelines for water distribution in the City of Fillmore and Town of Piru;
- ✓ pipelines for sewage collection in the City of Fillmore and Town of Piru and delivery of that sewage to their respective treatment plants;
- ✓ pipelines for natural gas distribution major pipelines for natural gas transmission generally follow the Hwy 126 alignment except near the City of Fillmore where the alignment deviates to the north near Sespe Creek
  - (https://socalgas.maps.arcgis.com/apps/webappviewer/index.html?id=12cb8fddd6184f1bafc565ed09e 4f631). Additionally, a natural gas pipeline oriented north-south extends from Torrey Canyon south the the Santa Clara River northward along Torrey Road/Bridge and into the Town of Piru (https://pvnpms.phmsa.dot.gov/PublicViewer/);
- √ field-scale irrigation systems; and
- ✓ surface-water diversion structures (e.g., Piru Mutual Water Company structures on Piru Creek).

PRELIMINARY DRAFT - FOR DISCUSSION PURPOSES ONLY - NOT FOR PUBLICATION

# SUSTAINABLE MANAGEMENT INDICATOR - SUBSIDENCE (Fillmore and Piru basins)

These features are considered critical infrastructure.

### What are the adjacent basin's minimum thresholds?

The Santa Paula basin is located down gradient and immediately west of the Fillmore basin. This basin is adjudicated and is not required to develop sustainable management criteria (e.g., minimum thresholds).

The Upper Santa Clara River basin is located east of the Piru basin and immediately upgradient of the basin. The draft GSP for this basin proposes a minimum threshold of \_\_\_\_\_\_.

# **UNDESIRABLE RESULT(S)**

*Proposed language:* An *Undesirable Result* is inelastic land subsidence amounts that interfere with critical infrastructure operations. *Undesirable Results* are expected to occur when net subsidence rates are greater than or equal to 1 ft/year or a cumulative net subsidence greater than or equal to 1 foot over a 5 year period.

### METRIC AND MEASUREMENT METHODOLOGY

Proposed metric: Subsidence rate (e.g., feet/year) and cumulative net subsidence.

*Proposed Measurement Methodology:* Recent historical subsidence (May 2015 - September 2019) will be evaluated using InSAR data provided by the CA DWR. The InSAR data set will be used to monitor subsidence amounts and rates in arrears for each year the data sets are provided by CA DWR.

Future subsidence potential will be evaluated using the Texas Water Development Board (TWDB) Potential Subsidence Prediction Screening Tool (LRE, Inc., 2018). Future water levels at key indicator wells in each basin will be predicted by using the groundwater elevation output from the groundwater flow model developed by United Water Conservation District (UWCD) in the screening tool and using the tool to estimate future potential subsidence under various future hydrologic conditions.

# **MINIMUM THRESHOLD (MT)**

*Proposed language:* **Proxy MT** - Water levels twenty (20) feet below the historic low water levels (2016 low water level minus 20 feet). The TWDB Subsidence Prediction Screening Tool suggests that water levels can decline by at least 20 feet below their historical low levels and the predicted total subsidence will be less than 1 foot.

# **MEASURABLE OBJECTIVE (MO)**

*Proposed language:* **Proxy MO** - Water levels at or above the historical low values will be sufficient to preclude subsidence.

### **REFERENCES**

Borchers, James W., Grabert, Vicki Kretsinger, Carpenter, Michael, Dalgish, Barbara, and Cannon Debra, 2014, Land Subsidence from Groundwater Use in California, prepared by Luhdorff & Scalmanni Consulting Engineers.

PRELIMINARY DRAFT - FOR DISCUSSION PURPOSES ONLY - NOT FOR PUBLICATION

# **SUSTAINABLE MANAGEMENT INDICATOR - SUBSIDENCE** (Fillmore and Piru basins)

California Dept of Water Resources, 2017, Sustainable Management Criteria Best Management Practices - Draft, November 2017.

California Department of Water Resources, 2014, Summary of Recent, Historical, and Estimated Future Land Subsidence in California.

LRE Water, LLC, 2018, Texas Aquifer Potential Subsidence Prediction Screening Tool User's Guide, Version 1.0, TWDB Contract Number 1648302062, March 21, 2018.

# SUSTAINABLE MANAGEMENT INDICATOR - Depletion of Interconnected Surface Waters (Fillmore and Piru basins)

# **BACKGROUND**

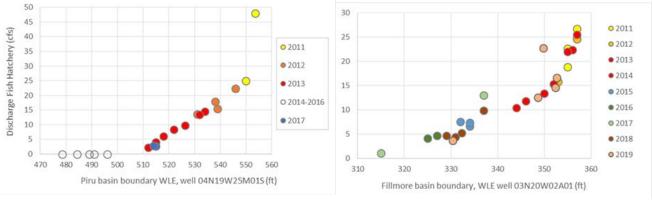
DWR (2017) provides the following considerations "...when establishing minimum thresholds for groundwater levels at a given representative monitoring site may include, but are not limited to..."

What are the historical rates of stream depletion (from groundwater extractions) for different water year types?

TBD - see discussion below

What is the uncertainty in streamflow depletion estimates (from groundwater extractions) from analytical and numerical tools?

This question is currently being explored using two different methods. At the basin boundaries in the areas of the rising groundwater, there are apparent relationships between surface water flow rates and the water levels in a nearby well (graphs below). UWCD staff are researching their database to determine if other wells have a similar relationship. The goal is to identify, where possible, a relationship between surface water flows and groundwater elevations in the shallow aquifers near the areas with rising groundwater. Using this relationship, it would be possible to estimate the surface water flow rates when the groundwater elevations are known from direct measurement or from model simulations.



The second analytical approach being explored uses the UWCD groundwater flow model. UWCD staff are running a scenario (over the historical and validation timeline [1985-2019]) where the groundwater extractions in the shallow aquifers (Aquifer Zones A and B) are terminated and the differences in groundwater elevations compared to the water levels from the historical (i.e., status quo) scenario. Groundwater elevations from the simulation can then be used to infer the degree of impact pumping has on surface water flow.

### What is the proximity of pumping to streams?

There are several wells in close proximity to the streams in the Fillmore and Piru basins. The streams are ephemeral in nature with gaining reaches of the Santa Clara River associated with the boundaries between

# SUSTAINABLE MANAGEMENT INDICATOR - Depletion of Interconnected Surface Waters (Fillmore and Piru basins)

Piru/Fillmore basins and Fillmore/Santa Paula basins. The potential impacts of groundwater extraction on surface water flow in the gaining reaches of the Santa Clara River are being studied (see above).

### Where are groundwater dependent ecosystems in the basin?

Groundwater dependent ecosystems (GDEs) are primarily focused in the gaining reaches of the Santa Clara River (i.e., boundaries between Piru/Fillmore basins and Fillmore/Santa Paula basins). Much of the remaining reaches of the Santa Clara River are characterized as naturally occurring losing reaches that remain dry except due to storm runoff and/or man-made releases of water from nearby reservoirs.

### What are the agricultural and municipal surface water needs in the basin?

Agricultural and municipal water demand is not significantly satisfied by the surface water sources in these basins. The ephemeral nature of the Santa Clara River does not provide a reliable water source. Piru Mutual Water Company has a surface water diversion facility on Piru Creek.

# What are the applicable State or federally mandated flow requirements?

Currently, Federally mandated flow rates are restricted to the Santa Clara River and Piru Creek downstream of Santa Felicia Dam. The flow rates were established to enhance the potential for fish passage during storm events (Santa Clara River) and to augment fish passage and spawning habitats along Piru Creek. UWCD releases water from Lake Piru via the Santa Felicia Dam in accordance with regulatory requirements. The FPBGSA does not own or control the operation of Santa Felicia Dam, and therefore has no direct involvement in compliance with the Federally mandated flow rates.

# **UNDESIRABLE RESULT(S)**

*Proposed language:* **Option A** - An *Undesirable Result* occurs when surface water flows are depleted by groundwater extractions or GSA projects and management actions that impairs the beneficial use of the resource.

### METRIC AND MEASUREMENT METHODOLOGY

Proposed metric: Groundwater level measurements / Depth to water

*Proposed Measurement Methodology:* The groundwater level measurements performed for several wells in the basins by UWCD and VCWPD will be used to monitor recent historical and ongoing groundwater level fluctuations.

Future groundwater fluctuations will be evaluated using the future conditions water levels predicted by the groundwater flow model developed by United Water Conservation District (UWCD).

# MINIMUM THRESHOLD (MT)

Proposed language: Option A - Surface water flows...

# SUSTAINABLE MANAGEMENT INDICATOR - Depletion of Interconnected Surface Waters (Fillmore and Piru basins)

# **MEASURABLE OBJECTIVE (MO)**

Proposed language: Option A - Surface water flows...

# **REFERENCES**

California Dept of Water Resources, 2017, Sustainable Management Criteria Best Management Practices - Draft, November 2017.

### **BACKGROUND**

DWR (2017) provides the following considerations "...when establishing minimum thresholds for groundwater storage may include, but are not limited to..."

### What are the historical and spatial water quality trends in the basin?

Historically water quality chemicals (analytes or constituents) of concern (COCs) in the basins have generally included, but are not necessarily limited to, the following analytes:

- Total Dissolved Solids (TDS)
- Sulfate
- Chloride
- Nitrate
- Boron (UWCD monitoring program only)

See Tables 4-3 and 4-4 (attached) for more details.

### What is the number of impacted supply wells?

TBD – see the Draft Monitoring Program and Data Gap Analysis Technical Memorandum for more details.

# What aquifers are primarily used for providing water supply?

	Fillmore	Basin Pumping	5	Piru Basin Pumping				
Aquifer	Number	Extractions	Percent	Aquifer	Number	Extractions	Percent	
Zone(s)	of Wells	in AFY	of Total	Zone(s)	of Wells	in AFY	of Total	
Α	24	422	1.0	Α	3	35	0.3	
A-B	97	13,857	33.0	A-B	12	809	7.6	
В	86	16,556	39.4	В	55	5,765	53.9	
A-C	3	804	1.9	A-C	1	93	0.9	
B-C	18	3,660	8.7	B-C	12	1,801	16.8	
С	2	340	0.8	С	2	338	3.2	
Unknown	71	6,338	15.1	Unknown	22	1,849	17.3	
2018 Total	301	41,977	100	2018 Total	107	10,689	100	

Table 5-5: Summary of Fillmore and Piru basins wells accessing groundwater from each aquifer zone or zones in 2018.

Approximately 72% of the groundwater extractions came from Aquifer Zone A-B and B in the Fillmore basin with ~61% of the groundwater extractions came from these same Aquifer Zones in the Piru basin. The Piru basin also had another ~17% of extractions from Aquifer Zone B-C.

What is the estimated volume of contaminated water in the basin?

TBD – see the Draft Monitoring Program and Data Gap Analysis Technical Memorandum for more details.

What are the spatial and vertical extents of major contaminant plumes in the basin, and how could plume migration be affected by regional pumping patterns?

From (UWCD, 2016): "Over the past 15 years the main water quality concern for agricultural users in the Piru basin has been impacts associated with high chloride concentrations in the Santa Clara River flows sourcing from Los Angeles County. The high chloride concentrations in the eastern portion of the basin associated with these discharges has made a steady advance westward with groundwater flow down the Piru basin. The Piru basin generally does not have problems with nitrate contamination, and samples collected in 2015 show only two wells exceeding the MCL of 45 mg/L."

From (UWCD, 2016): "The Fillmore basin is not known for having any pervasive water quality issues. TDS concentrations can be somewhat elevated in some locations, as in other groundwater basins along the Santa Clara River Valley. The City of Fillmore no longer uses wells near the Santa Clara River favoring locations near Sespe Creek where TDS tends to be lower. Naturally-occurring boron sourcing from the Sespe watershed, however, is sometimes a concern for citrus growers and the City of Fillmore. Deeper aquifer units may have elevated concentrations of iron and manganese, a common occurrence throughout Ventura County."

What are the applicable local, State, and federal water quality standards? Major regulating agencies include:

Jurisdictions	Regulating agency
Waste discharge requirements (WDRs and waivers); underground storage tanks; and groundwater clean-up programs	SWRCB
Overall groundwater quality (policies & enforcement); underground storage tanks; groundwater clean-up programs; Bay-Delta region; aquifer exemptions (SDWA)	SWRCB
Safe drinking water quality requirements	Division of Drinking Water (SWRCB, CalEPA)
Hazardous waste management and remediation requirements	Department of Toxic Substances Control (CalEPA)
Superfund requirements; aquifer exemptions (SDWA)	United States Environmental Protection Agency
Underground injection wells (Class II); aquifer exemptions (under SDWA)	Division of Oil, Gas, and Geothermal Resources (DOC)
Pesticide use and reporting requirements	Department of Pesticide Regulation (CalEPA)
Well construction/destruction; wellhead protection; septic systems; storage/leaking of hazardous materials, etc.; pesticides; SDWA enforcement (where delegated by DDW)	Counties and cities

## (modified from Moran and Belin, 2019)

Water quality standards include, for example, Maximum Contaminant Levels (MCLs), Basin Plan Water Quality Objectives (WBOs) from RWQCB, and informal suitability assessments (e.g., 117mg/L maximum chloride for avocados).

Chemical	Chemical Formula	EPA MCL (mg/l) unless noted	CCR, Title 22 MCL (mg/l)					
Gross Alpha		15 pCi/L						
Lead	Pb	0.015*						
Nitrate (as Nitrogen)	N	10	10					
Nitrate	NO₃		45					
Selenium	Se	0.05	0.05					
Uranium	U	0.03 (~20 pCi/L)						
		Secondary MCL (mg/l)						
Boron	В		1**					
Chloride	CI	250						
Iron	Fe	0.3						
Manganese	Mn	0.05						
Sulfate	SO <sub>4</sub>	250						
Total Dissolved Solids	Total Dissolved Solids TDS 500							
*0.015 mg/L (15 μg/L) is the Action Level for Lead, the public health goal is zero.								
**California State Notification	n Level, Boron is ar	n unregulated chemical wi	ithout an established					

Table 4-2. Select U.S. Environmental Protection Agency Primary and Secondary Standards (May 2009) and California Code of Regulations, Title 22 Maximum Contaminant Levels (February 2012).

What are the major sources of point and nonpoint source pollution in the basin, and what are their chemical constituents?

Point sources include, but are not limited to, the following:

- City of Fillmore Waste Water Treatment Plant (chloride, TDS, TSS);
- County of Ventura (VCWWD No.16) serving Town of Piru (chloride, TDS, TSS); and
- Saugus and Valencia Wastewater Reclamation Plants (chloride).

Non-point sources include, but are not limited to, the following:

- Legacy oilfield brine disposal in the Santa Clara River (chloride in Piru basin east of Piru Creek); and
- Legacy Saugus and Valencia Wastewater Reclamation Plants (chloride).

What regulatory projects and actions are currently established to address water quality degradation in the basin (e.g., an existing groundwater pump and treat system), and how could they be impacted by future groundwater management actions?

TBD

### What are the adjacent basin's minimum thresholds?

The Santa Paula basin is located down gradient and immediately west of the Fillmore basin. This basin is adjudicated and is not required to develop sustainable management criteria (e.g., minimum thresholds).

The Upper Santa Clara River basin is located east of the Piru basin and immediately upgradient of the basin. The draft GSP for this basin proposes a minimum threshold of .

# **UNDESIRABLE RESULT(S)**

*Proposed language:* **Option A** - An *Undesirable Result* occurs when water quality degradation that occurs due to GSA projects or management actions that impair the beneficial use of the resource.

### METRIC AND MEASUREMENT METHODOLOGY

Proposed metric: Groundwater and surface water sampling and laboratory analyses results.

*Proposed Measurement Methodology:* The groundwater quality sampling and laboratory analyses are routinely performed by VCWPD, UWCD, City of Fillmore, and Waring Water. Surface water quality sampling is conducted by UWCD.

# **MINIMUM THRESHOLD (MT)**

Proposed language: Option A - Water quality values included in existing or future regulations.

*Proposed language:* **Option B** - Maximum Contaminant Level (MCL), Health Goal, or other value specific to beneficial use (e.g., agriculture, vegetation, industrial), as appropriate.

# **MEASURABLE OBJECTIVE (MO)**

*Proposed language:* **Option A** - The authority to regulate water quality is afforded to State and Federal agencies other than the FPBGSA. FPBGSA is not a water purveyor and does not have the authority for water quality compliance but will cooperate with appropriately empowered entities.

*Proposed language:* **Option B** - FPBGSA is not a groundwater producer, and as such, does not function as a potable or irrigation water purveyor. FPBGSA does not have the authority for water quality compliance but will cooperate with appropriately empowered entities.

#### REFERENCES

California Dept of Water Resources, 2017, Sustainable Management Criteria Best Management Practices - Draft, November 2017.

PRELIMINARY DRAFT - FOR DISCUSSION PURPOSES ONLY - NOT FOR PUBLICATION

Moran, T. and Belin, A. (2019), A Guide to Water Quality Requirements under the Sustainable Groundwater Management Act, Stanford Digital Repository, https://purl.stanford.edu/dw122nb4780.

UWCD, 2016, 2014 and 2015 Piru and Fillmore Basins Biennial Groundwater Conditions Report, Open-File Report 216-01, June 2016

	DWR	_	Short-Term	Short-Term	Short-Term	Short-Term	Short-Term
SWN	Basin	Screen,	TDS	Sulfate (SO4)	Chloride (CI)	Nitrate (NO3)	Boron (B)
	(2019)	ft bgs	Trend	Trend	Tend	Trend	Trend
03N19W06D03S	Fillmore	184-400	Decreasing	Decreasing	Increasing	Increasing	Decreasing
03N20W01D03S	Fillmore	Unknown	Decreasing	Decreasing	Decreasing	Decreasing	Relatively Stable
03N20W01F05S	Fillmore	100-200	Decreasing	Decreasing	Relatively Stable	Decreasing	Relatively Stable
03N20W02R05S	Fillmore	93-133	Relatively Stable	Relatively Stable	Increasing	Trend Reversal	Relatively Stable
03N20W03D03S	Fillmore	102-397	Insufficient Data	Insufficient Data	Insufficient Data	Increasing	Insufficient Data
03N20W03D05S	Fillmore	274-436	Relatively Stable	Relatively Stable	Increasing	Relatively Stable	Relatively Stable
03N20W03D07S	Fillmore	224-484	Decreasing	Decreasing	Relatively Stable	Decreasing	Increasing
03N20W05C04S	Fillmore	221-362	Insufficient Data	Insufficient Data	Insufficient Data	Increasing	Insufficient Data
03N20W06N02S	Fillmore	240-350	Decreasing	Decreasing	Increasing	Decreasing	Relatively Stable
03N20W08F01S	Fillmore	100-152	Insufficient Data	Insufficient Data	Insufficient Data	Increasing	Insufficient Data
03N21W01P05/8S	Fillmore	180-380 160-260	Decreasing	Decreasing	Relatively Stable	No Clear Trend	Relatively Stable
03N21W12H01S	Fillmore	74-150	Increasing	Relatively Stable	Increasing	Increasing	Relatively Stable
04N19W30D01S	Fillmore	60-380	Increasing	Increasing	Increasing	Increasing	Relatively Stable
04N19W31F01S	Fillmore	60-100	Insufficient Data	Relatively Stable	Relatively Stable	Relatively Stable	Relatively Stable
04N19W33M05S	Fillmore	37-107	Decreasing	Decreasing	Increasing	Relatively Stable	Decreasing
04N20W24E01S	Fillmore	80-500	Insufficient Data	Insufficient Data	Insufficient Data	Relatively Stable	Insufficient Data
04N20W24G01S	Fillmore	100-260	Increasing	Insufficient Data	No Clear Trend	Decreasing	Increasing
04N20W24Q04S	Fillmore	90-300	Increasing	Increasing	Increasing	Increasing	Increasing
04N20W25B01S	Fillmore	50-280	Increasing	Increasing	Increasing	Increasing	Relatively Stable
04N20W25D01S	Fillmore	67-187	Relatively Stable	Relatively Stable	Increasing	Relatively Stable	Insufficient Data
04N20W26G03S	Fillmore	294-374	Decreasing	Relatively Stable	Decreasing	Trend Reversal	Relatively Stable
04N20W33C03S	Fillmore	470-700	Decreasing	Relatively Stable	Increasing	No Clear Trend	Relatively Stable
04N20W36D07S	Fillmore	120-280	Insufficient Data	Decreasing	Increasing	Relatively Stable	Relatively Stable
04N20W36MW104	Fillmore	10-40	Increasing	Increasing	Increasing	Increasing	Increasing
	DWR	Screen,	Long-Term	Long-Term	Long-Term	Long-Term	Long-Term
SWN	Basin	ft bgs	TDS	Sulfate (SO4)	Chloride (CI)	Nitrate (NO3)	Boron (B)
	(2019)	it bgs	Trend	Trend	Tend	Trend	Trend
03N20W03D05S	Fillmore	274-436	Relatively Stable	Insufficient Data	Trend Reversal	Decreasing	Insufficient Data
03N20W03D07S	Fillmore	224-484	Relatively Stable	Relatively Stable	Relatively Stable	Decreasing	Insufficient Data
03N20W05C04S	Fillmore	221-362	Insufficient Data	Insufficient Data	Insufficient Data	Trend Reversal	Insufficient Data
03N20W06N02S	Fillmore	240-350	Relatively Stable	Relatively Stable	Increasing	Decreasing	Relatively Stable
03N21W01P05/8S	Fillmore	180-380 160-260	Insufficient Data	Relatively Stable	Increasing	Increasing	Relatively Stable
04N19W30D01S	Fillmore	60-380	Increasing	Insufficient Data	Increasing	Relatively Stable	Insufficient Data
04N20W25B01S	Fillmore	50-280	Increasing	Increasing	Increasing	Increasing	Insufficient Data
04N20W25D01S	Fillmore	67-187	Relatively Stable	Relatively Stable	Trend Reversal	Decreasing	Insufficient Data

Table 4-3: Fillmore basin groundwater quality Trend Analysis summary.

	DWR		Short-Term	Short-Term	Short-Term	Short-Term	Short-Term
SWN	Basin	Screen,	TDS	Sulfate (SO4)	Chloride (CI)	Nitrate (NO3)	Boron (B)
	(2019)	ft bgs	Trend	Trend	Tend	Trend	Trend
04N18W20M01S	Piru	220-420	Increasing	Increasing	Increasing	Relatively Stable	Relatively Stable
04N18W20M02S	Piru	160-369	Increasing	Relatively Stable	Increasing	Relatively Stable	Increasing
04N18W20M03S	Piru	160-450	Increasing	Increasing	Increasing	Increasing	Increasing
04N18W20P02S	Piru	137-177	Decreasing	Decreasing	No Clear Trend	Relatively Stable	Increasing
04N18W20P04S	Piru	100-140	Decreasing	Decreasing	No Clear Trend	No Clear Trend	Relatively Stable
04N18W20R01S	Piru	190-319	Increasing	Relatively Stable	Trend Reversal	Increasing	Relatively Stable
04N18W27B01S	Piru	156-280	Increasing	Increasing	Increasing	Increasing	Relatively Stable
04N18W27H01S	Piru	40-120	Relatively Stable	Relatively Stable	Insufficient Data	Increasing	Relatively Stable
04N18W29C01S	Piru	356-500	Relatively Stable	Relatively Stable	No Clear Trend	Relatively Stable	Relatively Stable
04N18W29F01S	Piru	110-275	Relatively Stable	Relatively Stable	No Clear Trend	Decreasing	No Clear Trend
04N18W30J045	Piru	79-250	Increasing	Increasing	Increasing	Increasing	Increasing
04N18W31D03S	Piru	590-610	Relatively Stable	Relatively Stable	Increasing	Increasing	Relatively Stable
04N18W31D04S	Piru	310-330	Decreasing	Decreasing	Relatively Stable	Relatively Stable	Decreasing
04N18W31D05S	Piru	220-240	Trend Reversal	Relatively Stable	Increasing	Relatively Stable	Relatively Stable
04N18W31D06S	Piru	140-160	Increasing	Increasing	Increasing	Increasing	Increasing
04N18W31D07S	Piru	50-70	Relatively Stable	Relatively Stable	No Clear Trend	Increasing	Relatively Stable
04N19W25K03S	Piru	400-480	Insufficient Data	Insufficient Data	Insufficient Data	Decreasing	Insufficient Data
04N19W25K04S	Piru	220-370	Relatively Stable				
04N19W25M03S	Piru	210-250	Increasing	Relatively Stable	Increasing	Increasing	Increasing
04N19W26H01S	Piru	568-612	Decreasing	Decreasing	Increasing	Decreasing	Relatively Stable
04N19W26J02S	Piru	Unknown	Insufficient Data	Decreasing	Decreasing	Decreasing	Relatively Stable
04N19W26J03S	Piru	400-650	Decreasing	Relatively Stable	Relatively Stable	Decreasing	Relatively Stable
04N19W26J05S	Piru	200-250	Relatively Stable	Relatively Stable	Relatively Stable	Increasing	Relatively Stable
04N19W33B01S	Piru	206-306	Trend Reversal	Relatively Stable	Trend Reversal	Increasing	Decreasing
04N19W34J04S	Piru	60-160	Relatively Stable	Relatively Stable	Increasing	Increasing	Relatively Stable
04N19W35G01S	Piru	24-79	Relatively Stable	Relatively Stable	No Clear Trend	Relatively Stable	Relatively Stable
04N19W36D01S	Piru	18-73	Increasing	Relatively Stable	Increasing	Increasing	Relatively Stable
	DWR	Screen,	Long-Term	Long-Term	Long-Term	Long-Term	Long-Term
SWN	Basin		TDS	Sulfate (SO4)	Chloride (CI)	Nitrate (NO3)	Boron (B)
	(2019)	ft bgs	Trend	Trend	Tend	Trend	Trend
04N18W20M01S	Piru	220-420	No Clear Trend	Relatively Stable	No Clear Trend	Relatively Stable	Insufficient Data

Table 4-4: Piru basin groundwater quality Trend Analysis summary.

# Fillmore and Piru Basins GSA Check Detail

November 12, 2020

Type	Num	Date	Name	Account	Original Amount
Bill Pmt -Check	11098	11/12/2020	Daniel B Stephens & Associates, Inc.	10000 · Bank of the Sierra	-69,108.11
Bill Pmt -Check	11099	11/12/2020	Olivarez Madruga Lemeiux O'Neill LLP	10000 · Bank of the Sierra	-4,828.60
Bill Pmt -Check	11100	11/12/2020	The Fillmore Gazette	10000 ⋅ Bank of the Sierra	-180.00
				TOTAL	-74,116.71



Item No. 3C Consent Calendar

DATE: November 19, 2020

TO: Board of Directors

**SUBJECT:** Monthly Financial Report

### **SUMMARY**

The Board will receive the monthly financial report for the Fillmore and Piru Basins Groundwater Sustainability Agency (Agency).

#### **BACKGROUND**

UWCD accounting staff has prepared financial reports based on the Agency revenue and expenses for the month of October 2020.

### **FISCAL IMPACT**

None

Attachments: October 31, 2020 P/L Budget Performance

October 31, 2020 Balance Sheet

# Fillmore and Piru Basins GSA Profit & Loss Budget Performance

July through October 2020

	Jul - Oct 20	Annual Budget	Budget
Income			
40001 · Groundwater Extraction Charge	0.00	540,000.00	
41000 · Grant Revenue			
41001 · State Grants	49,206.33	698,246.00	
Total 41000 ⋅ Grant Revenue	49,206.33	698,246.00	
47000 · Other Revenue			
47001 ⋅ Late Fees	0.00	0.00	
47012 · Returned Check Charges	0.00	0.00	
Total 47000 ⋅ Other Revenue	0.00	0.00	
Total Income	49,206.33	1,238,246.00	
Gross Profit	49,206.33	1,238,246.00	
Expense	.0,200.00	.,200,2 .0.00	
52200 · Professional Services			
52240 · Prof Svcs - IT Consulting	0.00	980.00	
52250 · Prof Svcs - Groundwtr/GSP Prep	0.00	000.00	
52251 · Prof Svcs - UWCD GW Services	0.00	50,000.00	
52252 · Prof Svcs - GSP Consultant	151,718.46	350,814.00	43.25%
Total 52250 · Prof Svcs - Groundwtr/GSP Prep	151,718.46	400,814.00	37.85%
52270 · Prof Svcs - Accounting	0.00	10,000.00	0.10070
52275 · Prof Sycs - Admin/Clerk of Bd	0.00	10,000.00	
52280 · Prof Sycs - Executive Director	0.00	40,000.00	
52290 · Prof Sycs - Other	0.00	1,000.00	
Total 52200 · Professional Services	151,718.46	462,794.00	32.78%
52500 · Legal Fees	101,710.40	402,704.00	02.7070
52501 · Legal Counsel	8,116.10	20,000.00	
Total 52500 · Legal Fees	8,116.10	20,000.00	40.58%
53000 · Office Expenses	0,110.10	20,000.00	40.5070
53010 · Public Information	0.00	1,000.00	
53020 · Office Supplies	0.00	500.00	
53026 · Postage & Mailing	0.00	2,000.00	
53040 · Membership Dues	0.00	0.00	
53060 · Computer Software	0.00	0.00	
53110 · Travel & Training	0.00	4,000.00	
Total 53000 · Office Expenses	0.00	7,500.00	
53500 · Insurance	0.00	7,000.00	
53510 · Liability Insurance	0.00	2,500.00	
Total 53500 · Insurance	0.00	2,500.00	
70000 · Interest & Debt Service	0.00	2,300.00	
70120 · Interest & Debt Service	0.00	0.00	
Total 70000 · Interest & Debt Service	0.00	0.00	
70130 · Bank Service Charges	0.00	0.00	
80000 · AR Write-Offs - Bad Debt Exp.	0.00	0.00	
81000 · Capital Expenditures Total Expense	159,834.56	200,000.00	23.07%

10:15 AM 11/06/20 Accrual Basis

# Fillmore and Piru Basins GSA Profit & Loss Budget Performance

July through October 2020

 Jul - Oct 20
 Annual Budget
 Budget

 Net Income
 -110,628.23
 545,452.00
 -20.28%

# Fillmore and Piru Basins GSA Balance Sheet

As of October 31, 2020

	Oct 31, 20
ASSETS	
Current Assets	
Checking/Savings	
10000 · Bank of the Sierra	438,820.53
Total Checking/Savings	438,820.53
Accounts Receivable	
11000 · Accounts Receivable	275,418.27
<b>Total Accounts Receivable</b>	275,418.27
<b>Total Current Assets</b>	714,238.80
TOTAL ASSETS	714,238.80
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
20000 · Accounts Payable	74,116.71
<b>Total Accounts Payable</b>	74,116.71
<b>Total Current Liabilities</b>	74,116.71
Total Liabilities	74,116.71
Equity	
32000 · Retained Earnings	750,750.32
Net Income	-110,628.23
Total Equity	640,122.09
TOTAL LIABILITIES & EQUITY	714,238.80



Item No. 3D Consent Calendar

DATE: November 19, 2020

TO: Board of Directors

**SUBJECT:** Fiscal Year 2019-2020 Budget Report

### **SUMMARY**

The Board will receive the annual financial reports for the Fillmore and Piru Basins Groundwater Sustainability Agency (Agency).

#### **BACKGROUND**

UWCD accounting staff has prepared financial reports based on the Agency revenue and expenses for Fiscal Year 2019-2020.

### **FISCAL IMPACT**

None

Attachments: FY 19-20 P/L Budget Performance - Final

FY 19-20 Balance Sheet - Final

# Fillmore and Piru Basins GSA Profit & Loss Budget Performance

July 2019 through June 2020

	Jul '19 - Jun 20	Annual Budget	Budget
Income			
40001 · Groundwater Extraction Charge	576,936.64	668,964.00	86.24%
41000 · Grant Revenue			
41001 · State Grants	239,354.18	154,485.32	
Total 41000 · Grant Revenue	239,354.18	154,485.32	154.94%
47000 · Other Revenue			
47001 - Late Fees	10,141.38	0.00	
47012 · Returned Check Charges	20.00	0.00	
Total 47000 · Other Revenue	10,161.38	0.00	
Total Income	826,452.20	823,449.32	
Gross Profit	826,452.20	823,449.32	100.36%
Expense			
52200 · Professional Services			
52240 · Prof Svcs - IT Consulting	504.34	980.00	51.46%
52250 · Prof Svcs - Groundwtr/GSP Prep			
52251 · Prof Svcs - UWCD GW Services	129.93	25,800.00	0.50%
52252 · Prof Svcs - GSP Consultant	264,367.05	242,914.00	108.83%
52250 · Prof Svcs - Groundwtr/GSP Prep - Other	0.00	0.00	
Total 52250 · Prof Svcs - Groundwtr/GSP Prep	264,496.98	268,714.00	98.43%
52270 · Prof Svcs - Accounting	21,615.79	10,000.00	216.16%
52275 ⋅ Prof Svcs - Admin/Clerk of Bd	10,461.15	7,000.00	149.45%
52280 ⋅ Prof Svcs - Executive Director	30,271.56	42,000.00	72.08%
52290 ⋅ Prof Svcs - Other	550.00	0.00	
Total 52200 · Professional Services	327,899.82	328,694.00	99.76%
52500 · Legal Fees	,	,	
52501 · Legal Counsel	8,862.50	25,000.00	
Total 52500 · Legal Fees	8,862.50	25,000.00	35.45%
53000 · Office Expenses	0,002.00	20,000.00	00.1070
53010 · Public Information	521.00	1,000.00	52.10%
53020 · Office Supplies	39.56	500.00	7.91%
53026 · Postage & Mailing	1,021.92	2,000.00	51.10%
53040 · Membership Dues	0.00	0.00	01.1070
53060 · Computer Software	0.00	0.00	
53110 · Travel & Training	757.93	4,000.00	18.95%
Total 53000 · Office Expenses	2,340.41	7,500.00	31.21%
53500 · Insurance	_,0 .0	.,000.00	0.12.70
53510 · Liability Insurance	2,115.73	2,500.00	
Total 53500 · Insurance	2,115.73	2,500.00	84.63%
70000 · Interest & Debt Service	2,110.70	2,000.00	04.0070
70120 · Interest Expense	0.00	0.00	
Total 70000 · Interest & Debt Service	0.00	0.00	
70130 · Bank Service Charges	20.00	0.00	
80000 · AR Write-Offs - Bad Debt Exp.	0.00	0.00	
81000 · Capital Expenditures  Total Expense		100,000.00	72 500/
	341,238.46	463,694.00	73.59%

# Fillmore and Piru Basins GSA Balance Sheet

As of June 30, 2020

	Jun 30, 20
ASSETS	
<b>Current Assets</b>	
Checking/Savings	
10000 · Bank of the Sierra	324,809.85
Total Checking/Savings	324,809.85
Accounts Receivable	
11000 · Accounts Receivable	473,694.08
<b>Total Accounts Receivable</b>	473,694.08
Total Current Assets	798,503.93
TOTAL ASSETS	798,503.93
LIABILITIES & EQUITY	
Liabilities	
<b>Current Liabilities</b>	
Accounts Payable	
20000 · Accounts Payable	47,573.61
<b>Total Accounts Payable</b>	47,573.61
<b>Total Current Liabilities</b>	47,573.61
Total Liabilities	47,573.61
Equity	
32000 · Retained Earnings	265,536.58
Net Income	485,213.74
Total Equity	750,750.32
TOTAL LIABILITIES & EQUITY	798,323.93



Item No. 4.A Motion Item

DATE: November 12, 2020 (for November 17, 2020 meeting)

TO: Board of Directors

FROM: Anthony Emmert, Executive Director

**SUBJECT:** Sustainable Management Criteria

#### **SUMMARY:**

The Agency formed a Sustainable Management Criteria Ad Hoc Committee to develop a "Straw Man" set of Sustainability Goals and Undesirable Results, to provide a starting point for discussions with stakeholders. After significant effort, the Ad Hoc Committee recommended that the Sustainability Goals and Undesirable Results would be better developed by the whole Board and requested that the Daniel B. Stephens & Associates team develop the "Straw Man" proposal. The Board agreed and held a single-purpose special Board meeting to discuss and receive comments on the initial Sustainability Goals and Undesirable Results. The Agency also posted several technical documents on its website that can be referenced by stakeholders to inform their comments regarding Sustainable Management Criteria. Representatives from Daniel B. Stephens & Associates will provide the Board with a report on progress made on development of the Agency's "Straw Man" Draft Sustainable Groundwater Management Criteria, after receiving input during the special board meeting.

#### **RECCOMENDATION:**

The Board will receive a report from a representative of Daniel B. Stephens & Associates on the development of the Agency's Draft Sustainable Groundwater Management Criteria and provide comments and recommendations.

#### **BACKGROUND**

The Agency's Sustainable Management Criteria Ad Hoc Committee, assisted by staff from Daniel B. Stephens and Associates (DBS&A), worked diligently for several weeks toward development of a draft set of Sustainable Management Criteria (SMC), or "Straw Man" SMC, to present to the Board and stakeholders for consideration. The effort focused primarily on the development of draft Sustainability Goals and Undesirable Results. Progress was slow and the Ad Hoc Committee recommended that the effort would be more effective if the whole Agency Board worked through the SMC development. On October 13, 2020, the Agency received a letter from the Fillmore Basin Pumpers Association and the Piru Basin Pumpers Association recommending a more public SMC development process, confirming the recommendation of the Committee.

On October 1, 2020, the Agency held a workshop to provide information on the SMC development process and to receive comments and questions from stakeholders regarding Sustainability Goals and Undesirable Results. At its October 15, 2020 meeting, the Board agreed

Sustainable Management Criteria November 19, 2020 Page 2

1<sup>st</sup>: Director

Voice/Roll call vote: Director Holmgren

Director Meneghin

that the SMC development process needs to be a focus of the whole board and stakeholders and scheduled a special board meeting to further the process, and scheduled a special meeting for November 4, 2020. At the November 4, 2020 special meeting, the DBS&A team provided a presentation on the "Straw Man" SMC. The Board and stakeholders provided feedback to the DBS&A team regarding the Undesirable Results and Sustainability Goals, and recommended that staff and DBS&A revise the groundwater sustainability planning schedule to lengthen the time that the Board and stakeholders can develop the SMC in a public process.

To provide background information on the basin conditions on which stakeholders can provide their comments, the Agency has posted several technical documents on its website, under the "Resources" drop-down menu, under "Technical Data." Reports include those regarding groundwater conditions, groundwater management, water quality, historical ecology, and riparian vegetation mapping. Agency staff and consultants are also working to complete and post various technical memoranda that stakeholders may also wish to reference when forming their comments on the Sustainability Goals and Undesirable Results. Additionally, the Agency posted several technical memoranda on its website, under the "GSP" drop-down menu. Technical memoranda include past groundwater models and water budgets, groundwater monitoring program and data gaps analysis, and monitoring protocols and standard methods.

For the Agency to maintain its groundwater sustainability planning schedule and produce Sustainable Groundwater Management Act (SGMA) compliant groundwater sustainability plans by December 2021, the Agency must finalize its draft SMCs in the very near future. Agency consultants and staff will use these draft SMC's to conduct forward-looking modeling, as required by SGMA. If the Agency develops its draft SMC's soon, there may be time amend the SMCs following the first round of forward-looking modeling. The DBS&A team is working to incorporate direction and comments received from the Board and stakeholders into the Draft SMC. To allow more time to develop the Draft SMC, the team has modified the overall project schedule.

9	chedule.
FISCAL II	МРАСТ
ı	None.
<u>ATTACH</u>	MENTS
1	None.
Propose	d Motion:

2<sup>nd</sup>: Director

Director Long:

**Director Pace** 

Director McFadden

Director Kimball:



Item No. 4.B Motion Item

DATE: November 12, 2020 (for November 17, 2020 meeting)

TO: Board of Directors

FROM: Anthony Emmert, Executive Director

**SUBJECT:** Monitoring Wells Project

#### **SUMMARY:**

The Agency's work plan includes the siting and construction of additional monitoring wells to fill recognized gaps in data that will be needed by the Agency to evaluate its progress toward basins sustainability and to inform future updates of its groundwater sustainability plans. The monitoring wells are a significant scope item in the Agency's \$1.5 million grant from the California Department of Water Resources. Staff and consultants have developed a prioritized list of monitoring wells locations and project approach for consideration by the Board.

#### **RECCOMENDATION:**

The Board will receive a report from staff and a representative of Daniel B. Stephens & Associates on the Monitoring Wells Project and provide comments and recommendations.

#### **BACKGROUND**

The siting and construction of additional monitoring wells is included in the Agency's planned scope of work, in order to fill recognized gaps in data that will be needed by the Agency to evaluate its progress toward basins sustainability and to inform future updates of its groundwater sustainability plans (GSPs). The monitoring wells are also a significant scope item in the Agency's \$1.5 million groundwater sustainability planning grant from the California Department of Water Resources. The current Agency work plan and budget anticipates siting these wells, securing the property access easements, performing preliminary design, and procuring a well drilling contractor before the end of June 2021, and then constructing the wells during the first quarter of the next fiscal year.

The Board has previously heard presentations on data gaps and the Monitoring Wells Project, including potential construction of two multiple completion (nested) wells near the basins boundaries (Piru-Fillmore, and Fillmore-Santa Paula), and an alternative approach of construction of several shallower monitoring wells in lieu of one of the nested wells. The Agency's staff and consultant team has prepared a prioritized list of monitoring wells locations and project approach for consideration by the Board.

#### **FISCAL IMPACT**

None.

Monitoring Wells Project November 19, 2020 Page 2

<b>ATT</b>	AC	HM	IEN	TS
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None.

Proposed Motion	:			
1 <sup>st</sup> : Director		2 <sup>nd</sup> : Director _		
	Director Holmgren:	Director Kimball:	Director Long:	Director McFadder
	Director Meneghin	Director Pace:		