



**Board of Directors Meeting**  
**September 27, 2019**  
**City Council Chambers, Fillmore City Hall**  
**250 Central Avenue, Fillmore, CA 93015**

**MINUTES**

**Directors Present**

Director Kelly Long, Chair  
Director Ed McFadden, Vice Chair/Secretary/Treasurer  
Director Lynn Edmonds (arrived at 4:18pm)  
Director Gordon Kimball  
Director Glen Pace  
Director Candice Meneghin

**Staff Present**

Anthony Emmert, executive director  
Wayne Lemieux, legal counsel  
Kris Sofley, clerk of the board

**Public Present**

Dan Detmer, UWCD  
Dr. Zachary Hanson, UWCD  
Tim Moore, DBS&A  
George Reid

**1. Call to Order – First Open Session**

Chair Long called the meeting to order at 4:02p.m.

**2. Pledge of Allegiance**

Chair Long asked everyone to join her in reciting the Pledge of Allegiance

**3. Directors Roll Call**

Chair Long instructed the Clerk of the Board to take roll. Chair Long, Vice Chair McFadden, Director Gordon Kimball, Director Candace Meneghin, Director Glen Pace were all present. Director Lynn Edmonds was not present at the time of roll call but arrived to the meeting later at 4:18 and apologized to the room for her late arrival.

**4. Public Comments**

Chair Long, in accordance with Government Code § 54954.3(b)(1), asked if there were any public comments. None were offered

**5. Approval of Agenda  
Motion**

Motion to approve the agenda, Vice Chair McFadden; Second, Director Pace. Voice vote: five ayes (Kimball, Long, McFadden, Meneghin, Pace); none opposed; one absent (Edmonds).

**6. Director Announcements/Board Communications  
Information Item**

Chair Long asked the Directors if they had participated in any activities that were of interest to the GSA. Vice Chair McFadden stated that he had participated in the ad hoc stakeholder communication and engagement committee meeting during which time the committee worked on drafting guiding principles for the GSA which would be presented to the Board for input at a later date.

Chair Long asked if there were any other updates from Directors. Director Kimball reported that the Fillmore and Piru Pumpers Associations had held a joint Board meeting and while there was no action to report from the meeting, there was a general interest among the pumpers as to when the GSA would have something for the pumpers to look at regarding the Groundwater Sustainability Plans.

**7. Executive Director Update  
Information Item**

Executive Director Emmert reported that the second ad hoc stakeholder engagement meeting was held and that the committee's primary effort was in the development of a comprehensive stakeholder list. Chair Long provided a contact list that provided a substantial foundation from which to build upon. The committee is also working on drafting Guiding Principles for the Board's adoption. He believes that the committee will have finished product for the Board's review at its next meeting and, after the Board adopts the work plan, the public workshops will begin.

Mr. Emmert reported that groundwater billing for the January through June 2019 period has gone out and that the auditors are working on auditing the past two year's financial records.

UWCD staff continue to follow up with new GSA customers; Dan Detmer and Zachary Hanson will be providing a groundwater model update under item 11A and there will also be a groundwater sustainability plan update from Tim Moore of DBS&A as Tony Morgan couldn't be at the meeting today.

Chair Long asked Mr. Emmert to include Director Meneghin on the ad hoc stakeholder engagement committee as she'd like to join in for public comment. Mr. Emmert said he would add her to the agenda distribution for the committee's next meeting.

**8. Legal Counsel Update**  
**Information Item**

Mr. Wayne Lemieux addressed the Board, reporting that he was sitting for Steve O'Neil and had nothing to report regarding legal issues or concerns.

**9. Groundwater Sustainability Plans Development Update**  
**Information Item**

Tim Moore, representing Daniel B. Stephens and Associates, reported that the ad hoc stakeholder committee members have all accepted their assignments and then addressed the Draft GSP Preparation Timeline with Major Milestones paper (see attached) that he had provided to the Directors. Mr. Moore walked the Board through the various benchmarks and projected completion dates that will culminate with the Board's submission of the Fillmore and Piru basins Groundwater Sustainability Plans before the January 31, 2022 deadline. He also stated that DBS&A plans to produce the final draft for Board review in early December, 2021. He added that uploading the GSP to the SGMA portal is an arduous process, so they want to add some time to deal with potential challenges. Mr. Moore asked if the Board had any questions.

Director McFadden asked if the slow portal was due to the fact that everyone is doing the same thing when submitting data. Mr. Moore said from start to finish it takes about a week, and said that when everyone was uploading Basin Boundary Modifications earlier in the year, the system crashed.

Chair Long suggested that the consultants send a copy of the final draft GSPs to Eddie Pech directly to let him know the plans are being submitted, just in case there are problems. Mr. Moore said the Board would also need to sign a resolution approving the GSPs prior to being submitted.

Director Pace questioned the timeline as he thought it seemed like the GSA was waiting until the 11<sup>th</sup> hour to share it with the public and that seems problematic. He said he didn't want any surprises and would prefer to release each segment of the GSPs for public

comment and feedback as it is prepared or drafted. He said that he thought it would be better to provide answers along the way instead of waiting until the entire plan was completed.

Mr. Moore said that was a great question, and explained that the timeline highlights the major milestones but that technical memorandums and correspondence will be delivered for each “chapter” of the GSP and Tony Morgan will develop appendices to the GSPs as well as an executive summary of all of the data presented in the GSPs, which will make it easier. Chair Long asked if it would be better to release those as they are drafted. Vice Chair McFadden pointed out that technical memos are released after December 2020. Mr. Moore added that the first draft of the sampling analysis technical memo will be delivered in April 2020. Director Pace asked if there was a concept and Mr. Moore responded that it is already established and the data network is already fairly robust, and while there are data gaps, they are working on explanations for how to fill those data gaps. Director Pace stated that the draft groundwater model is available in May 2020, and sustainable management criteria (SMC) is to be adopted in October. Is there somewhere where all this history lives as there is 90 years of data and the basins have been general sustainable. He asked if we can determine problems and report them out as generally, pumpers think we’re all good and this GSP is just a formality.

Chair Long asked about the water budget in November. Mr. Moore said that the budget is based on sustainable management scenarios, written and then run through the model, and factoring in things like climate change, all to establish a minimum threshold. Chair Long then asked about the deadline for the SMC and Mr. Moore responded that the UWCD groundwater model will be able to have that information by October 2020.

Director Meneghin asked how these milestones track against the agency’s grant milestones. Mr. Moore reported that the GSP development milestones are holding pace with the grant and that DBS&A is tracking all that information.

Director Kimball asked if the administrative draft of the GSPs are for the Board’s review only, or will they be made available to the public. Mr. Moore said that the administrative draft will be provided to the Board, UWCD and consultants, but that he wasn’t sure if it was to be made available to the public. There was some discussion about reviewing it in closed session, but Ms. Sofley said that the draft GSPs do not meet the criteria for closed session discussions. Director Kimball asked if the public could be advised that the draft is not for comment and Director Pace suggested public could comment directly to the Board members and then have a later “official” public comment period. Director Kimball agreed and called it a soft release. Chair Long suggested watermarking DRAFT on the document and reminded everyone that the Board needs to be transparent.

Director Kimball suggested that the concept of the technical memos was to keep the Board informed but not put out for public comment. He said that as the Agency gets somewhere, it should share that information with stakeholders so that they get comfortable with the process and share comments in a timely manner. Chair Long added that the public can comment on agenda items.

Mr. Moore said that on the issue of subsidence, the information is available to the public and data should be taken care of quickly. Stillwater Science is updating moving forward with shallow water level data, comparing that to groundwater dependent ecosystem information and the methodology for analyzing vegetation. Director McFadden added that two years seems like a long time.

## **10. CONSENT CALENDAR**

Motion to approve the items on the Consent Calendar, Vice Chair McFadden; Second Director Kimball. Voice Vote: six ayes (Edmonds, Kimball, Long, McFadden, Meneghin, Pace), none opposed. Motion carries 6/0/0.

### **10A Approval of Minutes**

The Board will consider approving the Minutes from the Board Meeting of July 18, 2019.

### **10B Approval of Warrants**

The Board will consider approving the following invoices for payment this month:

Daniel B Stevens & Associates	\$10,623.04	GSP consultant Jun-Jul
Daniel B Stevens & Associates	3,577.60	GSP consultant Aug
Fillmore Gazette	216.00	Budget/Rate Setting Notice
Olivarez Madruga Lemieux O'Neill	1,444.50	Legal services Jul
Olivarez Madruga Lemieux O'Neill	74.00	Legal services Aug
Daniel B. Stevens & Associates	2,742.10	GSP Consultant Aug-Sep
UWCD Quarterly Invoice	14,235.49	Admin/Financial/Grant

### **10C Monthly Financial Report**

The Board will receive an updated cash position for the Agency from United Water Conservation District's (UWCD) accounting staff.

## 11. INFORMATIONAL ITEMS

### 11A Groundwater Model Progress Presentation

#### Informational Item

UWCD's Supervising Hydrogeologist Dan Detmer and Assistant Hydrogeologist Dr. Zachary Hanson provided a presentation (see attached) on the District's progress in expanding its regional groundwater model to the Fillmore and Piru basins. Dr. Hanson explained that as the model is set up, it will be calibrated to ensure it aligns with historical data, and the time periods and data are correct. Director Meneghin asked about the number of major storm events during the 31-year period of data that will be used for the model. Dr. Hanson said there were a few major storms and then Mr. Detmer added that the model will represent both wet and dry years and extreme events. Director Meneghin said she just wanted to make sure that enough data is included and Mr. Detmer assured her that groundwater production and pumping records go back to 1985, which is very helpful for model calibration purposes. Mr. Detmer also stated that USGS gauges have provided over a century of data and that UWCD staff have collected some 500 flow measurements from points along the river. UWCD staff also started using pressure transducers since 2007, which have resulted in 23,000 records of water level elevations. He added that there is lots of data to help in building the model and Dr. Sun and UWCD staff expect to be test driving it soon.

Mr. Detmer went on to say that mapping of aquifers will tell which wells produce water from which aquifer; sources of information include existing well logs, geophysical logs, the lithology and well construction information, water levels and well production data, and more, all of which can help define the framework or architecture of the groundwater flow model. He then asked if the Board had any questions.

Chair Long commented that the model incorporates a great deal of data and it will be interesting to see the various scenarios as they are run. Mr. Detmer said he's looking at late spring for model completion and if it doesn't make that deadline it's on UWCD, not on DBS&A. Chair Long requested that Mr. Detmer correct the directional legends on some of the cross sections presented, then asked the clerk to post the corrected presentation on the Agency's website. Mr. Detmer said the UWCD staff are making progress and want to keep the Board up to date. He added that staff have been through this with Fox Canyon GMA and thinks it's best to bring everyone along as they go, with workshops and as calibrations are tested as the Agency needs the tool to be accepted by technical reviewers and the public.

Chair Long agreed saying that it is important to keep everyone -- the stakeholders, pumpers, environmental groups and the Board -- involved in the process because there is so much data. Mr. Detmer proposed a two-hour workshop to properly present a demonstration of how the model works and Director Kimball suggested inviting everyone and getting feedback.

Director Pace asked Mr. Detmer about his experiences when presenting this to the public. He added that he is an engineer and wants to make sure it operates well and how it is calibrated and see it to the end. Mr. Detmer explained that the model was developed prior to SGMA, when Tony Morgan was at the District and thought staff needed a better tool. Staff finished it for the GMA to use and three groundwater experts have confirmed that it's a good model, including Fox Canyon GMA's consultant who is a professor at Stanford.

Director Pace said that the validation period is good, the historical data shows how water levels have changed and by developing scenarios for alternative situations, the model will show what would happen going forward. Mr. Detmer said using real data the model did simulate what had actually happened and that by working on Santa Paula, Fillmore and Piru together, UWCD will have a fully capable model all the way to the coast.

Director Meneghin asked if Fox Canyon GMA did an independent evaluation. Mr. Detmer said its consultant had. Vice Chair McFadden said the proofing period should be made public, too. Chair Long agreed, saying that the directors and stakeholders should all be engaged. Mr. Detmer added that may be in late spring.

Director Pace suggested a peer review group may make some recommendations or suggestions and that it is good validation to prove the model by involving respected people to test and validate. Then he asked if the Board should hire an expert to validate the model independent from UWCD and DBS&A. He said that the whole experience will be valuable for communication and keeping the public engaged so they fully understand how extensive this process is. Mr. Detmer said it took longer than expected because staff wanted to get it right. Chair Long thanked him for sharing the lessons learned and said that she appreciates all the time and effort.

## 12. MOTION ITEMS

### 12A Resolution 2019- 05 Modifying Agency Bylaws – Disbursement Approval Procedures Motion

Chair Long asked why the Board was considering Resolution 2019-05 modifying the Agency's disbursement approval procedures contained in Section 7.1 of the Agency's Bylaws. Mr. Emmert explained that when the August meeting was canceled, for example, invoices could be paid and by the time of the next meeting, some of the invoices were already late. He said this is a potential mechanism for addressing timely payment of invoices even when the Board doesn't have a meeting. It also prevents the need for a full Board meeting just to pay bills. He added that the Mound Basin GSA recently adopted a similar resolution for the same purpose. He said that staff recommends a process that doesn't set a cap on expenditure, but one could be inserted if the Board prefers to come back to this item. The process proposed by staff provides for two Board members to pay routine bills, up to \$12,000 per month.

Chair Long suggested amending the Resolution to go up to \$20,000. Mr. Lemieux asked how much money the Agency typically has in the bank. Vice Chair McFadden said about \$160,000. Mr. Emmert said he would advise setting a cap. Chair Long suggested disbursements up to \$20,000 approved by the Treasurer and Chair.

Mr. Emmert said that most invoices are net 30 days and if the Board isn't meeting on a monthly basis and there is no alternative way to pay the bills between meetings, the Agency could incur penalties and or interest on outstanding invoices.

Motion to adopt Resolution 2019-05, amending Section 7.1 of the Agency's Bylaws, and authorizing the Board Chair and Vice Chair/Treasurer to approve disbursements in between Board meetings up to \$20,000 per expenditure and to require the Executive Director to review disbursements prior to Board approval, Vice Chair McFadden; Second, Director Meneghin. Roll call vote: six ayes (Edmonds, Kimball, Long, McFadden, Meneghin, Pace); none opposed. Motion carries unanimously 6/0/0.

## 13. FUTURE TOPICS FOR BOARD DISCUSSION

Suggested future topics for Board discussion include a motion item to add Director Meneghin to the ad hoc committee; feedback from the ad hoc committee and agreement among the Board as to whether the committee should be made a standing committee, and



if committee membership should be limited to three members, as four expressed interest in being involved with the Stakeholder Engagement ad hoc committee.

**ADJOURNMENT 5:31p.m.**

Chair Long adjourned the meeting at 5:31p.m. to the next Regular Board Meeting on Thursday, October 17, 2019 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 September 27, 2019.

ATTEST: \_\_\_\_\_

  
Kris Sofley, Clerk of the Board



**Fillmore and Piru Basins**  
Groundwater Sustainability Agency

## BOARD MEETING & PUBLIC HEARING

September 27, 2019 @ 4:00pm

City Council Chambers, Fillmore City Hall

250 Central Avenue, Fillmore, CA 93015

Name: Zach Hanson

Organization: United water

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Name: De. Delmer

Organization: UWCD

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Name: Tim Moore

Organization: DBS & A

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Name: C. Reed

Organization: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Name: \_\_\_\_\_

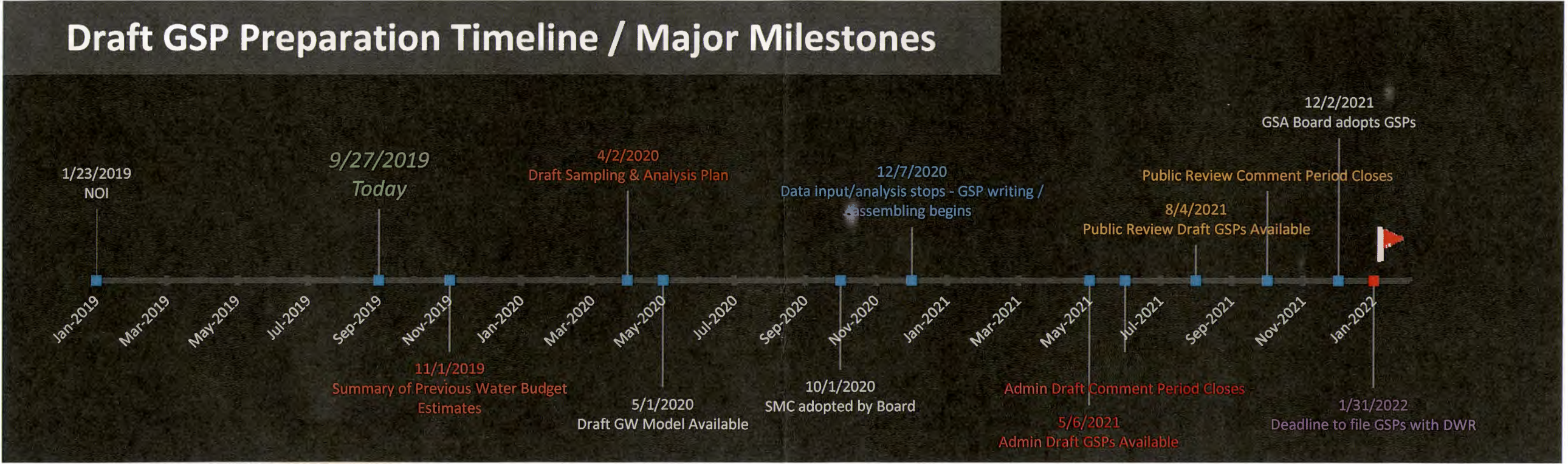
Organization: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_



# Draft GSP Preparation Timeline / Major Milestones

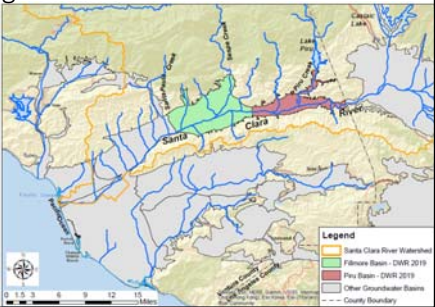


# Fillmore and Piru Basins: Groundwater Model Progress

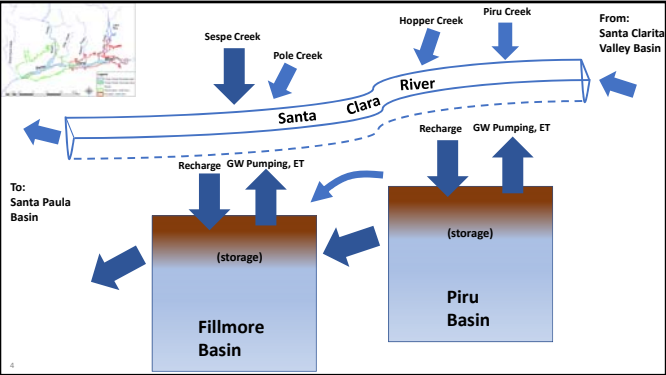
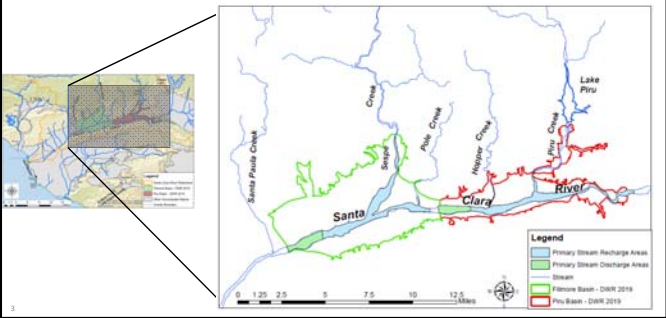
Zach Hanson, PhD, Assistant Hydrogeologist, United Water  
Dan Detmer, PG, CHG, Supervising Hydrogeologist, United Water

Fillmore and Piru Basins GSA Board of Directors Meeting  
Friday, September 27, 2019

## Regional Setting

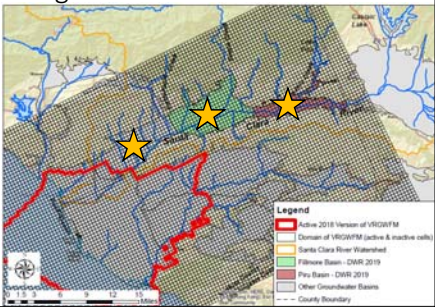


## Fillmore & Piru Basins



## Numerical Modeling

- Extension of coastal plain model (2018)
  - Dr. Jason Sun
- Modeling Period
  - 1985 – 2015
- Validation Period
  - 2016 – 2019

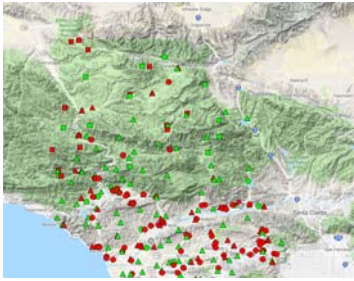


## Model Inputs



### Model Inputs - Precipitation

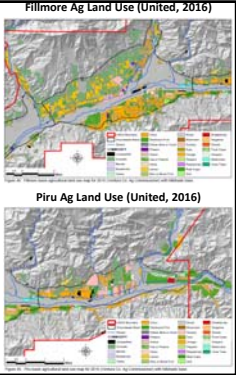
- Precipitation Gages
  - Ventura County
  - Los Angeles County
  - US Geological Survey
  - United Water
  - Research database products



Ventura County Precipitation Gage Network

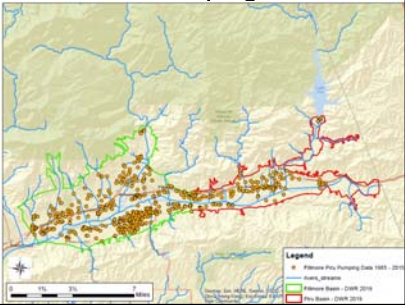
### Model Inputs - Recharge

- Groundwater Recharge to Aquifers
  - Precipitation (minus Evapotranspiration)
  - Return flows



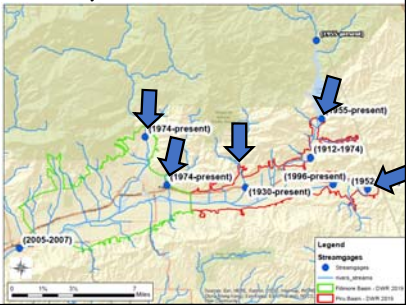
### Model Inputs – Groundwater Pumping

- ~500 wells with records
  - 1985 - 2015



### Model Inputs – Boundary inflows

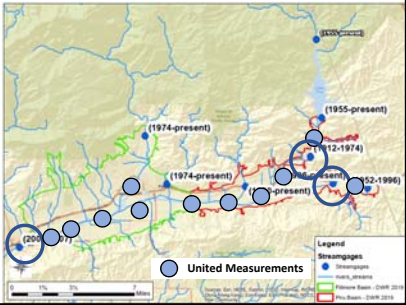
- Streamflow gaging sites
  - 9 USGS and Ventura County gages
  - Daily average discharge
  - Decades of data
- Mountain Front Recharge



### Model Development

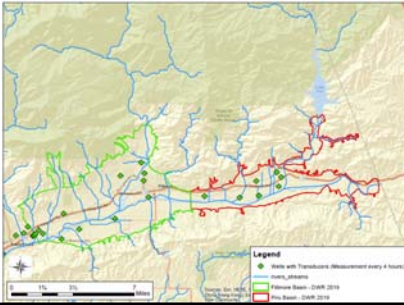
### Model Development - Streamflow

- Streamflow gaging sites
- Percolation rates within stream channel
- United measurements
  - 500 + along Santa Clara River and tributaries
  - Majority 1999 - present



Model Development – Groundwater Levels

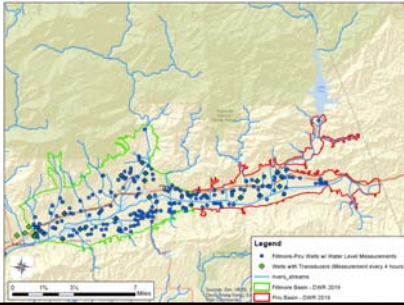
- Pressure Transducers
  - 4-hour intervals
  - 23 wells
  - 260,000+ records



33

Model Development – Groundwater Levels

- Pressure Transducers
  - 4-hour intervals
  - 23 wells
  - 260,000+ records
- Water Level Elevations
  - Single measurements
  - 254 wells
  - 23,000+ records



34

Model Inputs (continued)

35

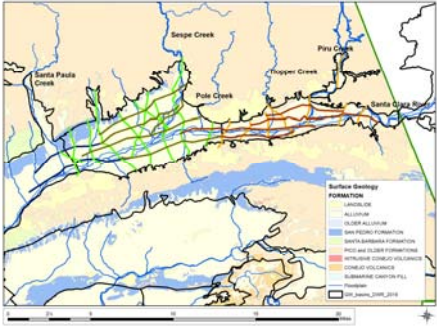
Mapping of Hydrostratigraphic Units

- United staff also needed to map subsurface hydrostratigraphic units (aquifers)
- Used information from existing water and oil wells
  - Geophysical well logs
  - Description of lithology (sand, cobbles, silt, clay)
  - Well construction information (screened zones)
  - Other information (water levels, well production)

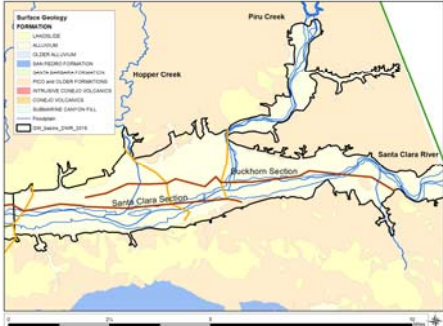
This mapping of units forms the framework/architecture of the groundwater flow model

36

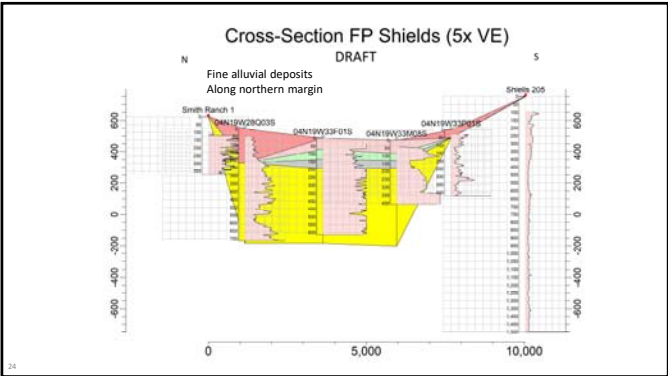
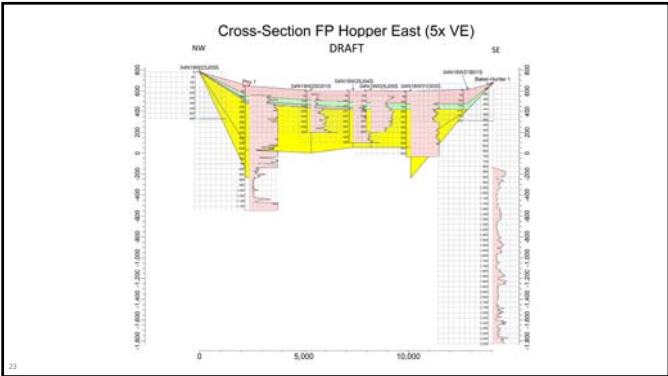
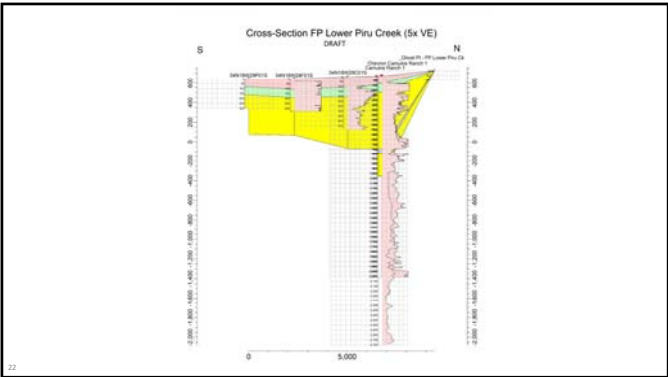
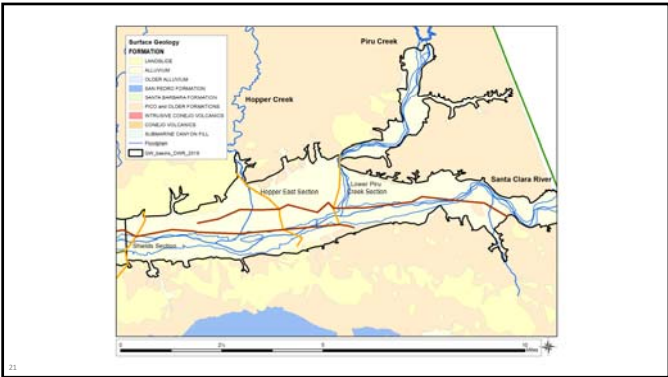
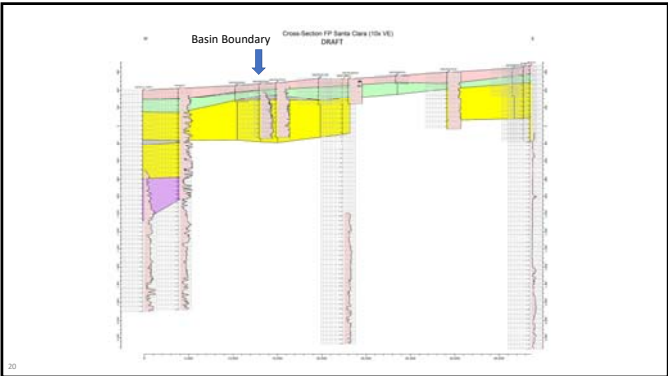
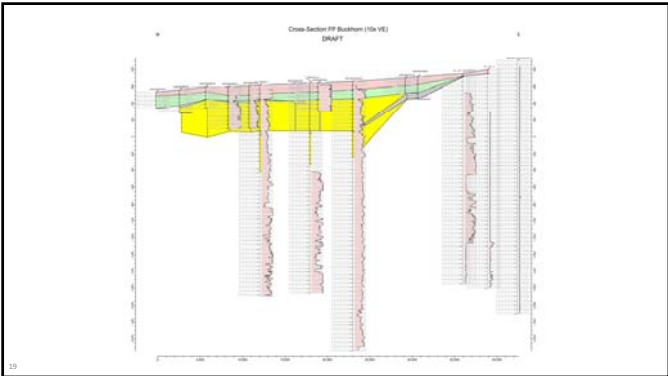
Section lines in the Piru and Fillmore basins

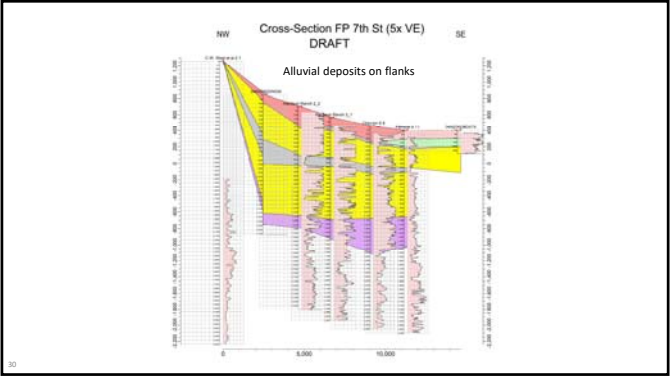
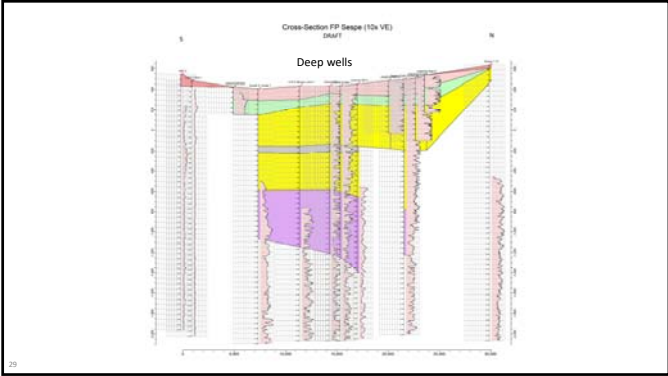
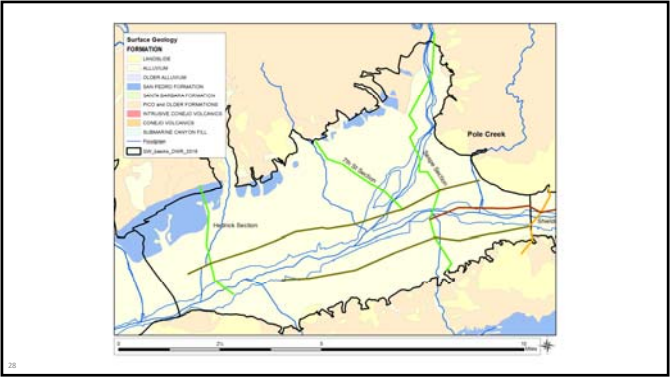
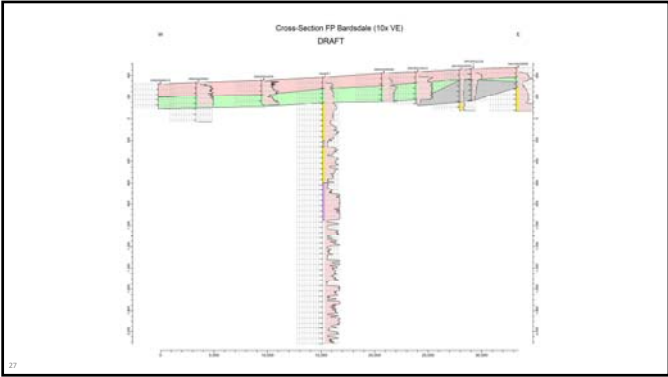
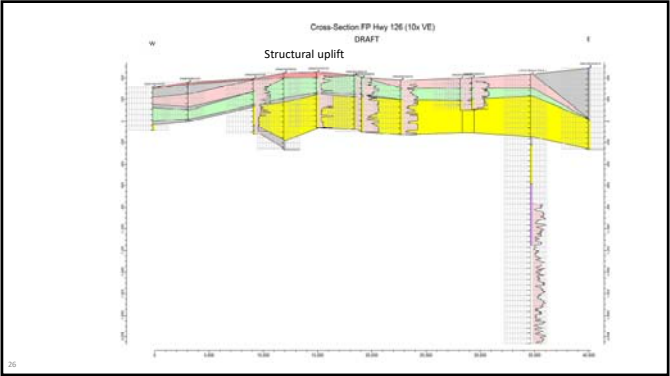
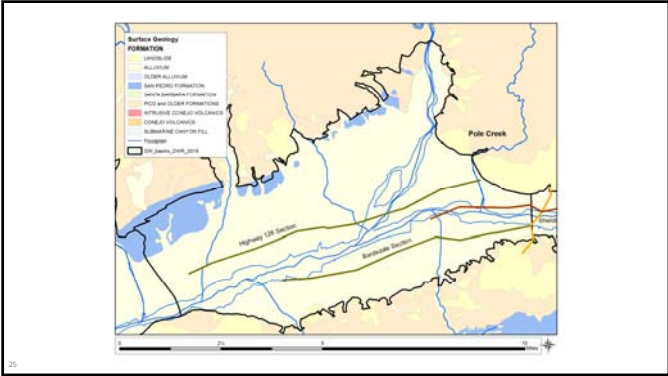


37

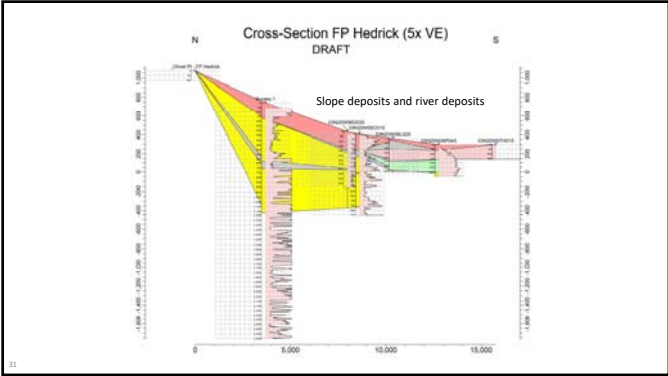


38









Questions?

32