

Water Resources Association of Yolo County
Technical Committee (TC) – March 3, 2016, 8:30 – 10:30 am
Yolo County Flood Control & WCD, 34274 State Hwy. 16, Woodland

Committee Members:

Elisa Sabatini, Yolo County, TC Chair	Tim O'Halloran, YCFC&WCD
Carol Scianna, City of Winters	Kristin Sicke, YCFC&WCD
Barrett Kaasa, CA DWR	Tim Busch, City of Woodland
Bryan Busch, RD 108	Donita Hendrix, Dunnigan Water District
Jordan Power, City of Woodland	Jeanette Wrynski, Yolo County RCD
Donna Gentile, WRA	Max Stevenson, YCFC&WCD

Other Attendees:

Esther Conrad, Stanford University	Jan Martinez, Stanford University
Tara Moran, Stanford University	Jesse Crews, Stanford University
John McKean	Dave Pratt
Mary Fahey, Colusa County	

Member Agencies Absent:

RD 2035	City of Davis
City of West Sacramento	University of CA Davis

1. **CALL TO ORDER** at 8:30 am by Elisa Sabatini.
2. **APPROVAL AGENDA & Adding Items to Posted Agenda:** Agenda was approved as presented
3. **APPROVE MEETING MINUTES:** Previous meeting minutes were emailed to the TC for review with today's agenda. Comments on the draft 2/4/16 minutes are due by 3/4/16.
4. **PUBLIC COMMENT:** There were a few new attendees, so introductions were in order.
5. **CALIFORNIA DEPT. OF WATER RESOURCES (DWR) Update:** Barrett Kaasa, DWR, gave updates on the following items. Contact info: barrett.kaasa@water.ca.gov, (530) 376-9618
Sustainable Groundwater Management Program
Website <http://www.water.ca.gov/groundwater/sgm/index.cfm>
 - Draft GSP Emergency Regulations were released on February 18, 2016.
 - o Draft GSP Emergency Regulations and Guide available online: <http://www.water.ca.gov/groundwater/sgm/gsp.cfm>
 - o GRA Webcast on March 15, 2016: http://grac.org/event/er_regform.asp?eid=483
 - o DWR Online Webinar on Thursday March 24, 2016: <https://attendee.gotowebinar.com/register/2515354223176908292>
 - o DWR will host 3 public meetings. The Sacramento meeting will be on Friday March 25, 2016. More Information: http://www.water.ca.gov/groundwater/sgm/pdfs/HowToComment_GSPRegMtgs.pdf
 - o Public comment period ends on March 25, 2016
 - Basin Boundary Modification Request deadline – March 31, 2016
 - Water Available for Groundwater Replenishment Report:
 - o Draft White Paper describing concepts, implementation challenges, uncertainties, and proposed technical approach will be shared with the public in the coming weeks.
 - o Draft report will be released in September 2016.

DWR Prop 1 Funding

- DWR IRWM Grant Program
 - o Draft IRWM Grant Guidelines and Planning Grant PSP available online.
 - \$37 million available for Sacramento River funding area.

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- <http://www.water.ca.gov/irwm/grants/prop1index.cfm>
- Up to \$1 million for new IRWM plan per region. Up to \$250k to update plan. 50% cost share.
- Public comment deadline – April 8, 2016.
- Final Planning PSP available – April 2016.
- Draft RFP DAC Involvement
 - http://www.water.ca.gov/irwm/grants/docs/p1DACinvolvement/2016Prop1IRWM_DACI_RFP_PublicReviewDraft.pdf
 - Comments due April 8, 2016: http://www.water.ca.gov/irwm/grants/p1_guidelines.cfm
 - \$3.7 million available for Sacramento River Funding Area to develop DAC Involvement proposal that ensures the involvement of DACs in the IRWM planning efforts. No cost share.
 - Proposal must come from one applicant representing all DACs and Regional Water Management Groups within the “Funding Area” (Sacramento River)
 - Final DAC Involvement RFP available – April 2016
- DWR Agricultural Water Use Efficiency Grants
 - \$30 million in funding available. Up to 3 million per project for implementation, 300k for planning/other.
 - Final Guidelines and PSP available online:
<http://www.water.ca.gov/wuegrants/SolicitationsProp1AG.cfm>
 - Proposals due March 30, 2016.
 - Contact: Fethi Benjema 916.651.7025; WUEGrants@water.ca.gov
- DWR AWMP 2015 Grants Program – Mid Sized Ag Water Suppliers
 - Up to \$50k for new AWMPs for water suppliers covering 10k to 25k acres of irrigated lands (10k for updating existing plans).
 - No cost share!
 - <http://www.water.ca.gov/wuegrants/Prop50AWM.cfm>
 - Applications due May 31, 2016. Funding available on first-come, first-served basis.
- CalConserve 2015 Water Use Efficiency Revolving Fund Loan Program
 - \$10 million available in low-to-no interest loans.
 - Funding can be used by local agencies to provide water efficiency upgrades to residents at no upfront costs. Local agencies will provide low-interest loans to customers to finance the installation of onsite improvements, such as water-efficient appliances, and fixtures, or repairs to cracked or leaky pipes.
 - <http://www.water.ca.gov/wuegrants/CalConserve.cfm>

Miscellaneous

- 2016 CA Water Board Data Fair
 - March 28, 2016, 10am to 3pm, Klamath Room, CalEPA Building:
http://www.waterboards.ca.gov/resources/data_databases/docs/wb_datafair_flyer.pdf
 - Data Fair will promote datasets available through the Water Board, including information on regulated facilities, water rights, surface water quality, and groundwater quality.
- Water Board Prop 1 Funding
 - 800 million in funding available for contaminated groundwater used for drinking water supplies. Contamination can include natural contaminants.
 - Groundwater Grant Draft Guidelines released:
http://www.waterboards.ca.gov/water_issues/programs/grants_loans/proposition1/docs/groundwater_grant_program_public_draft_guidelines.pdf

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- Public workshop Friday March 25, 2016, 10am to 1pm, CVRWQB, 11020 Sun Center Drive, Suite 200, Rancho Cordova, CA.
- http://www.waterboards.ca.gov/water_issues/programs/grants_loans/proposition1/groundwater_sustainability.shtml
- 50% cost share
- Planning: \$100k to 1 million per project
- Implementation: \$500k minimum, no project maximum
- DWR Conaway Ranch Extensometer
 - The extensometer and multi-completion monitoring well will have live subsidence and water level data on CDEC by April.

6. FUNDING UPDATES:

- There will be a California Funding Fair on April 13th in Sacramento:
http://www.cfcc.ca.gov/funding_fairs.htm
- Yolo County submitted a \$500,000 River Parkways grant request with the Yolo County RCD as the lead agency and the Cache Creek Conservancy also a grant partner. The grant submission made it to the next step, which is a site visit to the Capay Open Space Park.
- Yolo County enacted an ordinance that makes it illegal to drive motorized vehicles in or along Cache Creek effective February 25th between the hours of 7 pm and 6 am. The County will be applying for a \$250,000 State parks grant to identify a permanent site for a County owned and operated OHV Park.
- Yolo County RCD continues to investigate funding opportunities to implement their Cache Creek Invasive Species Management Plan (originally funded with WRA project funds). They are preparing a small grant application through the Dept. of Forestry (up to ~\$25,000 with ~60% match) to continue plan implementation.
- WRA participating agencies are moving forward with the Prop.1 Storm Water Resources Planning Grant application that is due March 18th. Kennedy/Jenks was hired to prepare the grant application with input from WRA agencies. A short history on the local grant application process was given.

7. WATER REGULATORY & LEGISLATION ISSUES UPDATE: Tim O'Halloran informed there were two new bills introduced: Senator Wolk-SB1317 (groundwater well regulation/aquifer protection) and Assemblyman Dodd-AB1755 (water data information management system). Elisa informed that Senator Wolk has proposed new legislation (SB 1133) that would remove the sunset date for the Cache Creek Resources Management Plan because the County has done such a good job with their annual reporting. The Plan would be extended indefinitely rather than requiring renewal every 5 years.

8. SUSTAINABLE GROUNDWATER MANAGEMENT ACT (SGMA) PLANNING & IMPLEMENTATION:

- a) Facilitated Public Outreach process update: Tim O'Halloran discussed the draft Groundwater Sustainability Plan (GSP) Emergency Regulations Guide recently released to assist local agencies in understanding the four phases of GSP development and implementation. He had a copy that he circulated for viewing. Yolo's three public outreach meetings are tentatively being scheduled for the last week of March. More information should be available soon.

Tim has been focused on preparing the Basin Boundary Modification (BBM) request by meeting with various stakeholders and affected agencies around the region. The deadline for submitting to DWR is March 31st. The goal is to have one county-wide basin. Currently, there are four sub basins in Yolo County under Bulletin 118. Tim presented several maps of the Yolo sub basins with different proposed boundary scenarios being considered. He summarized discussions with the affected agencies, such as RD

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2068, RD108, and RD999. The WRA Board will be presented a BBM resolution for adoption at their March 14th meeting. A resolution or letter of support for the BBM from other WRA agencies or affected parties would be beneficial for our request. A template resolution or letter could be provided for those interested in presenting to their Board or Council. Tim will continue to reach out to stakeholders in Capay Valley and the North Delta. Mary Fahey reported that Colusa County is still in the early stages of reviewing their basin boundaries, but the County Board has not expressed any concerns with what is being proposing for the Yolo BBM. Elisa gave a brief update on what was discussed at the Solano County Water Agency board meeting last night. She did not stay for the entire meeting and discussion was lengthy.

9. YOLO COUNTY SUBSIDENCE ISSUES:

- a) **Overview of geophysics research regarding subsidence in Yolo County, Stanford University Proposal,** Jesse Crews and Esther Conrad from Stanford University gave an overview of their research plan on understanding subsidence in Yolo County using InSAR techniques. In today's presentation, they will review the two components of their study, geophysical and social science, and the timeline and deliverables anticipated for those components.

Jesse began with a history of subsidence in the Central Valley including its impacts and an overview of current ground-based monitoring efforts. He explained that InSAR techniques are complementary to current efforts. InSAR utilizes satellites equipped with precision radar to measure reflections from the ground surface. As the ground position changes between measurements, the changing travel time of the reflection results in a calculated phase difference between the two measurements. This phase difference can then be used to calculate changes in the ground surface elevation. Jesse reviewed the geophysical project objectives and how InSAR techniques may be used to monitor and assess subsidence while complementing and/or possibly improving upon traditional subsidence monitoring techniques using ground-based GPS stations. Their analysis will compare InSAR subsidence data in Yolo County from the same time periods as previous ground-based GPS surveys to assess any potential benefits or difference. Their analysis will also characterize any seasonal surface deformation signals observed and compare observed surface deformation patterns to known geologic features. A comprehensive summary of their results, conclusions and recommendations will be provided at the end of the study.

The geophysical project timeline was outlined as follows:

- Complete gathering background data by May 2016
- Complete processing and initial analysis of InSAR data by November 2016
- Final publication of results in early 2017

The Stanford team will provide interim presentations to the WRA TC in early/mid-summer 2016 for the data gathering and in late summer/early autumn 2016 for the InSAR analysis process.

Esther gave an overview of the two key goals for the study's Social Science complement. This portion of the study will investigate how the use of InSAR influences the understanding of subsidence among Yolo County stakeholders and how this additional information can influence or enhance the decision-making process. How can this additional technical information assist with the development of policies and solutions in response to subsidence problems? Secondly, since subsidence is identified as one of the "undesirable results" under the SGMA, the social science study will investigate how subsidence concerns/responses will factor into the GSA governance structure formation and the eventual GSP development for Yolo County. Esther explained how this research will be conducted. The study would

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begin with baseline interviews (spring 2016). Then, they will conduct brief surveys after the InSAR analysis presentations, and post-study interviews (fall 2016/winter 2017). The final presentation/report is anticipated in the spring/summer 2017, sharing their findings/recommendations. Esther will meet with Tim after today's meeting to discuss possible study participants to interview throughout the process. She welcomed any input from the TC as well.

The Stanford team is hoping the study findings will help the WRA by:

- assessing how useful InSAR may be in GSP development, particularly in defining thresholds of “significant and unreasonable” subsidence,
- identifying effective approaches for sharing InSAR and other technical data in ways that facilitate stakeholder understanding,
- gaining additional perspectives on the GSA development process and share lessons with other basins.

Jesse and Esther answered questions. Jesse Crews jcrews@stanford.edu; Esther Conrad esther@stanford.edu. Their PPT will be available at http://www.yolowra.org/meeting_technical.html.

- b) **Subsidence Network Monitoring 2016**, Max Stevenson distributed a handout of the ~65 station subsidence network illustrating the location of the survey monuments used in the previous Yolo surveys by Frame Surveying & Mapping. He explained how the ground surveying method compares to the InSAR satellite technology. The WRA agreed to contract with Jim Frame for another on the ground monitoring survey. The contract is \$92,100 that will be funded by the WRA and several member agencies as agreed upon in September 2015. Max reminded that several agencies have also agreed to provide volunteer staff to conduct the survey. The City of Woodland and Davis have contributed volunteers for this project in the past. Max informed that we will need 5 volunteers for 10-13 pre-scheduled days. This includes 1 day of training, 9 days of observations and up to 3 days of re-observations if needed after quality control checking. This would happen sometime between mid-July to mid-August. CalTrans and DWR have participated in past observation events with staff/equipment resources. Jim Frame agreed to reach out to both agencies to determine whether they would be participating this year. Jesse will coordinate with Jim Frame as we transition to the updated satellite imagery data collection and analysis process. Max distributed a sign-up sheet to gather agency contact information for volunteers and available dates. Max reviewed the budget that was agreed upon in September (and adopted by the WRA Board). Max/Tim will need to confirm Conaway's level of participation before executing the Frame contract. Max has a draft contract with Frame's scope of work ready to go. He informed that the dollar value of the in-kind resources for this project is about \$180,000. Tim O'Halloran reinforced that subsidence monitoring is a Foundational Action under the Yolo County IRWMP. The baseline data from this project supports many other projects and activities in Yolo County. Max mentioned another InSAR technology application is to measure groundwater withdrawals by measuring pumping levels by the amount of deflection in the annual elastic subsidence in confined aquifers.

- 10. SMALL COMMUNITIES GROUNDWATER CONTAMINANT ROUNDTABLE:** Elisa and Carol Scianna have been coordinating to convene a roundtable discussion on naturally occurring groundwater contaminants for small communities. The meeting will be held in the Winters City Hall on March 14th at 10 am. Topics for discussion will be the regulatory climate of naturally occurring groundwater contaminants, treatment/ remediation for small community drinking water systems, and funding for treatment/remediation. Elisa will send a flyer to Donna for email distribution and web posting when available.

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11. WRA PROJECT FUND BUDGET:

- a) FY2015-16 Projects: The full list of projects allocated funding in FY2015-16 is listed on the agenda for informational purposes. Donna gave a quick update on the status of projects being funded this fiscal year. Projects have been invoicing the WRA as work is performed. The Yolo County RCD will be holding their orchards BMP technical workshop in April. Jeanette offered some details about the workshop and who would benefit from the information. Robin Kulakow will give an update to the TC on Yolo Bypass activities at a future TC meeting.

12. MEMBER INFORMATION & FUTURE AGENDA ITEMS:

Yolo County, Winters, Yolo County RCD, YCFC&WCD and Woodland gave brief updates on current activities and water conservation efforts.

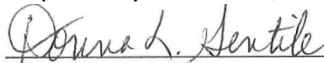
Future Agenda Items suggested were presentations on:

- RD 108's Flow Meter Program
- City of Woodland's AquaHawk Alerting web-based water use portal software
- Future progress updates on Stanford University's geophysics research on subsidence

13. NEXT REGULAR TC MEETING DATE: April 7, 2016, 8:30 - 10:30 a.m., Yolo County Flood Control & Water Conservation District Board Room.

14. ADJOURN at 10:30 am

Respectfully submitted,



Donna L. Gentile

Board Secretary & Administrative Coordinator