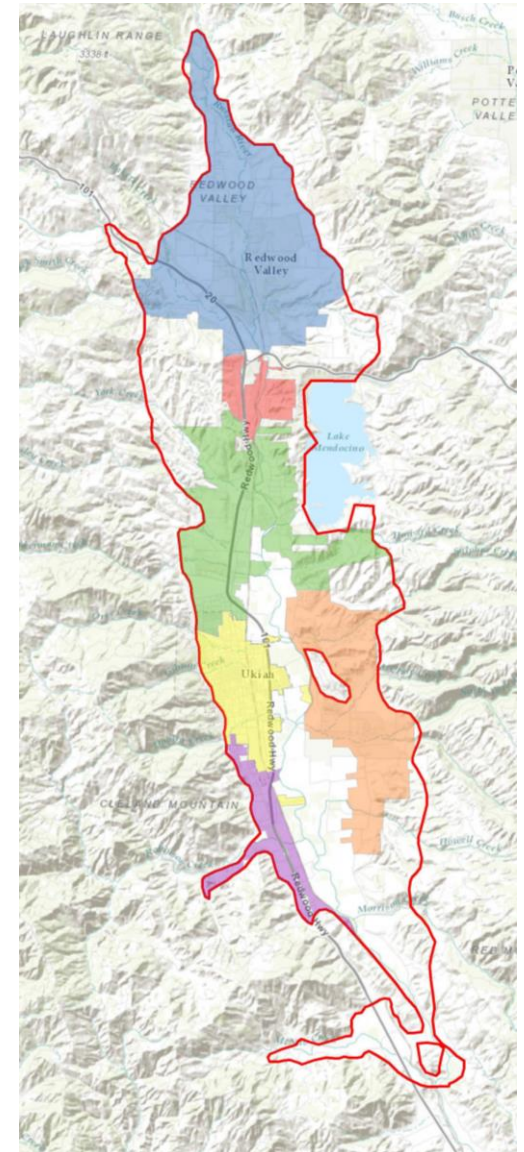


PHASE 2 OF UKIAH VALLEY BASIN GROUNDWATER SUSTAINABILITY PLAN DEVELOPMENT



Meeting Agenda

Ukiah Valley Basin Groundwater Sustainability Agency

1:30 P.M. - Thursday, September 13, 2018 Mendocino County Board of Supervisors
Chambers, 501 Low Gap Road, Room 1070, CA 95482

Groundwater Sustainability Plan: kickoff meeting:

1. Introductions
2. Presentation of the project team
3. Overall Project Schedule, including near term activities/deliverables
4. Overall meeting schedule
5. Communication plan
 - a. DWR
 - b. Draft of Communication Plan outline including communication with GSA, with TAC, with stakeholders, with public
6. TAC review: regular process and process for Phase 1 reports
7. Interaction with USGS effort
8. Potential for additional DWR funding through Technical Support Services (TSS)
9. Next meeting

Presentation Overview

- Introductions
- Project & meeting schedule
- Communication Plan
- USGS interaction
- TAC process
- Additional DWR funding



Our Team

L A R R Y
W A L K E R



ASSOCIATES



Project Team



Tom Grovhoug, PE
Strategic Advisor



Laura Foglia, PhD
Project Manager



Sam Sandoval Solis, PhD
Strategic Advisor/Task Lead



Amir Mani, PhD, PE
Assistant Project Manager



Samira Ismaili
Assistant Task Lead



Chris Petersen, P.G., C.Hg.
Task Lead

Keys to success

Our GOAL: GSP accepted by DWR and local stakeholders

- Effective communication and community involvement
- On time, effective, and successful deliverables
- Tools (database, models) useful into the future
- Effective coordination with USGS modeling effort



Communication Plan

- Develop initial Project and Meetings Schedule
 - Meeting(s) with GSA
 - Set goals and desired outcomes
 - Develop Initial Message Points
 - Describe GSA decision making process
- Review Outreach efforts to date
 - Identify key stakeholders
 - Conduct interviews with identified stakeholders



Communication Plan

- Identify special work groups
- Refine Message Points for stakeholder involvement and public outreach
- Refine Meetings Schedule
- Develop Public Outreach Element
 - Website
 - Community meetings
 - Digital Communications
 - Media outreach activities
- Evaluation and Assessment Element



Communication Plan: Key Stakeholders

Groundwater Sustainability Agency (GSA) Board of Directors

County of Mendocino

Carre Brown

City of Ukiah

Douglas F. Crane

Russian River Flood Control

Alfred White

Upper Russian River Water Agency

Jerry Cardoza

Tribal Seat

Brandi Brown

Agricultural Seat

Zachary Robinson

Technical Advisory Committee (TAC) Members

County of Mendocino

City of Ukiah

Russian River Flood Control

Upper Russian River Water Agency

Tribal Representative

Agriculture Representative

Local Stakeholders

Sonoma County Water Agency

Mendocino County Resource
Conservation District

California Land Stewardship
Institute

Domestic Well Owners

Communication Plan: Local Key Stakeholders

Private Water Companies:

City of 10,000 Buddhas

Rogina Water Company

Yokayo Water Systems

Public Water Systems:

Upper Russian River Water Agency

Redwood Valley County Water District

Millview County Water District

Willow County Water District

Calpella County Water District

Ukiah Valley Basin Residents

Public at-large; Citizen Groups

Disadvantaged Communities in UVB

Non-governmental Organizations

Environmental/Environmental Justice/Other

California Native American Tribes

Redwood Valley Rancheria

Coyote Valley Reservation

Pinoleville Pomo Nation

Potter Valley Rancheria

Guidiville Rancheria

Hopland Reservation

Agriculture

Mendocino County Farm Bureau

Mendocino County Wine Growers Association

Pears

Cannabis

Other agricultural landowners

Inland Water and Power Commission

Communication Plan: State and Federal Stakeholders

State

UC Davis Cooperative Extension

Department of Water Resources (DWR)

North Coast Regional Water Quality Control Board

California Department of Fish and Wildlife (CDFW)

Federal

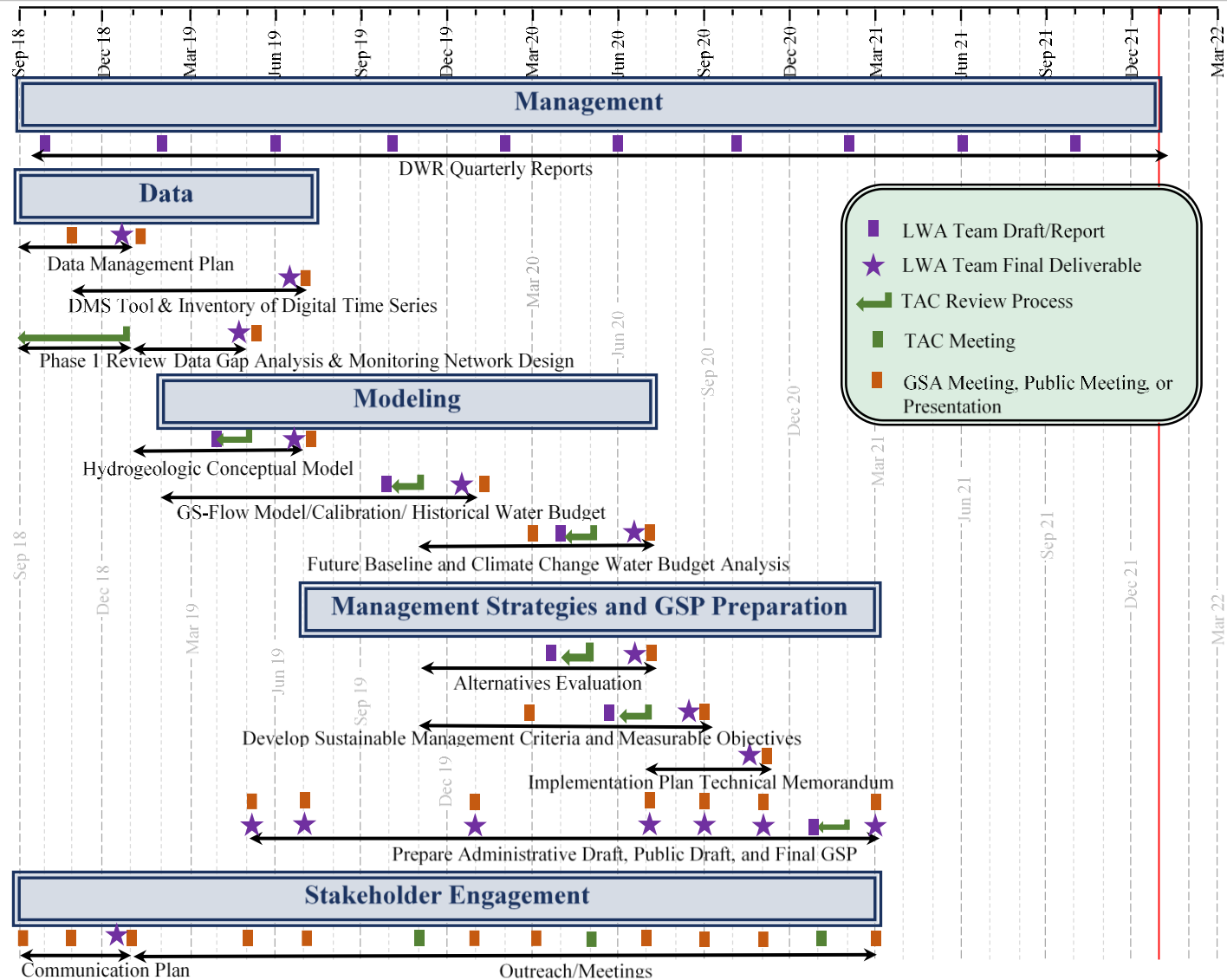
US Army Corps of Engineers

US Fish and Wildlife Service (USFWS)

NOAA Fisheries

Forest Service

Project schedule



Important Dates and Deliverables

UVBGSa Important Dates for Deliverables

13 September 2018	9 January 2020
<ul style="list-style-type: none"> • Introduction • Project Schedule 	<ul style="list-style-type: none"> • Groundwater Model • Sustainable Management Criteria • Measurable Objectives
8 November 2018	12 March 2020
<ul style="list-style-type: none"> • Data Management Plan Needs Assessment 	<ul style="list-style-type: none"> • Sustainable Management Criteria • Measurable Objectives • Future Baseline Water Budget
10 January 2019	9 July 2020
<ul style="list-style-type: none"> • Communication Plan • Data Management Plan 	<ul style="list-style-type: none"> • Future Baseline Water Budget • Alternative Scenarios
9 May 2019	10 September 2020
<ul style="list-style-type: none"> • Data Gap Analysis • Monitoring Network Analysis 	<ul style="list-style-type: none"> • Final Sustainable Management Criteria • Final Measurable Objectives
11 July 2019	12 November 2020
<ul style="list-style-type: none"> • Data Management System • Hydrogeologic Conceptual Model 	<ul style="list-style-type: none"> • Final GSP Implementation Plan
	11 March 2021
	<ul style="list-style-type: none"> • Final GSP Draft/ GSP Submittal

Technical Advisory Committee Deliverable Schedule

13 September 2018 – 10 January 2019
<ul style="list-style-type: none"> • Phase 1 Review
9 April 2019 - 9 May 2019
<ul style="list-style-type: none"> • Hydrogeologic Conceptual Model
14 October 2019 - 14 November 2019
<ul style="list-style-type: none"> • Groundwater Model
14 April 2020 – 14 May 2020
<ul style="list-style-type: none"> • Future Baseline Water Budget • Alternatives Evaluation
9 June 2020 – 9 July 2020
<ul style="list-style-type: none"> • Sustainable Management Criteria • Measurable Objectives
14 January 2021 – 11 March 2021
<ul style="list-style-type: none"> • Draft GSP

TAC process

■ Typical regular process

- Product (Tech Memo, Report, GSP Chapter) sent to TAC 1 month prior to upcoming meeting for review (Month 0).
- Comments received from the TAC in the upcoming meeting, presentation conducted if necessary (Month 1).
- Comments implemented and final product presented at the next meeting with GSA (Month 3).



TAC process

■ Review of Phase 1 reports

Document Title	Related GSP Deliverable	Total Length	Sections for Review	Most Important Sections
Initial Groundwater Sustainability Plan Hydrogeologic Conceptual Model (IHCM)	HCM	20 Pages (354 Pages with Appendices)	Sections 1-8 (20 pages)	Sections 2 - 8
Initial Groundwater Sustainability Plan Preliminary Water Budget Study	Water Budget/Modeling	18 Pages (95 with Appendices)	Sections 1-6 (18 pages)	Sections 1.2 & 6
Preliminary Sustainable Management Criteria	Sustainable Management Criteria	18 Pages	Section 2 & 3 (5 pages)	Sections 2.7 & 3.1.6
Data Gap Analysis	DMS/Data Gap	13 Pages (38 with Appendices)	Section 1-6 (10 pages)	Sections 2, 3, and 6; and probably 4 & 5

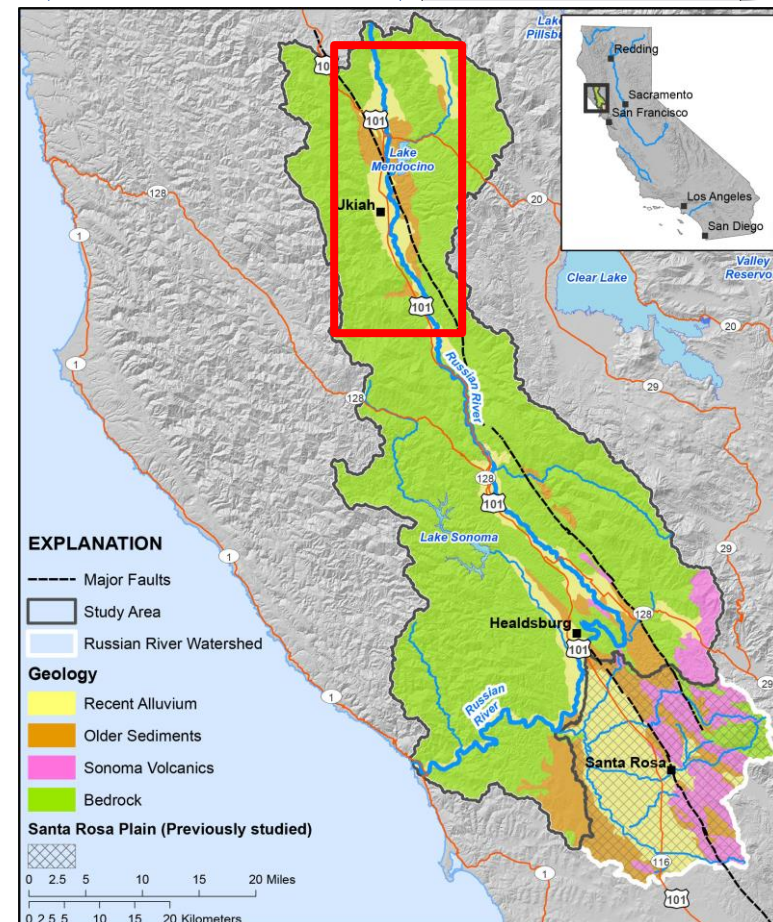
Coordination with neighboring basins and ongoing efforts

- Develop tools that can easily be integrated and shared with neighboring basins
- Provide clear assumptions and documentation of data, models & scenarios
 - To enhance communication
 - To enable successful management of the entire watershed

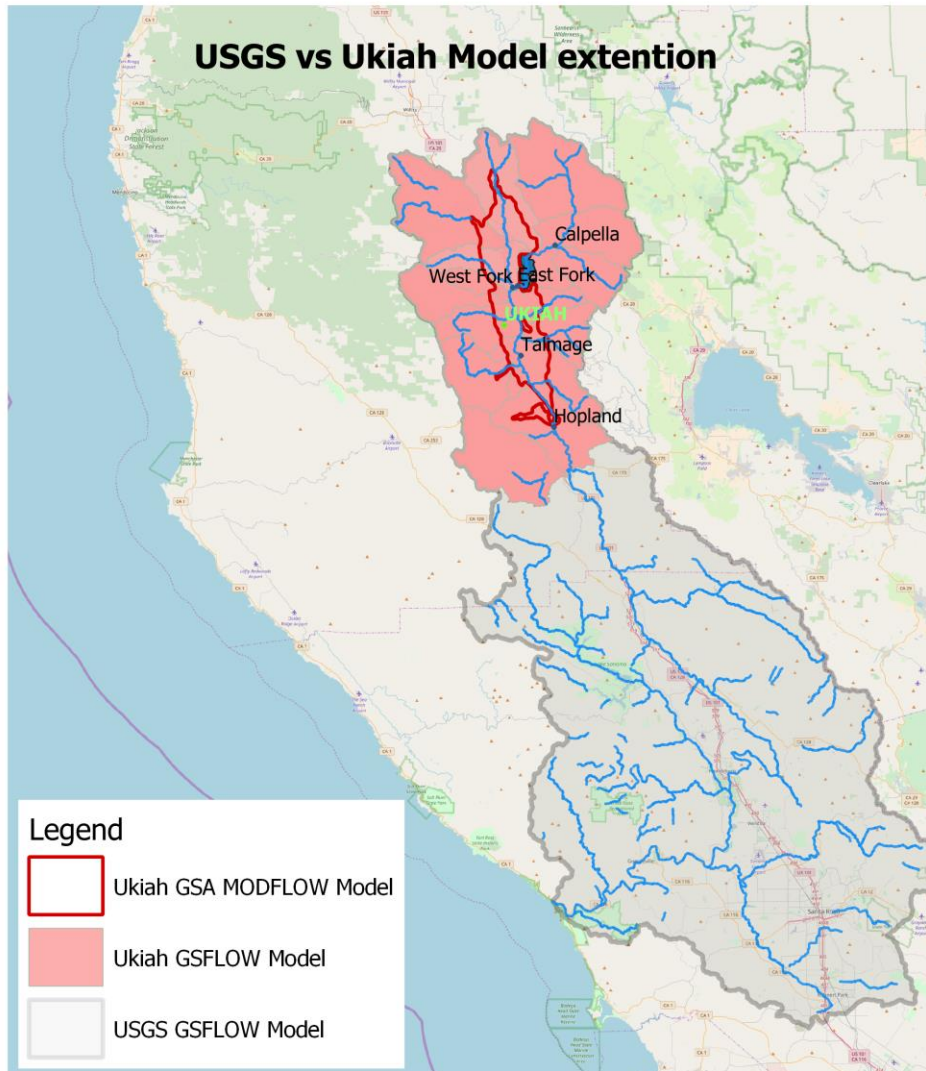


Prepared in cooperation with the California State Water Resources Control Board, Sonoma County Water Agency, City of Ukiah, County of Mendocino, Mendocino County Russian River Flood Control and Water Conservation Improvement District, Upper Russian River Water Agency, and Redwood County Water District.

The New USGS Study of the Russian River Watershed



Models: existing and future

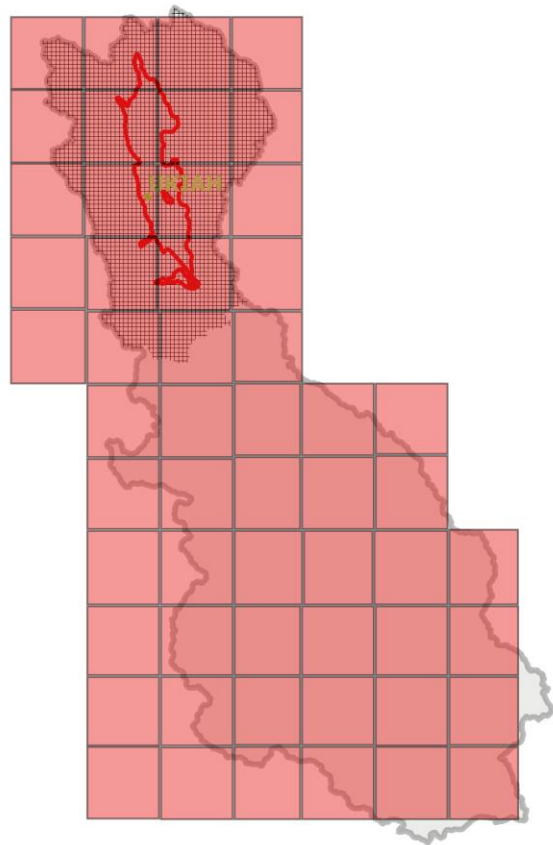


1. Ukiah Valley Groundwater Basin groundwater model: existing MODFLOW model will be modified to be easily incorporated into the larger USGS effort
2. Ukiah watershed: GSFLOW model to be developed
3. Russian River watershed: GSFLOW model under development by USGS

MODFLOW: groundwater flow model

GSFLOW: PRMS+MODFLOW, used to represent surface water/groundwater interactions

How will the models interact?



Ukiah Valley model → much finer resolution to better represent local knowledge

The two models will align → easy exchange of information



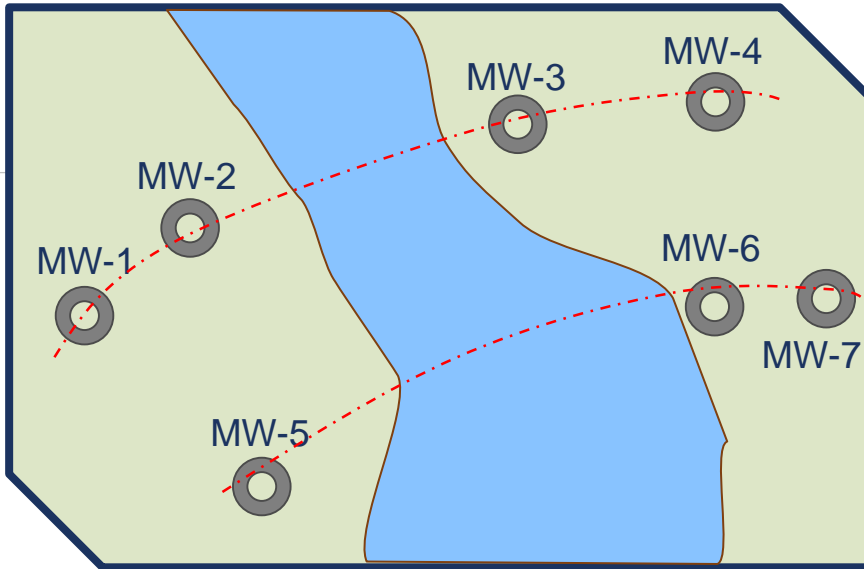
USGS Grid dimension

Ukiah GSA Grid dimension

DWR TSS

- Working with DWR to apply for TSS funding for Pressure Transducers.
 - TSS funding available mostly for well drilling, but installation of equipment is being strongly considered by DWR
 - To better answer questions about SW/GW interactions, we suggested installation of continuous measurements in wells perpendicular to the river
 - Groundwater level, temperature, EC (as needed) can be measured continuously and transmitted daily to website

Suggested set up



Next steps

- Working with TAC on phase 1 review
- Draft Data Management Plan
- Draft communication plan
 - Schedule and content of meetings
 - Stakeholder identification
- Agreement with USGS on sharing data and information
- Develop application for Technical Support Services

Questions?



Thank you!