



UKIAH VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY

340 Lake Mendocino Dr. ♦ Ukiah ♦ California 95482 ♦ (707)463-4363 ♦ fax (707)463-5474

NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that the Ukiah Valley Basin Groundwater Sustainability Agency (“Agency”) Board of Directors (“Board”) will hold its regular Board Meeting at:

1:30 P.M. - Thursday, February 11, 2021

Zoom Link: <https://mendocinocounty.zoom.us/j/87395151219>

Meeting ID: 873 9515 1219

Phone: +1 669 900 9128

Due to COVID-19 the UVBGS Board meetings will be conducted virtually and not available for in person public participation (pursuant to State Executive Order N 29 20).

The public may participate digitally in meetings by sending comments to uvbgsa@mendocinocounty.org or by clicking the link above to join the Zoom meeting, in lieu of personal attendance.

All email comment must be received by 8:00 A.M. the morning of the meeting in order to be published online prior to the meeting.

AGENDA

1. CALL TO ORDER AND ROLL CALL

2. PLEDGE OF ALLEGIANCE

3. ACTION ITEMS

a. Discussion and Possible Appointment Of Agricultural Stakeholder Director and Alternate Director Seat

The Board shall review the Agricultural Seat nominations submitted by the Mendocino County Farm Bureau for appointment consideration.

b. Discussion and Possible Appointment Of Tribal Stakeholder Director

The Board shall review the Tribal Stakeholder nomination by the six (6) Tribes within the Ukiah Valley to confirm their appointment.

c. Discussion and Possible Appointment of Officers Including Chairman, Vice-Chairman, Secretary, and any Other Officers as Determined Necessary by the Board of Directors



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The Board shall appoint the following officers: Chair, Vice-Chair and Secretary.

d. Discussion and Possible Approval of Minutes from the November 12, 2020, Regular Meeting

e. Discussion and Possible Action to Approve Land Access Agreements for Building the Monitoring Network in the Ukiah Valley Basin

The Board will review the two land access agreements for access to wells located on real property owned by the Mendocino Wine Company and Millview County Water District. These wells will build out the Monitoring Network being incorporated into the GSP.

f. Discussion and Possible Action to Approve the Updated Ukiah Valley Basin Groundwater Sustainability Agency Communication and Engagement Plan

The Board will review the updated Communication and Engagement Plan developed to promote the efficient and effective coordination of internal/external communications and stakeholder engagement in the Ukiah Valley Basin Groundwater Sustainability Agency (UVBGSA) effort to develop a Groundwater Sustainability Plan (GSP) and reflects the new communication protocol adapted during the ongoing COVID-19 crisis.

g. Presentation, Discussion and Possible Action Regarding the Development of Components of the Ukiah Valley Basin Groundwater Sustainability Plan

The Board will receive an update and presentation from Larry Walker and Associates regarding components of the Ukiah Valley Groundwater Sustainability Plan including Technical Advisory Committee recommendations, draft GSP Chapter rollout schedule, monitoring network updates and development of Project and Management Actions and Sustainable Management Criteria.



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4. STAFF UPDATES

5. DIRECTOR REPORTS

6. PUBLIC COMMENTS ON ITEMS NOT ON THE AGENDA

The Board will receive public comments on items not appearing on the agenda and within the subject matter jurisdiction of the Agency. The Board will not enter into a detailed discussion or take any action on any items presented during public comments. Such items may only be referred to staff for administrative action or scheduled on a subsequent agenda for discussion. Persons wishing to speak on specific agenda items should do so at the time specified for those items. The presiding Chair shall limit public comments to three minutes.

7. ADJOURNMENT

The Ukiah Valley Basin Groundwater Sustainability Agency complies with ADA requirements and upon request, will attempt to reasonably accommodate individuals with disabilities by making meeting material available in appropriate alternative formats (pursuant to Government Code Section 54953.2). Anyone requiring reasonable accommodation to participate in the meeting should contact the Mendocino County Department of Transportation by calling (707) 463-4363 at least 5 days prior to the meeting.

Please reference the Mendocino County website to obtain additional information for the Ukiah Valley Basin Groundwater Sustainability Agency: <http://www.mendocinocounty.org/uvbgsa>



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

Item No.:	3.a
Date:	2/11/21
To:	Board of Directors
Subject:	Discussion and Possible Appointment of Agricultural Stakeholder Director and Alternate Director Seat
Consent Agenda <input type="checkbox"/> Regular Agenda <input checked="" type="checkbox"/> Noticed Public Hearing <input type="checkbox"/>	

Summary:

Article 7.1.2.(a) of the Joint Powers Agreement (JPA) requires One (1) Agricultural Stakeholder Director. The Agricultural Stakeholder Director shall meet the following criteria, determined at the sole discretion of the Board Members: (1) be a resident of Mendocino County; (2.a) own/ lease real property in active commercial agricultural production overlying the Basin or (2.b) be an employee of a commercial agricultural production operation overlying the basin involved with water use decisions and (3) extract groundwater from the Basin for the irrigation/frost protection of at least fifteen (15) acres of agricultural crops in commercial operation. The Agricultural Stakeholder may not be a party to any pending litigation against the Agency or any of its Members.

Recommended Action:

1. Review the nominees submitted by the Mendocino County Farm Bureau and appoint the Agricultural Stakeholder Director and Alternate Director to the Board.

Background:

The Farm Bureau nominates:

Stakeholder Director: Zachary Robinson

Alternate Stakeholder Director: Levi Paulin



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

Fiscal Summary: No fiscal impact.

Action: _____

Motion: _____ **2nd:** _____



Mendocino County Farm Bureau

303-C Talmage Road • Ukiah, CA. 95482 • (707) 462-6664 • Fax (707) 462-6681 • Email: admin@mendofb.org

Affiliated with the California Farm Bureau Federation and the American Farm Bureau Federation

February 8, 2021

Ukiah Valley Basin GSA
340 Lake Mendocino Drive
Ukiah, CA 95482

Via Email: uvbgsa@mendocinocounty.org

Dear GSA Board Members,

Mendocino County Farm Bureau is officially submitting names to be considered for appointment to the agricultural director and alternate agricultural director position per the appointment process outlined in section 7.3.2 (a) of the joint powers authority forming the Ukiah Valley Basin Groundwater Sustainability Agency (GSA) as well as the process for nomination for the agricultural director and alternate that was approved at the June 15, 2017 GSA meeting.

Mendocino County Farm Bureau has found the nominees listed below to be qualified for appointment to the agricultural director and alternate agricultural director position which is scheduled to occur at the February 11, 2021 GSA meeting.

The nominees are:

Levi Paulin-Alternate
Zac Robinson-Director

Mendocino County Farm Bureau appreciates the opportunity to participate in this process. If there are any questions, please feel free to contact us.

Sincerely,

George Hollister
President

Agricultural Director Applicant Information Form

According to paragraph 7.1.2(a) of Article 7 of the joint powers agreement forming the Ukiah Valley Basin Groundwater Sustainability Agency (GSA), nominees for the agricultural stakeholder director and alternate are to be selected by Mendocino County Farm Bureau and are required to meet the following criteria:

The Agricultural Stakeholder Director shall meet the following criteria, determined at the sole discretion of the Board Members: (1) be a resident of Mendocino County; (2.a) own/ lease real property in active commercial agricultural production overlying the Basin or (2.b) be an employee of a commercial agricultural production operation overlying the basin involved with water use decisions and (3) extract groundwater from the Basin for the irrigation/frost protection of at least fifteen (15) acres of agricultural crops in commercial operation. The Agricultural Stakeholder may not be a party to any pending litigation against the Agency or any of its Members.

As a nominee for the position to be considered for the Ukiah Valley Basin GSA agricultural stakeholder director and alternate, please verify that you meet the following criteria¹:

1. Are you a resident of Mendocino County? (please circle one) ☒ YES ☐ NO

2. Please fill out (a) or (b) below.

(a) Please provide physical address or APN numbers of commercial agricultural property that you own or lease within the boundaries of the Ukiah Valley ground water basin.

4640 OLD RIVER RD / 1551 HOWELL CREEK RD

(b) If you are employed by a commercial agricultural production operation within the boundaries of the Ukiah Valley ground water basin, please list the name of the operation and the physical address or APN numbers for the related properties.

3. Do you use groundwater for frost protection or irrigation on the properties listed above?
(Please circle one) ☒ YES ☐ NO

Please list which commercial agricultural commodities are produced on the properties listed above.

Wine Grapes

Do the properties listed above meet the minimum size requirement of 15 acres?
(Please circle one) ☒ YES ☐ NO

¹ Applicants may be asked to show documentation to support the information provided in the answers to the questions in this Information Form.

Nominee Contact Information

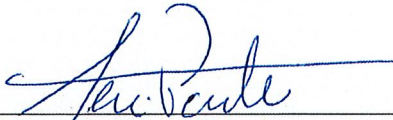
Name: Levi Paulin

Phone Number: (707) 391-9787

Mailing Address: 1551 Howell Creek Road, Ukiah, CA 95482

Email Address: levi@paulinag.com

I declare under penalty of perjury that the information provided above and within supporting documentation is true and correct.



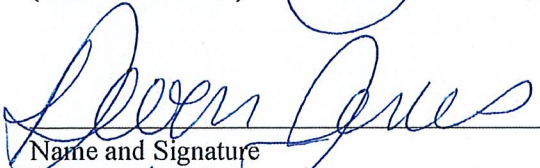
Nominee Signature

2-8-2021

Date

Section Below For Use By Mendocino County Farm Bureau

Based on the information provided, does the nominee meet the requirements of Article 7.1.2(a) of the joint powers agreement forming the Ukiah Valley Basin Groundwater Sustainability Agency (GSA)?
(Please circle one) **YES** **NO**



Name and Signature

2/8/21

Date

Nominee submitted to GSA on 2/8/21 (Date)

Agricultural Director Applicant Information Form

According to paragraph 7.1.2(a) of Article 7 of the joint powers agreement forming the Ukiah Valley Basin Groundwater Sustainability Agency (GSA), nominees for the agricultural stakeholder director and alternate are to be selected by Mendocino County Farm Bureau and are required to meet the following criteria:

The Agricultural Stakeholder Director shall meet the following criteria, determined at the sole discretion of the Board Members: (1) be a resident of Mendocino County; (2.a) own/ lease real property in active commercial agricultural production overlying the Basin or (2.b) be an employee of a commercial agricultural production operation overlying the basin involved with water use decisions and (3) extract groundwater from the Basin for the irrigation/frost protection of at least fifteen (15) acres of agricultural crops in commercial operation. The Agricultural Stakeholder may not be a party to any pending litigation against the Agency or any of its Members.

As a nominee for the position to be considered for the Ukiah Valley Basin GSA agricultural stakeholder director and alternate, please verify that you meet the following criteria¹:

1. Are you a resident of Mendocino County? (please circle one) ☒ YES ☐ NO

2. Please fill out (a) or (b) below.

(a) Please provide physical address or APN numbers of commercial agricultural property that you own or lease within the boundaries of the Ukiah Valley ground water basin.

2401 Old River Road

(b) If you are employed by a commercial agricultural production operation within the boundaries of the Ukiah Valley ground water basin, please list the name of the operation and the physical address or APN numbers for the related properties.

3. Do you use groundwater for frost protection or irrigation on the properties listed above?
(Please circle one) ☒ YES ☐ NO

Please list which commercial agricultural commodities are produced on the properties listed above.

Wine Grapes

Do the properties listed above meet the minimum size requirement of 15 acres?
(Please circle one) ☒ YES ☐ NO

¹ Applicants may be asked to show documentation to support the information provided in the answers to the questions in this Information Form.

Nominee Contact Information

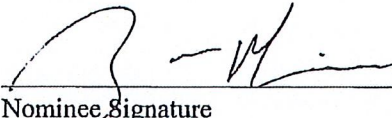
Name: Zac Robinson

Phone Number: (707) 462-5370

Mailing Address: P.O. Box 189, Talmage, Ca, 95481

Email Address: zac@huschvineyards.com

I declare under penalty of perjury that the information provided above and within supporting documentation is true and correct.



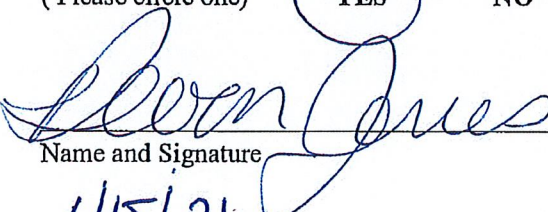
Nominee Signature

1/15/2021

Date

Section Below For Use By Mendocino County Farm Bureau

Based on the information provided, does the nominee meet the requirements of Article 7.1.2(a) of the joint powers agreement forming the Ukiah Valley Basin Groundwater Sustainability Agency (GSA)?
(Please circle one) **YES** **NO**



Name and Signature
1/15/21

Date

Nominee submitted to GSA on 2/8/21 (Date)



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

Item No.:	3.b
Date:	2/11/21
To:	Board of Directors
Subject:	Discussion and Possible Appointment of Tribal Stakeholder Director
Consent Agenda <input type="checkbox"/> Regular Agenda <input checked="" type="checkbox"/> Noticed Public Hearing <input type="checkbox"/>	

Summary:

Article 7 of the Joint Powers Agreement (JPA) provides that one stakeholder director shall be a representative of tribal stakeholders and interest with the Basin. One Tribal Stakeholder Director shall be appointed by the six tribes exercising jurisdiction over Indian lands within the Ukiah Valley Basin identified as Redwood Valley Rancheria, Coyote Valley Reservation, Pinoleville Pomo Nation, Potter Valley Rancheria, Guidiville Rancheria and the Hopland Reservation.

Section 7.3.2 (b) of the JPA provides that the Board of Directors confirm the nomination for the Tribal Stakeholder Director submitted by the six Tribes within the Ukiah Valley. The Member Directors shall confirm the nominee at a regular meeting and shall appoint the Tribal Stakeholder Director upon simple majority vote of all Member Directors.

Recommended Action:

1. Review the nominees submitted by the six Tribes within the Ukiah Valley and confirm appointment of the Tribal Stakeholder Director and Alternate Director to the Board.

Background:

In 2019, the six Tribes of the Ukiah Valley Basin nominated Brandi Brown, Redwood Valley Tribal Treasurer as Tribal Stakeholder Director and Sonny Elliott Jr., Hopland Reservation as Alternate Stakeholder Director for a two year term representing Tribal interests on the UVBGSA Board and TAC.



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

Fiscal Summary: No fiscal impact.

Action: _____

Motion: _____ **2nd:** _____



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

Item No.:	3.c
Date:	2/11/21
To:	Board of Directors
Subject:	Discussion and Possible Appointment of Officers
Consent Agenda <input type="checkbox"/> Regular Agenda <input checked="" type="checkbox"/> Noticed Public Hearing <input type="checkbox"/>	

Summary:

Article 10 of the Ukiah Valley Basin Groundwater Sustainability Agency (UVB) Joint Powers Agreement (JPA) provides for the appointment of Officers. The Board shall appoint a Chairman, Vice-Chairman, Secretary, and any other officers as determined necessary by the Board of Directors. The term is for 2 years and an Officer may serve for multiple consecutive terms.

Recommended Action:

Elect Chair, Vice-Chair and Secretary from the Board of Directors.

Background:

Article 10 of the JPA requires the following:

10.1. Officers. The Board of Directors shall select a Chairman, Vice-Chairman, Secretary, and any other officers as determined necessary by the Board of Directors.

10.1.1. The Chairman shall preside at all Board Meetings.

10.1.2. The Vice-Chairman shall act in place of the Chairman at meetings should the Chairman be absent.

10.1.3. The Secretary shall keep minutes of all meetings of the Board of Directors and shall, as soon as possible after each meeting, forward a copy of the minutes to each member and alternate of the Board of Directors.



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

10.1.4. All Officers shall be chosen at the first Board of Directors meeting and serve a term for two (2) years. An Officer may serve for multiple consecutive terms. Any Officer may resign at any time upon written notice to the Agency.

Fiscal Summary: No fiscal impact.

Action: _____

Motion: _____ **2nd:** _____



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

Item No.:	3.d
Date:	2/11/21
To:	Board of Directors
Subject:	Discussion and Possible Approval of Minutes from the November 12th, 2020, Regular Meeting
Consent Agenda <input checked="" type="checkbox"/> Regular Agenda <input type="checkbox"/> Noticed Public Hearing <input type="checkbox"/>	

Summary:

Approval of Minutes from the November 12th, 2020, Regular Meeting.

Recommended Action:

Approve the November 12th, 2020, regular meeting minutes.

Background:

The Agency convened on November 12th, 2020.

Fiscal Summary:

N/A

Action: _____

Motion: _____ **2nd:** _____



UKIAH VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY
501 Low Gap Rd., Rm. 1010 ♦ Ukiah ♦ California 95482 ♦ (707)463-4441 ♦ fax (707)463-7237

NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that the Ukiah Valley Basin Groundwater Sustainability Agency (“Agency”) Board of Directors (“Board”) will hold its regular Board Meeting at:

1:30 P.M. - Thursday, November 12th, 2020
Mendocino County Board of Supervisors Chambers,
501 Low Gap Road, Room 1070, CA 95482

ACTION MINUTES

1. CALL TO ORDER AND ROLL CALL (1:34 P.M)

Present: Director Carre Brown, Director Alfred White, Director Zachary Robinson, Director Douglas Crane

Absent: Director Richard Mack, Director Brandi Brown.

Public Attendees: Lucia Parmenter, Robert Parmenter, Lana Cohen, Chris Watt,

2. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by: Director Robinson

3. CONSENT ITEMS

a. Approval of Minutes from the September 10th, 2020 Meeting

Presenter/s: Chair Brown.

Public Comment: None.

Board Action: Upon motion by Director White, seconded by Director Crane, and carried (11/12/2020); IT IS ORDERED that the minutes with corrections from the September 10th, 2020, Ukiah Valley Groundwater Sustainability Agency are hereby approved.

4. STAFF UPDATES

a. Appointment Period of UVBGSA Members for 2021/22

b. Data Sharing Reminder

Presenter/s: Ms. Sarah Dukett, Deputy Chief Executive Officer, Mendocino County.

Public Comment: None

Board Action: None

5. PUBLIC COMMENTS ON ITEMS NOT ON THE AGENDA

Presenter/s: Chair Brown

Public Comment: Ms. Lucia Parmenter, Redwood Valley Resident.

Board Action: None.



UKIAH VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY

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6. ACTION ITEMS

a. Discussion and Possible Action Including Adoption of the 2021 Board of Directors Master Meeting Calendar

Presenter/s: Ms. Sarah Dukett, Deputy Chief Executive Officer, Mendocino County.

Public Comment: None.

The Board received an update and recommendation on the 2021 Board Meeting Calendar.

Board Action: Upon motion by Director Robinson and Seconded by Director White the Calendar is Adopted and Approved.

Absent: Director Mack and Director Brown.

b. Update on Outreach and Working Group Meetings

Presenter/s: Ms. Laura Foglia, Senior Engineer, Larry Walker Associates, Ms. Sarah Dukett, Deputy Chief Executive Officer, Mendocino County.

Public Comment: None.

The Board received an update regarding the public, tribal, and working group meetings that were held in the last three months.

Board Action: None.

c. Discussion and Possible Action Regarding Updates to the Monitoring Network

Presenter/s: Ms. Laura Foglia, Senior Engineer, Larry Walker Associates.

Public Comment: Ms. Lucia Parmenter, Redwood Valley Resident.

The Board received an update on the progress on instrumentation of existing wells, installation timeline for new stream gages, and Technical Support Services as well as requirements of the GSP Monitoring Networks.

Board Action: None.

d. Discussion Regarding the Development of Groundwater Sustainability Plan (GSP) Chapters and Upcoming Opportunities for Review

Presenter/s: Ms. Laura Foglia, Senior Engineer, Larry Walker Associates; Mr. Amir Mani, Larry Walker Associates;

Public Comment: None

The Board received an update on the progress of GSP Chapter 2 edits as well as a timeline of development of additional chapters and the upcoming opportunities for review by the Board, Technical Advisory Committee and the public.

Board Action: None.



UKIAH VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY

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e. Presentation and Discussion Regarding the Future Scenarios and Collaboration with Sonoma Water

Presenter/s: Ms. Laura Foglia, Senior Engineer, Larry Walker Associates; Mr. Amir Mani, Larry Walker Associates;

Public Comment: Director Robinson, Director White.

The Board received an update and recommendations from Larry Walker and Associates on the current future scenario under development for the GSP as well as a summary of responses from the Future Scenarios Survey.

Board Action: Instructed Staff to identify and focus the scope of each of the Future Scenarios to develop a long term budget and funding strategy for UVBGSA operations.

7. DIRECTOR REPORTS

Presenter/s: Chair Brown .

Public Comment: None.

8. ADJOURNMENT (3:08 P.M.)

Attest: BRANDI BROWN
Secretary

CARRE BROWN, Chair



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

Item No.:	3.e
Date:	2/11/21
To:	Board of Directors
Subject:	Discussion and Possible Action to Approve Land Access Agreements for Building the Monitoring Network in the Ukiah Valley Basin
Consent Agenda <input type="checkbox"/> Regular Agenda <input checked="" type="checkbox"/> Noticed Public Hearing <input type="checkbox"/>	

Summary:

The Board will review the two land access agreements for access to wells located on real property owned by the Mendocino Wine Company and Millview County Water District. These wells will build out the Monitoring Network being incorporated into the GSP.

Recommended Action:

Accept and Sign the Land Access Agreements.

Background:

Due to a scarcity of long term monitoring data in the Ukiah Valley Basin, the UVBGSA is creating a monitoring network by signing agreements with landowners and water purveyors in the Basin to monitor ground water levels and water quality through their wells for the 20 year duration of the GSP.

Fiscal Summary: N/A

Action: _____

Motion: _____ **2nd:** _____

PROPERTY ACCESS
AND
DATA COLLECTION AND USE AGREEMENT

This Property Access and Data Collection and Use Agreement (the "Agreement") is made and entered into as of this 18th day of November, 2020, by and between the Ukiah Valley Basin Groundwater Sustainability Agency (the "UVBGSA"), a public entity, and Mendocino Wine Group LLC, ("Landowner").

RECITALS

WHEREAS, the Sustainable Groundwater Management Act ("SGMA") requires that all groundwater basins designated as high and medium priority basins be managed by a Groundwater Sustainability Agency ("GSA"), and;

WHEREAS, the UVBGSA is the GSA for the Ukiah Valley Groundwater Basin ("Basin"), which have been designated by the Department of Water Resources (DWR) as a medium priority basin, and;

WHEREAS, the UVBGSA is required to develop and submit Groundwater Sustainability Plans to DWR by January 2022; and

WHEREAS, the UVBGSA, as part of the process to sustainably manage regional water resources, needs to collect data on, and monitor, groundwater levels in the Basin; and

WHEREAS, Landowner resides in the Basin and desires to cooperate in this sustainable groundwater management effort by allowing the Agency and its agents to enter Landowner's property to install and maintain groundwater monitoring equipment, and to remotely collect and use data from Landowner's well.

NOW THEREFORE, in consideration of the mutual covenants, undertakings and conditions set forth below, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

Section 1. The Property. Landowner is the owner of real property located at 280 W Lake Mendocino, Ukiah, CA, 95482 (APN No.1691102), (the "Property"), including the well designated in the map attached as Attachment "A" (the "Well").

Section 2. Grant of Access. Landowner grants the UVBGSA, and its contracted agents, vehicular and pedestrian access to, and across, the Property to the Well, as further delineated on the map attached as Attachment "A". Property access shall be

limited to week days, between the hours of 8:00 a.m. and 5:00 p.m. pacific standard time.

Section 3. Limitations on Use. The Grant of Access set forth in Section 1 is for the sole purpose of monitoring groundwater at the Well, including installing, operating, maintaining and removing monitoring equipment from the Well. The UVBGS, and its contracted agents, shall exercise reasonable care in accessing the Property so as not to damage the Property.

Section 4. Telephonic or Email Notice Prior to Access. The Agency, or its agents, shall provide 24-hours' notice to Landowner prior to accessing the Property. This notice may be given by telephone or through electronic mail, and shall include the contact information for the Agency's employee or agent that will be accessing the Property.

Section 5. Monitoring Equipment; Monitoring Techniques. The Agency, or its agents, will install, operate, and maintain a stainless steel transducer and water level transmitter at the Well. The transducer will be placed down the well below the static groundwater level. The transmitter unit will be placed above and connected to the transducer by a reader cable. Property access for one to two days will be required for the initial well assessment and installation of the monitoring equipment. The monitoring equipment will record hourly water level measurements and transmit a report to the Agency, or its agents, for remote monitoring. The Agency, or its agents, will access the Property to replace equipment batteries every two to three years, and will also access the Property for troubleshooting and maintenance issues as they arise.

Section 6. Use of Monitoring Data. The Agency, or its agents, will analyze the Monitoring Data collected at the Well, along with data from other monitored wells, to track groundwater levels, understand the relationship between surface water and groundwater, improve the accuracy and reliability of relevant water resource models, and inform the Agency's development of the basins' Groundwater Sustainability Plan. Monitoring Data will be available to the Agency, its agents, and Landowner through a secure online site.

Section 7. Data Disclosure. Data collected from the Property is subject to requests for public disclosure under the California Public Records Act (the "Act"). To the extent allowed by law, and consistent with the limitations of the Act and Water Code section 13752, the Agency shall endeavor to maintain the confidentiality of Landowner's information; however, such information could be accessed through a public records request. In such a case, the Agency shall notify Landowner.

Section 8. Removal of Equipment. The Agency, or its agents, shall remove the Monitoring Equipment from the Well and the Property at the conclusion of this Agreement.

Section 9. Hold Harmless. Landowner shall defend, indemnify and hold harmless the UVBGSA, its officers, agents, and employees, from any and all claims, liabilities, and losses whatsoever, occurring or resulting, or alleged to be occurring or resulting, to any and all persons, firms, or corporations, arising from or in connection with this Agreement, unless such claims, liabilities or losses arise out of the sole negligence or willful misconduct of the UVBGSA. This obligation shall survive the expiration or termination of this Agreement.

Section 10. Termination. This Agreement shall terminate upon the receipt by one party of a written notice of termination from the other party. If monitoring equipment remains on the Property at the time a notice of termination is received, the parties shall reasonably schedule its removal by the Agency, or its agents.

Section 11. Notices. Excepting advance telephonic notice of Property access under Section 4, all notices and other communications required or permitted under this Agreement shall be in writing and shall be given to each party at its physical address or through an email address as set forth below, or at such other address that a party has most recently specified in written notice to the other party.

Ukiah Valley Basin Groundwater Sustainability Agency:

Attn: Sarah Dukett
Ukiah Valley Basin Groundwater Sustainability Agency
501 Low Gap Road, Room 1010
Ukiah, CA 95482
Tel: (707) 463-4441
Email: uvbgsa@mendocinocounty.org

Landowner: Mendocino Wine Group, LLC

Attn: Chase Thornhill
Address: 501 Parducci rd, Ukiah CA
Tel: 707 391 0347
Fax:
Email: chaset@mendocinowineco.com

Section 12. Whole Agreement. This is the whole agreement between the parties.

Section 13. Amendment. Any amendment to this Agreement shall be in writing and signed by both parties.

Executed in Ukiah, California, on the date and year first written above.

Ukiah Valley Basin Groundwater Sustainability Agency

By: _____

Chair, Board of Directors

Ukiah Valley Groundwater Sustainability Agency

Date: _____

Landowner

By: Chase Thornhill

Name: Chase Thornhill

Date: 11/18/2020

APPROVED AS TO LEGAL FORM:

by:

Christian Curtis

01/05/2021

Christian Curtis, County Counsel

PROPERTY ACCESS

AND

DATA COLLECTION AND USE AGREEMENT

This Property Access and Data Collection and Use Agreement (the "Agreement") is made and entered into as of this ____ day of ____, 2021, by and between the Ukiah Valley Basin Groundwater Sustainability Agency (the "UVBGSA"), a public entity, and Millview County Water District, ("Landowner").

RECITALS

WHEREAS, the Sustainable Groundwater Management Act ("SGMA") requires that all groundwater basins designated as high and medium priority basins be managed by a Groundwater Sustainability Agency ("GSA"), and;

WHEREAS, the UVBGSA is the GSA for the Ukiah Valley Groundwater Basin ("Basin"), which have been designated by the Department of Water Resources (DWR) as a medium priority basin, and;

WHEREAS, the UVBGSA is required to develop and submit Groundwater Sustainability Plans to DWR by January 2022; and

WHEREAS, the UVBGSA, as part of the process to sustainably manage regional water resources, needs to collect data on, and monitor, groundwater levels in the Basin; and

WHEREAS, Landowner resides in the Basin and desires to cooperate in this sustainable groundwater management effort by allowing the Agency and its agents to enter Landowner's property to install and maintain groundwater monitoring equipment, and to remotely collect and use data from Landowner's well.

NOW THEREFORE, in consideration of the mutual covenants, undertakings and conditions set forth below, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

Section 1. The Property. Landowner is the owner of real properties located at 301 Carter Lane and 3017 Redemeyer Rd, APN No. (16913010 & 17803011), (the "Property"), including the well designated in the map attached as Attachment "A & B" (the "Well(s)").

Section 2. Grant of Access. Landowner grants the UVBGSA, and its contracted agents, vehicular and pedestrian access to, and across, the Property to the Well(s), as further delineated on the map attached as Attachment "A". Property access shall be limited to week days, between the hours of 8:00 a.m. and 5:00 p.m. pacific standard time.

Section 3. Limitations on Use. The Grant of Access set forth in Section 1 is for the sole purpose of monitoring groundwater at the Well, including installing, operating, maintaining and removing monitoring equipment from the Well. The UVBGSA, and its contracted agents, shall exercise reasonable care in accessing the Property so as not to damage the Property.

Section 4. Telephonic or Email Notice Prior to Access. The Agency, or its agents, shall provide 24-hours' notice to Landowner prior to accessing the Property. This notice may be given by telephone or through electronic mail, and shall include the contact information for the Agency's employee or agent that will be accessing the Property.

Section 5. Monitoring Equipment; Monitoring Techniques. The Agency, or its agents, will install, operate, and maintain a stainless steel transducer and water level transmitter at the Well. The transducer will be placed down the well below the static groundwater level. The transmitter unit will be placed above and connected to the transducer by a reader cable. Property access for one to two days will be required for the initial well assessment and installation of the monitoring equipment. The monitoring equipment will record hourly water level measurements and transmit a report to the Agency, or its agents, for remote monitoring. The Agency, or its agents, will access the Property to replace equipment batteries every two to three years, and will also access the Property for troubleshooting and maintenance issues as they arise.

Section 6. Use of Monitoring Data. The Agency, or its agents, will analyze the Monitoring Data collected at the Well, along with data from other monitored wells, to track groundwater levels, understand the relationship between surface water and groundwater, improve the accuracy and reliability of relevant water resource models, and inform the Agency's development of the basins' Groundwater Sustainability Plan. Monitoring Data will be available to the Agency, its agents, and Landowner through a secure online site.

Section 7. Data Disclosure. Data collected from the Property is subject to requests for public disclosure under the California Public Records Act (the "Act"). To the extent allowed by law, and consistent with the limitations of the Act and Water Code section 13752, the Agency shall endeavor to maintain the confidentiality of Landowner's information; however, such information could be accessed through a public records request. In such a case, the Agency shall notify Landowner. The Agency will provide the Landowner with an electronic link to access all data gathered by the Agency from the monitoring equipment placed on the Property.

Section 8. Removal of Equipment. The Agency, or its agents, shall remove the Monitoring Equipment from the Well and the Property at the conclusion of this Agreement.

Section 9. Hold Harmless. Landowner shall defend, indemnify and hold harmless the UVBGSA, its officers, agents, and employees, from any and all claims, liabilities, and losses whatsoever, occurring or resulting, or alleged to be occurring or resulting, to any and all persons, firms, or corporations, arising from or in connection with Landowner's activities under this Agreement, unless such claims, liabilities or losses arise out of the sole negligence or willful misconduct of the UVBGSA. The UVBGSA, shall defend, indemnify and hold harmless the Landowner and their officers, agents, and employees, from any and all claims, liabilities, and losses whatsoever, occurring or resulting, or alleged to be occurring or resulting, to any and all persons, firms, or corporations, arising from or in connection with UVBGSA's activities under this Agreement, unless such claims, liabilities or losses arise out of the sole negligence or willful misconduct of the Landowner. These obligations shall survive the expiration or termination of this Agreement.

Section 10. Termination. This Agreement shall terminate upon the receipt by one party of a written notice of termination from the other party. If monitoring equipment remains on the Property at the time a notice of termination is received, the parties shall reasonably schedule its removal by the Agency, or its agents.

Section 11. Notices. Excepting advance telephonic notice of Property access under Section 4, all notices and other communications required or permitted under this Agreement shall be in writing and shall be given to each party at its physical address or through an email address as set forth below, or at such other address that a party has most recently specified in written notice to the other party.

Ukiah Valley Basin Groundwater Sustainability Agency:

ATTN: Amber Fisette, Plan Manager
Ukiah Valley Basin Groundwater Sustainability Agency
340 Lake Mendocino Dr.
Ukiah, CA 95482
Tel: (707) 463-4363
Email: uvbgsa@mendocinocounty.org

Landowner: Millview County Water District

ATTN: Jared Walker, General Manager
Millview County Water District
151 Laws Avenue
Ukiah, CA 95482
Tel: [707-462-2666](tel:707-462-2666)
Email: jwalker@willowcwd.com

Section 12. Whole Agreement. This is the whole agreement between the parties.

Section 13. Amendment. Any amendment to this Agreement shall be in writing and signed by both parties.

Executed in Ukiah, California, on the date and year first written above.

IN WITNESS WHEREOF

UVBGSA FISCAL REVIEW:

UVBGSA BOARD CHAIR DATE

Budgeted: ☐ Yes ☐ No

Budget Unit: _____

Line Item: _____

Grant: ☐ Yes ☐ No

Grant No.: _____

CONTRACTOR/COMPANY NAME

By: 

Date: 2/10/21

NAME AND ADDRESS OF CONTRACTOR:

Jared Walker

151 Laws Ave

Ukiah, CA 95482

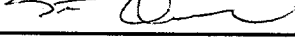
INSURANCE REVIEW:

By: 
Risk Management

Date: 2/9/2021

By signing above, signatory warrants and represents that he/she executed this Agreement in his/her authorized capacity and that by his/her signature on this Agreement, he/she or the entity upon behalf of which he/she acted, executed this Agreement

EXECUTIVE OFFICE/FISCAL REVIEW:

By: 
Deputy CEO

Date: 2/9/2021

COUNTY COUNSEL REVIEW:

APPROVED AS TO FORM:

CHRISTIAN M. CURTIS,
County Counsel

By: 
Deputy

Date: February 8, 2021

Signatory Authority: \$0-25,000 Department; \$25,001- 50,000 Purchasing Agent; \$50,001+ Board of Supervisors
Exception to Bid Process Required/Completed ☐ _____
Mendocino County Business License: Valid ☐ _____
Exempt Pursuant to MCC Section: _____

Exhibit A

Premise(s) Description

Premise #1

APN: 16913010

Landowner Name: Millview County Water District

Latitude: 39.19177

Longitude: -123.1999

Distance from mapped landmarks: 0.07 miles southeast of Riverview Dr., 0.02 miles east of Carter Lane.

Shown in Exhibit A-1 for reference

Premise #2

APN: 17803011

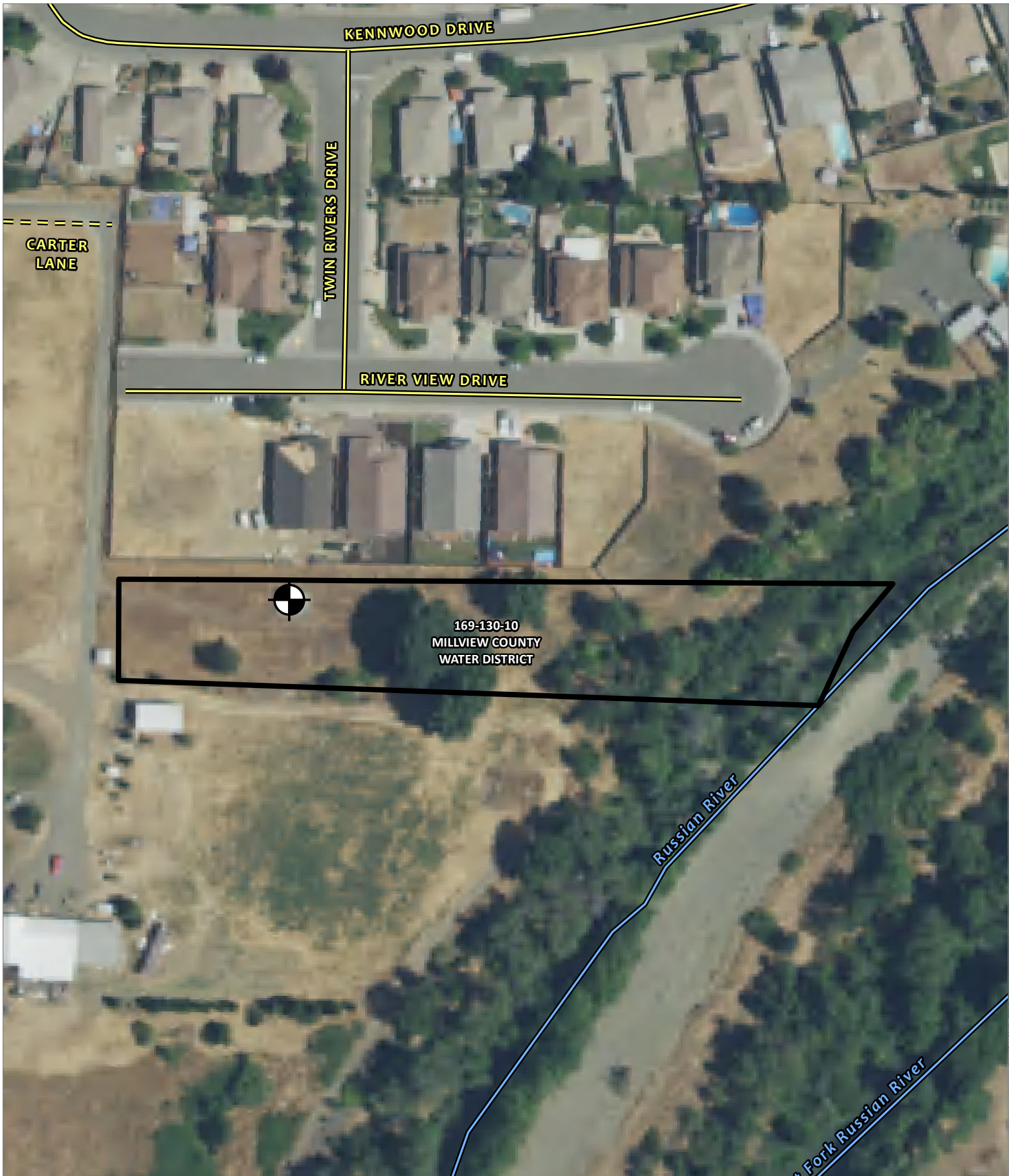
Landowner Name: Millview County Water District

Latitude: 39.18828,

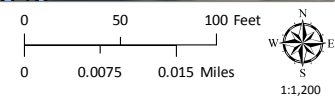
Longitude: -123.19764

Distance from mapped landmarks: .35 miles west of Redemeyer Rd, bordering east bank of the Russian River; 0.05 miles northeast of the end of Hollow Tree Rd.

Shown in Exhibit A-2 for reference



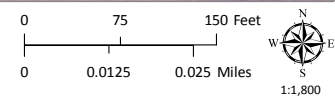
- Public Roads
- Named Rivers
- Monitoring Wells



AERIAL IMAGERY



- Named Rivers
- Monitoring Wells



AERIAL IMAGERY

MENDOCINO COUNTY PLANNING DEPARTMENT - 12/8/2020



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

Item No.:	3.f
Date:	2/11/21
To:	Board of Directors
Subject:	Discussion and Possible Action to Approve the Updated Ukiah Valley Basin Groundwater Sustainability Agency Communication and Engagement Plan
Consent Agenda <input type="checkbox"/> Regular Agenda <input checked="" type="checkbox"/> Noticed Public Hearing <input type="checkbox"/>	

Summary:

The Board will review the updated Communication and Engagement Plan developed to promote the efficient and effective coordination of internal/external communications and stakeholder engagement in the Ukiah Valley Basin Groundwater Sustainability Agency (UVBGS) effort to develop a Groundwater Sustainability Plan (GSP) and reflects the new communication protocol adapted during the ongoing COVID-19 crisis.

Recommended Action:

Adopt the Updated Ukiah Valley Basin Groundwater Sustainability Agency Communication and Engagement Plan.

Background:

Due to the ongoing Covid-19 crisis the currently adopted Communication and Engagement Plan needed revision as many of the public engagement activities as approved were not appropriate. A plan is a required deliverable for the GSP and Department of Water Resources Proposition 1 grant.

Fiscal Summary: N/A

Action: _____

Motion: _____ **2nd:** _____

F E B R U A R Y 2 0 2 1

Ukiah Valley Basin Groundwater Sustainability
Agency

Communication and Engagement Plan

Prepared by:

LARRY WALKER ASSOCIATES

GEI CONSULTANTS

SCI CONSULTING GROUP

UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION



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GSP Communications Plan

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GSP Communications Plan

Introduction

This Project Communication Plan (CommPlan) is developed to promote the efficient and effective coordination of internal/external communications and stakeholder engagement in the Ukiah Valley Basin Groundwater Sustainability Agency (UVBGSA) effort to develop a Groundwater Sustainability Plan (GSP). The CommPlan will serve as the primary guideline for addressing the requirements outlined in Department of Water Resources (DWR) Groundwater Sustainability Plans (GSP) Regulations Section § 354.10:

“Each Plan shall include a summary of information relating to notification and communication by the Agency with other agencies and interested parties including the following:

- (a) A description of the beneficial uses and users of groundwater in the basin, including the land uses and property interests potentially affected by the use of groundwater in the basin, the types of parties representing those interests, and the nature of consultation with those parties.*
- (b) A list of public meetings at which the Plan was discussed or considered by the Agency.*
- (c) Comments regarding the Plan received by the Agency and a summary of any responses by the Agency.*
- (d) A communication section of the Plan that includes the following:*
 - (1) An explanation of the Agency’s decision-making process.*
 - (2) Identification of opportunities for public engagement and a discussion of how public input and response will be used.*
 - (3) A description of how the Agency encourages the active involvement of diverse social, cultural, and economic elements of the population within the basin.*
 - (4) The method the Agency shall follow to inform the public about progress implementing the Plan, including the status of projects and actions.”*

The CommPlan serves as the communication and engagement plan for the Ukiah Valley Basin (UVB) GSP and is developed in response to the following requirement of the DWR evaluation criterion in GSP Regulations Section § 355.4.b.(4):

“Whether the interests of the beneficial uses and users of groundwater in the basin, and the land uses and property interests potentially affected by the use of groundwater in the basin, have been considered.”

The CommPlan will be updated as needed throughout the project term. This will ensure that up-to-date information related to project communication is contained in the CommPlan. The CommPlan will be executed by members of the UVBGSA through the lifetime of the GSP. The UVBGSA will communicate GSP updates through the [UVBGSA page](#) on the County of Mendocino website, the County of Mendocino social media channels and periodic public meetings. This CommPlan will serve as a repository for all mailing lists, outreach and engagement activities and stakeholder communications.

GSP Communications Plan

Project Organization

The Ukiah Valley Basin GSP is being developed for the Ukiah Valley Basin Groundwater Sustainability Agency (UVBGSa). Larry Walker Associates, Inc. in collaboration with GEI Consultants, University of California Cooperative Extension (UCCE), and SCI Consulting Group (LWA Team) are responsible for the development of the GSP at the direction of the UVBGSa. The UVBGSa Board of Directors (the Board) is shown in **Table 1**. The Board acts as the GSP's overall Project Management Team (PMT) and is scheduled to meet on the second Thursday of every month at 1:30 PM in the Mendocino County Board of Supervisors Chambers. All meetings are open to the public with notices, agendas, and minutes posted on Mendocino County's (County) [website](https://www.mendocinocounty.org/government/affiliated-agencies/ukiah-valley-basin-gsa)¹.

Public engagement is encouraged at the Board's meetings and an e-Notification² capability will be offered by the County to reinforce this purpose for interested parties. Draft deliverables, draft GSP chapters and other important development milestones are scheduled to be discussed at the scheduled Board meetings in order to promote transparency regarding the decision-making process.

Table 1. UVBGSa Board of Directors.

Member Agency	Director	Alternate Director
County of Mendocino	Glenn McGourty	Maureen Mulhern
City of Ukiah	Douglas F. Crane	
Russian River Flood Control	Alfred White	John Reardan
Upper Russian River Water Agency	James Green	Ken Todd
Tribal Seat	Vacant	
Agricultural Seat	Zachary Robinson	Levi Paulin

CONSULTANT TEAM

As mentioned above, the consultant team is led by Larry Walker Associates, Inc. in collaboration with GEI Consultants, UCCE, and SCI Consulting Group. Dr. Laura Foglia, LWA Project Manager (PM), will serve as the primary point of contact for the LWA Team, providing clear, consistent, and effective communication with the PMT and the County.

TECHNICAL ADVISORY COMMITTEE (TAC)

UVBGSa has convened a TAC to provide input and recommendations on the technical aspects of the GSP development process. TAC members and the represented agencies are shown in **Table 2**. TAC meetings are scheduled at a similar frequency to the Board's meetings, on the second Wednesday of every month, at 1:00 PM. All meetings are open to the public with notices,

¹ <https://www.mendocinocounty.org/government/affiliated-agencies/ukiah-valley-basin-gsa>

² <https://www.mendocinocounty.org/community/enotification>

GSP Communications Plan

agendas, and minutes posted on Mendocino County's (County) [website](#)³. Subscribers to the e-notification system will be notified automatically for the TAC meetings.

Table 2. UVB TAC members.

Member Agency	Member
County of Mendocino	James Linderman
City of Ukiah	Sean White
Upper Russian River Water Agency	Ken Todd
Russian River Flood Control	Elizabeth Salomone
Sonoma County Water Agency	Don Seymour
Mendocino County Resource Conservation District	Mike Webster
California Land Stewardship Institute	Laurel Marcus
Tribal Representative	Javier Silva
Agricultural Representative	Levi Paulin

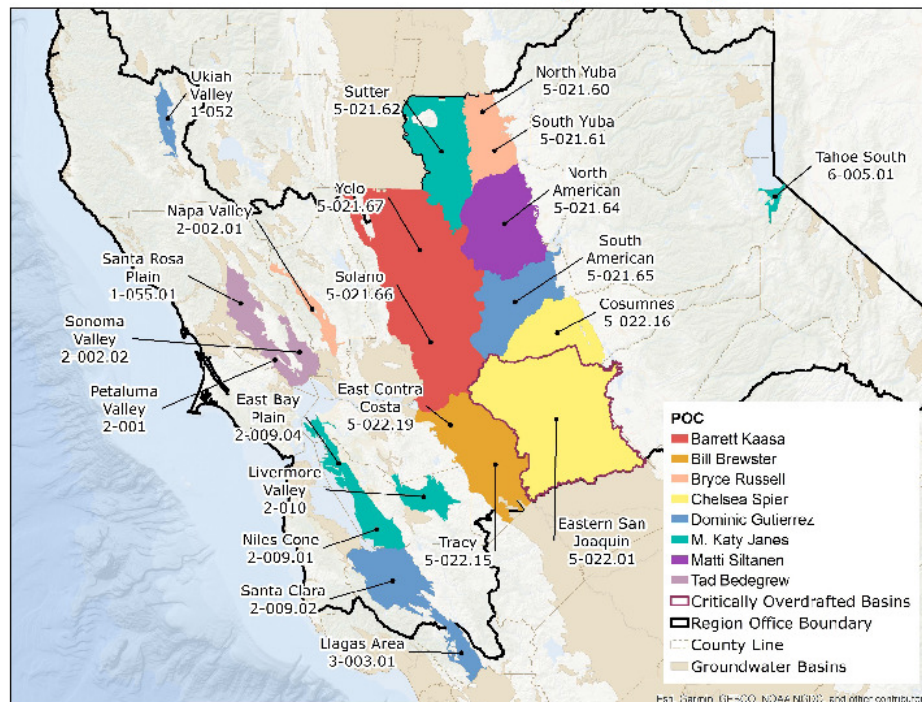
DEPARTMENT OF WATER RESOURCES (DWR) POINT OF CONTACT

All high and medium priority groundwater basins in California are assigned a Point of Contact (POC) from the DWR Region Offices. POCs assist GSAs and stakeholders in the basin to connect with the statewide Sustainable Groundwater Management Program and to locate resources for assistance. Mr. Dominic Gutierrez from the Division of Integrated Regional Water Management of the DWR North Central Region Office is the POC for this GSP and can be reached via email at: Dominic.Gutierrez@water.ca.gov. POC information for the Regional Office corresponding to the UVB GSP is shown below in Figure 1.

³ <https://www.mendocinocounty.org/government/affiliated-agencies/ukiah-valley-basin-gsa/technical-advisory-committee/tac-agenda-and-materials>

North Central Region Office

SGMA Points of Contact – Subject to Change



This map illustrates the Point of Contact (POC) for each listed groundwater basin. DWR has POCs for your use when contacting DWR with questions related to SGMA. If a groundwater basin of interest is not listed on the map or table below, and you have questions, please email SGMP_RC@water.ca.gov. POCs will get back to you during regular business hours as soon as possible. This map is current as of October 2020 and subject to change.



POC	Email	Phone	Basin(s)
Barrett Kaasa	Barrett.Kaasa@water.ca.gov	916-376-9618	Sacramento Valley – [Solano (5-021.66), Yolo (5-021.67)]
Bill Brewster	Bill.Brewster@water.ca.gov	916-376-9657	San Joaquin Valley – [Tracy (5-022.15), East Contra Costa (5-022.19)]
Bryce Russell	Bryce.Russell@water.ca.gov	916-376-9620	Napa-Sonoma Valley - Napa Valley (2-002.01), Sacramento Valley – [North Yuba (5-021.60), South Yuba (5-021.61)]
Chelsea Spier	Chelsea.Spier@water.ca.gov	916-376-9656	San Joaquin Valley – [Eastern San Joaquin (5-022.01), Cosumnes (5-022.16)]
Dominic Gutierrez	Dominic.Gutierrez@water.ca.gov	916-376-9626	Ukiah Valley (1-052), Santa Clara Valley - Santa Clara (2-009.02), Gilroy-Hollister Valley - Llagas Area (3-003.01), Sacramento Valley - South American (5-021.65)
M. Katy Janes	Margaret.Janes@water.ca.gov	916-376-9607	Livermore Valley (2-010), Santa Clara Valley – [East Bay Plain (2-009.04), Niles Cone (2-009.01)], Tahoe Valley - Tahoe South (6-005.01), Sacramento Valley - Sutter (5-021.62)
Matti Siltanen	Matti.Siltanen@water.ca.gov	916-376-9631	Sacramento Valley - North American (5-021.64)
Tad Bedegrew	Tad.Bedegrew@water.ca.gov	916-376-9619	Petaluma Valley (2-001), Napa-Sonoma Valley - Sonoma Valley (2-002.02), Santa Rosa Valley - Santa Rosa Plain (1-055.01)



Figure 1. DWR Point of Contacts

GSP Communications Plan

Goals and Desired Outcomes

In August 2014, the California Legislature passed the Sustainable Groundwater Management Act (SGMA), which went into effect January 1, 2015. SGMA, a package of three bills (AB 1739 Dickinson, SB 1168 Pavley, and SB 1319 Pavley), requires the long-term and sustainable management of groundwater resources and places this responsibility on local authorities. Groundwater Sustainability Agencies (GSAs) were required to be formed by June 30, 2017 as the responsible authorities for developing GSPs and achieving SGMA's implementation goals and mandates.

The key objective of the Ukiah Valley Basin GSP will be to address groundwater sustainability by designing strategies that avoid and prevent undesirable results to regional groundwater resources over the next 20 years, and beyond. Because SGMA requires local stakeholders and beneficial users to be part of the GSP planning and implementation process, the UVBGSA will identify and engage stakeholders to integrate their input into the decision-making, coordination, and management processes. Specific processes are not outlined for the consideration of these interests in the legislation and it is upon the UVBGSA to define such processes. However, SGMA specifically requires public meetings to be held during the GSP development and implementation when:

- When the GSA intends to adopt or amend a GSP (CA Water Code Section § 10728.4);
- Prior the GSA imposing or increasing a fee (CA Water Code Section § 10730.(b)(1))

In order to meet these requirements, UVBGSA is implementing an adaptive management strategy as explained in detail in the sections below. This strategy contains three phases: (1) planning, (2) implementation, and (3) evaluation/response, and is intended to work fundamentally as described in the Community Water Center whitepaper⁴ on this topic. For the planning phase, this CommPlan will serve as the document for communication and engagement in the GSP development and will be updated as necessary. For the implementation phase, the methods and strategies to be used are described in the **Communications Strategy Section**. Finally, for the third phase, the **Evaluation and Assessment Section** identifies questions to assess the effectiveness of the C&E plan and to deliver effective and comprehensive responses.

UVBGSA AND UVB GSP

In May 2017, UVBGSA was created to by a Joint Powers Agreement (JPA) to serve as the official GSA for the UVB to comply with SGMA. Under the agreement, the UVBGSA shall take actions deemed necessary to ensure sustainable management of the UVB, as required by SGMA⁵.

The UVBGSA consists of a variety of local public agencies with water supply, water management and land use responsibilities. These include the County of Mendocino, the City of

⁴ Dobbin, K., Clary, J., Firestone, L., Christian-Smit, J. (2015), "Collaborating for Success: Stakeholder Engagement for Sustainable Groundwater Management Act Implementation." Prepared by community water center.

⁵ Resolution of the election of the UVBGSA can be found here:
<https://sgma.water.ca.gov/portal/service/gsadocument/download/3980>
JPA forming the UVBGSA can be found here:
<https://sgma.water.ca.gov/portal/service/gsadocument/download/4159>

GSP Communications Plan

Ukiah, the Upper Russian River Water Agency, and the Russian River Flood Control and Water Conservation and Improvement District. The boundaries of these agencies are shown in Error! Reference source not found.. The County of Mendocino exercises land use authority on the land overlying the basin. The City of Ukiah is a local municipality that exercises water supply, water management and land use authority within the City's boundaries. The Upper Russian River Water Agency is a JPA representing Millview County Water District, Willow County Water District, Calpella County Water District, and Redwood Valley Water District. The County Water Districts have water supply and water management responsibilities within the UVB. The Russian River Flood Control and Water Conservation and Improvement District is a special district created by State statute (State of California Statute, Act 4830). The District exercises water supply and water management authority within the UVB.

The UVBGSA Board also includes a tribal representative and an agricultural representative, as noted in **Table 1**. Representation by these stakeholder groups on the Board of Directors was a decision made by the members of the JPA.

In accordance with SGMA priorities established by DWR, the UVBGSA must develop and submit its GSP by January 31, 2022; the plan must include actions to maintain or achieve sustainability within twenty years of the GSP's adoption. The information contained in the GSP will comprehensively characterize the conditions in the UVB, determine strategies for sustainably managing groundwater resources, satisfy the requirements of SGMA, be consistent with Emergency Regulations and guidance prepared by DWR, be implementable by stakeholders of the UVB, and describe monitoring and reporting to DWR. Moreover, in order to reach the best outcome for the GSA and local stakeholders, and to satisfy SGMA requirements, all beneficial uses and the interests of beneficial users of groundwater must be considered through the active involvement of local stakeholders.

GSP Communications Plan

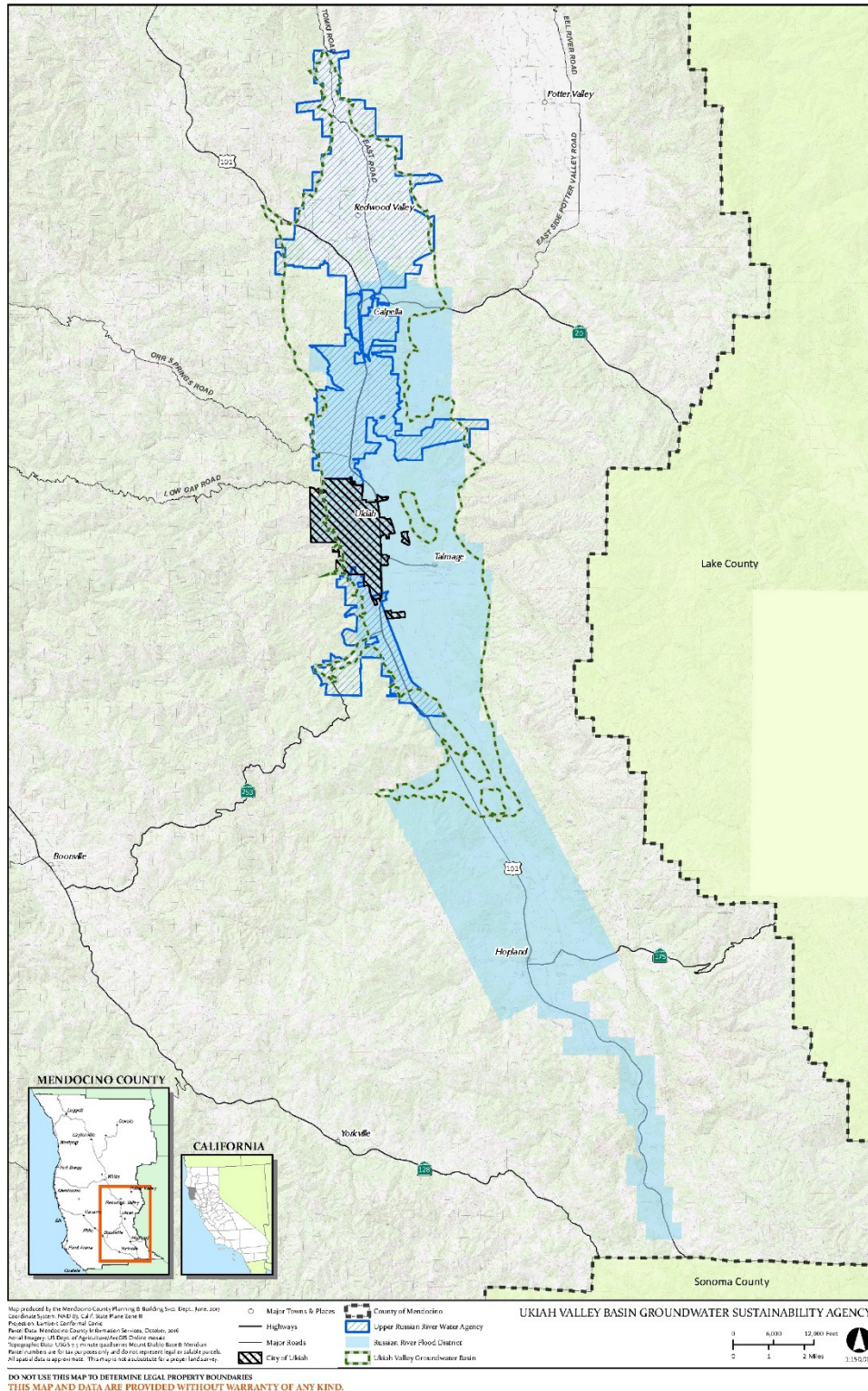


Figure 2. UVBGS JPA members and their respective boundaries.

GSP Communications Plan

UVBGSA DECISION-MAKING PROCESS

The general voting procedure of the UVBGSA is outlined in the JPA. Each member of the Board has one vote. Unless otherwise specified, all affirmative decisions of the Board require the affirmative vote of a simple majority of all the Board's Directors participating in voting, provided that, if a Director is disqualified from voting on a matter before the Board because of a conflict of interest, that Director shall be excluded from the calculation of the total number of Directors that constitute a majority. The Board of Directors shall strive for consensus of all members on all items.

With respect to GSP development, the above-mentioned procedure will be used for all subjects that require Board's action. Since the beginning of this GSP development, discussions and/or presentations have been conducted in the TAC and Board public meetings to facilitate input from stakeholders and interested parties. Key documents have been made available in advance of meeting on either the County's website or via the C&E Tool, whichever was determined appropriate, as a working draft document. Comments made by the TAC, the Board, or by the public have been addressed in a reasonable timeline (if possible, by the next public meeting) and the final draft of the deliverable has been presented and an action taken by the Board in the next scheduled meeting. During all public meetings, time-limited opportunities have been offered to the public to comment on all public agenda items. In addition, an opportunity for public comment on items not on the agenda was provided.

The LWA Team, the Board, and the TAC have come up with a preferred method of communication with regards to GSP deliverables and additional matters that need the Board's approval and/or the TAC's involvement and direction. As a soft arrangement, meaning the timeline can be adjusted respective to the task in hand, the LWA Team will provide a month for the TAC to review a document or elaborate on a subject that is scheduled to be acted upon in the upcoming meeting. GSA Board will be provided with at least two weeks advance time before an official review/presentation of a document for approval at a Board meeting. As explained, all efforts will be made so that discussions and/or presentations are conducted in the TAC and Board public meetings to facilitate input from stakeholders and interested parties. In addition, key documents will be available in advance on County's [website](#), whichever appropriate, as a working draft document. Comments made by the TAC, the Board, or by the public will be addressed in a reasonable timeline (if possible up to the next public meeting) and the final draft of the deliverable will be presented and action taken by the Board in the next scheduled meeting. This procedure is illustrated in Figure 3.

During all public meetings, time constrained opportunities will be offered for the public to comment on all public agenda items. In addition, an opportunity for public comment on items not on the agenda will be provided.

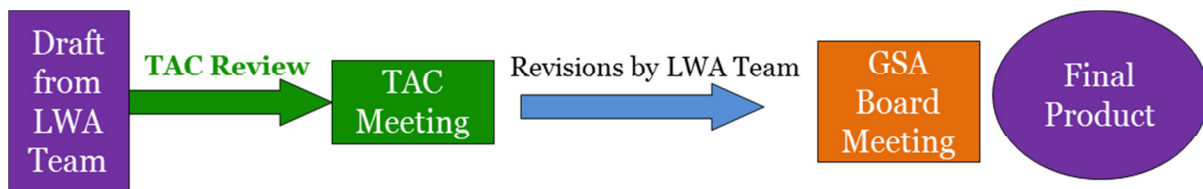


Figure 3. General review process of deliverables.

GSP Communications Plan

COMMUNICATION OBJECTIVES TO SUPPORT THE GSP

The UVBGSA will strive to build broad support for key elements of the GSP and will facilitate the effective engagement of stakeholders and beneficial users of groundwater to achieve the best outcome for its GSP. The following are the guiding principles of the GSP communication strategy:

- **Inform** the **public** with balanced information to assist them in understanding the issues to be addressed, alternative management measures, opportunities, and/or solutions.
- **Consult** with the **public** by obtaining feedback and public comments on analyses and decisions. UVBGSA will encourage the public to be involved in the decision-making process since they are affected by the GSP and can influence the outcome.
- **Involve beneficial users** and work with them throughout the process to ensure that their concerns, aspirations, and their overall input is understood and considered.
- **Collaborate** with **stakeholders** in the decision-making process including the development of management alternatives and identification of preferred solutions.
- **Empower** the members of the **GSA** by fully considering their priorities and sufficiently implementing them in the GSP.
- **Inform all engaged** on how their input affected the decision.
- Ensure process integrity and transparency.
- Utilize facilitation and outreach methods that minimize the cost and environmental impacts of travel.
- Leverage available technological platforms to increase collaboration and efficiency.
- Maintain appropriate alignment between engagement, content development, and project management.

Details of the methods and strategies used to accomplish these objectives are laid out in the following sections.

OVERRIDING CONCERNS, MAJOR CONCERNS OR CHALLENGES

A challenge in developing and implementing the GSP is the time constraint that may limit the capability to build relationships and underlying trust between all sectors of the public involved and/or affected by the GSP. UVBGSA made the necessary efforts through several public meetings, adequate outreach and notices, and involving major beneficial users in its board of directors during the formation of the GSA. The GSP development process brings about new challenges that will need broader involvement and trust to be established. Conflicting interests on the use of the shared resources may arise that can only be resolved through an effective decision-making process. It is also possible that needs and interests of particular stakeholders may change throughout the development process, complicating the dynamics of the planning process. The CommPlan and its thorough implementation will assist the UVBGSA in overcoming these types of challenges.

In addition, public outreach and stakeholder engagement takes time and resources to be done well. This can become a significant challenge since both the time and the resources available to the UVBGSA are limited. However, the Board believes that its planned strategies and venues of engagement will enable its communication and engagement efforts to be effective. The Board is confident that a balanced and effective investment in effective communication and engagement

GSP Communications Plan

will lead to improved outcomes, optimized resources, broad support, and reduced conflicts, which subsequently outweighs its respective cost.

Stakeholders Involved in the Project

SGMA (CA Water Code Section § 10723.2) and GSP Regulations Section § 354.10.(a) collectively require the UVBGSA to consider interests of all beneficial uses and users of groundwater basin and provide a description of those users and uses, the types of parties representing those interests, and the nature of consultation with those parties. **Table 3** summarizes the list of stakeholders identified by the UVBGSA. This list will be updated as necessary.

Table 3. Identified stakeholders and interested parties for the UVB.

Category of Interest	Stakeholder Groups	Contact Person
UVBGSA Board of Directors		
Land Use	County of Mendocino	Glenn McGourty
Land Use/Urban Use	City of Ukiah	Douglas F. Crane
Integrated Water Management	Russian River Flood Control	Alfred White
Urban Use	Upper Russian River Water Agency	James Green
California Native American tribes	Tribal Seat	Vacant
Agricultural Use/ Private Users	Agricultural Seat	Zachary Robinson
UVB TAC Members		
Land Use	County of Mendocino	James Linderman
Land Use/Urban Use	City of Ukiah	Sean White
Urban Use	Upper Russian River Water Agency	Ken Todd
Integrated Water Management	Russian River Flood Control	Elizabeth Salomone
Land Use	Sonoma County Water Agency	Don Seymour
Urban/ Agricultural Use	Mendocino County Resource Conservation District	Mike Webster
General Public/Land Use	California Land Stewardship Institute	Laurel Marcus
California Native American tribes	Tribal Representative	Javier Silva
Agricultural Use/ Private Users	Agricultural Representative	Levi Paulin
Public Water Systems		
Urban Use	Redwood Valley County Water District Millview County Water District	

GSP Communications Plan

Category of Interest	Stakeholder Groups	Contact Person
	Willow County Water District Calpella County Water District	
Private Water Companies		
Urban Use	City of 10,000 Buddha's Rogina Water Company Yokayo Water Systems	
California Native American Tribes		
California Native American tribes	Redwood Valley Rancheria Coyote Valley Reservation Pinoleville Pomo Nation Potter Valley Rancheria Guidiville Rancheria Hopland Reservation	Tribal Representative on UVBGSA and the TAC
Agriculture		
Agricultural Use	Mendocino County Farm Bureau Mendocino County Wine Growers Association Pear Growers Cannabis Cultivation	Devon Jones Agricultural Representative on UVBGSA and the TAC
State Entities		
Environmental and Ecosystem	UC Davis Cooperative Extension	
State Lands	Department of Water Resources (DWR)	
State Lands/Environmental and Ecosystem	North Coast Regional Water Quality Control Board	
State Lands/Environmental and Ecosystem	California Department of Fish and Wildlife (CDFW)	
Federal Entities		
Federal Lands/Environmental and Ecosystem/Integrated Water Management	US Army Corps of Engineers	
Federal Lands/Environmental and Ecosystem	US Fish and Wildlife Service (USFWS)	
Environmental and Ecosystem	NOAA Fisheries	
Environmental and Ecosystem	Forest Service	
UVB Residents		
General Public	Public	

GSP Communications Plan

Category of Interest	Stakeholder Groups	Contact Person
	Disadvantaged Communities	
	Citizen Groups	

METHODS FOR PROMOTING ACTIVE STAKEHOLDER INVOLVEMENT

As UVBGSA moves towards developing its GSP, it will initially focus on stakeholder identification and assessment. The LWA Team will conduct stakeholder interviews at the outset of the planning effort to understand the interests, concerns, opportunities, and resources that exist in the stakeholder community. During the GSP development process, the Board will evolve its outreach efforts by identifying additional stakeholders, understanding their interests and concerns, and providing a transparent and responsive communication venue for their engagement. This will happen through the following approach:

- Develop and maintain an updated interested parties' list through UVBGSA stakeholder identification and outreach, voluntary subscription, and e-notification system.
- Conduct interviews with key stakeholders at the outset of the GSP planning effort.
- Hold regular public meetings of the UVBGSA Board and the TAC, encouraging public participation through County [website](#). Convene a collaborative decision-making process through public meetings with the goal of building a shared understanding and reducing conflicts. This will provide an additional venue for interested parties to get involved in the more technical side of development and implementation of GSP.
- Provide alternative opportunities for stakeholders or interested parties that face more barriers to participation such as holding interviews with the LWA Team, translated materials, evening meetings, etc.
- Use the UVBGSA [website](#) to provide increased access to data and information in a user-friendly form. Provide emails/newsletters to interested parties updating them on newly developed documents or information and seeking their participation and/or comments.

Methods outlined above will help UVBGSA conduct the implementation phase of its adaptive management strategy.

USE OF PUBLIC INPUT AND RESPONSE

The Board's success in implementing their adaptive management strategy will depend, in part, on how it responds to public input. Moreover, a recognizable employment of the public input boosts engagement and increases the trust in the process and plan. The UVBGSA will respond to constructive public comments and concerns and demonstrate how they shaped the outcome at hand. Efforts will include:

- Making draft deliverables provided for the TAC or the UVBGSA review available to the public to materialize a more fruitful public discussion during the public meetings scheduled for deciding on those deliverables.
- Publishing Board-approved draft final GSP Chapters for public comment with reasonable commenting periods. If necessary, responses to comments will be published to elaborate on how they were implemented or considered in revising the documents.

GSP Communications Plan

- Continued implementation of the methods for promoting active engagement of the public with a focus on obtaining comments and responding to concerns.

At key C&E milestones described in the C&E Implementation Timeline Section, UVBGSA evaluated the effectiveness of its communication strategy by answering the following questions:

- Is there a shared understanding of the GSP's goals and its implementation timeline?
- Are stakeholders educated about the GSP development process and their own role?
- Has the GSA received positive press coverage?
- Do diverse stakeholders feel included?
- Has there been behavioral changes related to the program goals? Or, is improved trust/relationships in evidence among participants?
- Has the CommPlan been implemented and updated?
- Has the interested parties' list been expanded?
- Have there been well-attended and robust public hearings at all of the necessary junctures?
- Are all established venues for stakeholders open and effective?
- Are there formal mechanisms to assess outcomes and make improvements?

Reviewing these results helped identify the strengths and weaknesses of the communication strategy and how to improve it.

Communications Strategy

As explained in the previous sections, UVBGSA will use a multitude of communication methods to convey information and obtain input from stakeholders. The applicability of each method will depend on the goal of the intended communication. As a general rule of thumb, the communication strategy is divided into external and internal communications as explained below. UVBGSA will implement a comprehensive communication and engagement plan that meets SGMA requirements and will try to optimize its strategies in external and internal communications to maximize the end benefits.

INTERNAL COMMUNICATION

Internal communication is defined as any communication between and among the UVBGSA Board members, Mendocino County, the TAC or other convened committees, and the LWA Team that is necessary to keep the planning effort moving forward and to execute the scope of services articulated in the contract with the LWA Team. The Board, County, and the TAC will convey internal communications among their own members or with each other using their preferred methods such as emails, phone conversations, etc., consistent with applicable regulatory requirements. If a meeting is arranged between any combination of the three, notes will be taken and kept on record by an assigned member of the participants. The LWA Team will take and keep notes of the meetings with the Board and the TAC. These notes will be made available following the approval of the Board via the UVBGSA [website](#). The LWA Team will provide monthly progress reports to the Board.

GSP Communications Plan

EXTERNAL COMMUNICATION

External communication is defined as any communication of the UVBGSA, the TAC, the LWA Team, or any other committee with the public (which includes DWR POC). These communications may occur through emails and newsletters, public meetings, mailed flyers/brochures/advertisement, handouts, group interviews and radio broadcasts.

For all public meetings, including but not limited to regular Board and TAC meetings, agenda for the meeting is posted online on the County website and subscribers to the e-notification system are notified. An electronic flyer for the meeting is also included in the newsletter and interested parties are notified through their preferred contact method. Meeting minutes are recorded as the normal procedure of the Board and the TAC and will be posted afterwards on County website. In addition, the LWA Team keeps record of all its communication with external parties including group interviews. Those records will be available through appropriate procedures if approved by the Board.

Online and web-based resources including the County [website](#) and County Social Media outlets are regularly updated and utilized for informing the public of the project status, posting draft GSP Chapters, publishing notices, receiving comments, demonstrating how public input is being implemented, disclosing results and data, and sharing news and updates.

Public Meetings

All UVBGSA Board and TAC meetings are open to the public and designed to encourage input, discussion, and questions from public audience members. The minutes of UVBGSA Board and TAC meetings reflect the questions and comments raised by members and the general public. Currently scheduled public meetings are shown in **Table 4**. This schedule is subject to change as the GSP development process progresses and the GSP development schedule is updated (**Appendix A**). Meetings with the UVBGSA Board and the TAC are multi-purpose venues for public engagement and outreach. The LWA Team will provide progress reports at the meetings unless directed otherwise by the Board; presentations for the Board members or the TAC may be conducted to assist in the decision-making process or to provide for information to the public; public comments regarding scheduled and non-scheduled items will be received; and, actions will be taken and decisions will be made with regards to the GSP development and implementation.

Table 4. UVBGSA important meeting dates for GSP development process.

Date	Subject of Discussion at UVBGSA Meeting (1:30 PM)	Subject of Discussion at TAC Meeting (9:30 AM)
13 September 2018	Introduction Project Schedule	
8 November 2018	Communication Plan and Data Management Plan Needs Assessment	Data Gap Analysis Monitoring Network Analysis
14 February 2019	Communication Plan Data Management Plan Data Gap Analysis Monitoring Network Analysis	
16 April 2019		Phase I Deliverables

GSP Communications Plan

		Data Acquisition & Confidentiality Requirements
6 June 2019	Prop. 68 Solicitation Schedule	Hydrogeologic Conceptual Model TSS Application
15 October 2019	HCM Update Prop 68 Update TSS Update	DMS Draft Deliver Draft HCM Commenting and Review Prop 68 Update, TSS Update
9 January 2020	Groundwater Model Ch.2 GSP Update	Sustainable Management Criteria Measurable Objectives, TSS Update, TAC Meetings Moved to day before Board Meets
12 March 2020	Sustainable Management Criteria Measurable Objectives	Sustainable Goal Development Water Quality SMC Survey Review
13 May 2020		Preliminary SW/GW SMC Historical GW Elevation Trends
10 September 2020	Monitoring Network Future Scenarios PVP Updates SW GW Interaction Results Water Budget WQ SMC Delivery	Future Scenarios Current and Baseline Water Budget Remote Monitoring Studies
14 October 2020		SMC Development GW Decline and SW Depletion Well Instrumentation
12 November 2020		SMC MT/MO Development Model Results
13 January 2021		Model Results ISW/GDE Discussions
11 February 2021	Draft SMC's Approved	SMC Discussion
11 March 2021	Final GSP Implementation Plan	Draft GSP Monitoring Network Finalized
8 April 2021	Final GSP Implementation Plan	Draft GSP
13 May 2021	Final GSP Draft/ GSP Submittal	Draft GSP
10 June 2021	Final GSP Draft/ GSP Submittal	Draft GSP

Table 5. UVBGSA Public Meeting Dates

Date	Subject of Discussion at Public Meeting
29 September 2020	Introduction of UVBGSA and GSP Project Schedule, Implementation Plan, Schedule for Future Public Meetings Venues for Engagement
23 February 2021	Draft GSP Public Comment SMC and Potter Valley Project Presentation

GSP Communications Plan

20 April 2021	Draft GSP Public Comment
25 May 2021	Draft GSP Public Comment
22 June 2021	Draft GSP Public Comment

If determined essential by the Board, additional public meetings may be scheduled to further distribute the information to the public at specified locations and times. These meetings will be appropriately advertised through the County [website](#), emails and newsletters, interested party list subscribers, and postal mail or flyers.

Stakeholder Survey and Mapping

At the outset of the GSP development effort, the LWA Team will convene meetings with identified key stakeholders to gather important information using a survey form tailored to the UVB GSP effort.

The LWA Team will contact representatives for the key stakeholder organizations to learn more about them, describe the GSP development process, and will invite them to engage in the process. Prior to these meetings. The LWA Team will develop background information, maps, and a stakeholder survey form. Follow up communications may be made to answer questions that come up or to better understand stakeholder interests, issues, and challenges.

After the stakeholder surveys are completed, the LWA team will compile the information received in a “Lay of the Land” document. This document will summarize information received from stakeholders regarding initial concerns/issues, interests, challenges, preferred methods of communication, and desired level of engagement.

Venues for Engaging

To achieve the goals and objectives of the CommPlan, the UVBGSA will utilize multiple outreach venues as well as broader communication tools. This will allow stakeholder engagement at different levels best suited to stakeholder needs. The Board will use these venues to provide regular feedback and updates and to receive comments. Due to the ongoing COVID-19 pandemic and in accordance with County and State health orders, these venues will be hosted virtually until new incidences of COVID-19 are reduced to a safe level within the county and we are able to return to in person meetings. These venues are discussed in previous sections and are listed below:

- Public meetings of the Board and Advisory Committees: for all interested parties. Advertised and announced through appropriate means such as email newsletters, interested parties subscription lists, e-notification system, flyers and banners, etc.
- Stakeholder interviews and/or work group meetings
- Community or regional forums: conducted on as needed basis by the UVBGSA, the LWA Team, or appropriate public agencies identified by the Board.
- Public workshops/briefings: Conducted if deemed necessary by the Board with the help of the LWA Team, DWR, and/or other appropriate public agencies for information sharing and receipt of input.

GSP Communications Plan

- Digital venues: County [website](#) and Zoom Meetings will be used as the main online resources for conducting and tracking engagement and outreach activities. Emails and newsletters will be delivered to the interested parties' list and subscribers. Available social media outlets will be used as needed.
- Mailing services: provided on as needed basis and may include one or a combination of informational brochures, advertisement, flyers, handouts, etc.

After the COVID-19 pandemic started, in accordance with County and State health orders, the venues were hosted virtually until new incidences of COVID-19 were reduced to a safe level within the county and people could return to in person meetings.

C&E IMPLEMENTATION TIMELINE

Implementation of the C&E Plan (CommPlan) will follow the timeline shown in Error! Reference source not found.. The implementation timeline is subject to periodic update and change dependent on the status of the project and the GSP development schedule (**Appendix A**).

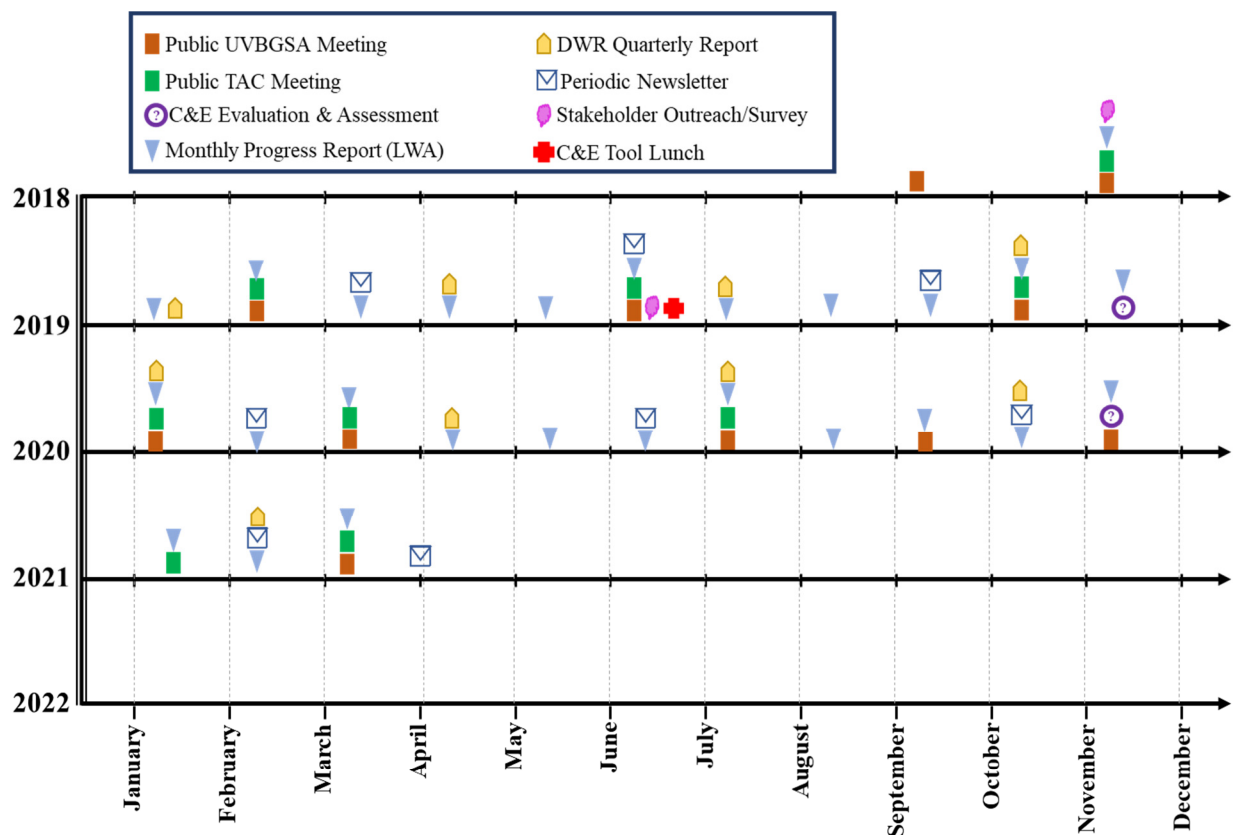


Figure 4. C&E implementation timeline.

GSP Communications Plan

Evaluation and Assessment

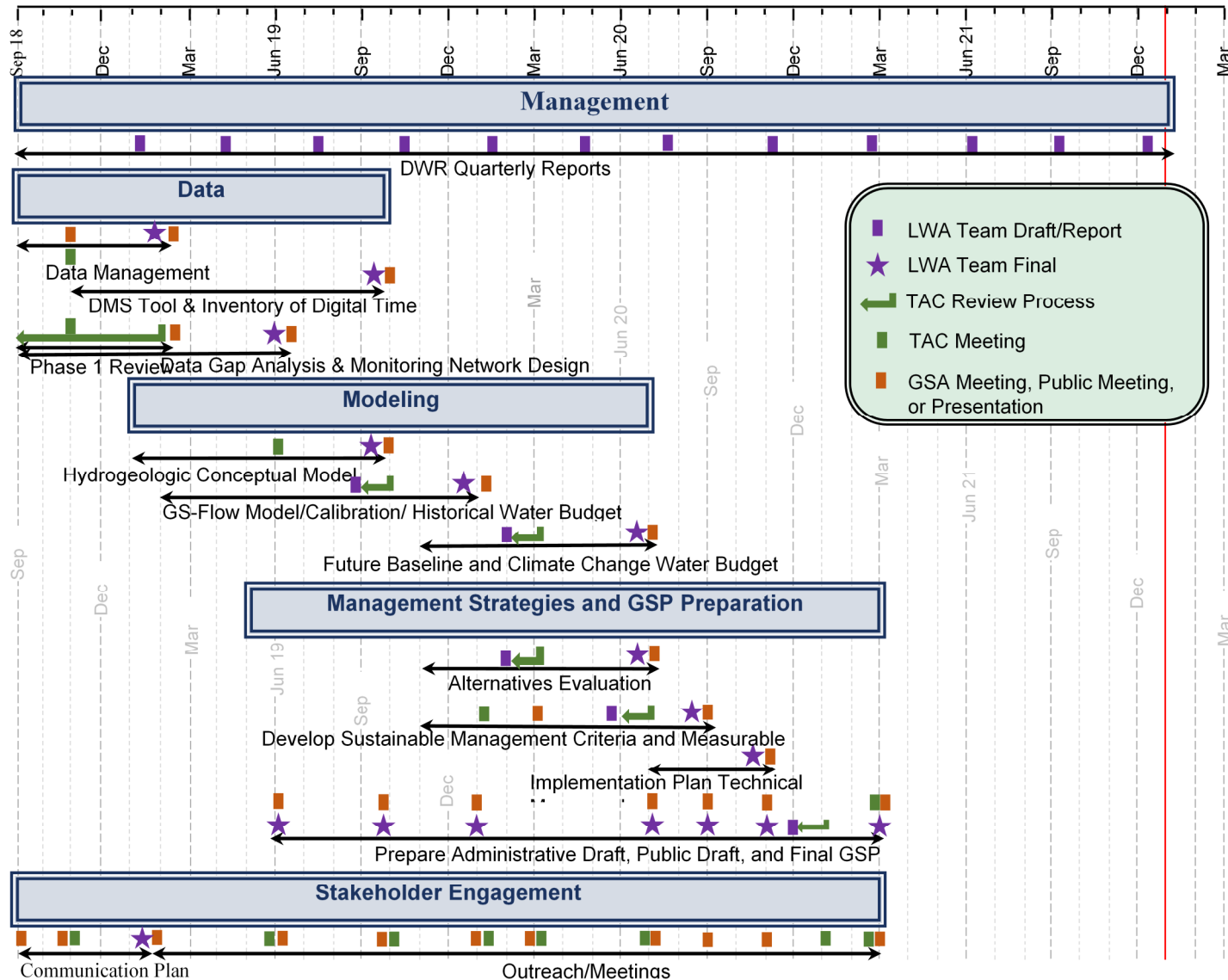
At key C&E milestones laid out in the **C&E Implementation Timeline Section**, the UVBGSA will evaluate the effectiveness of its responses to the following questions:

- Is there a shared understanding of the GSP's goals and its implementation timeline?
- Are stakeholders educated about the GSP development process and their own role?
- Has the GSA received positive press coverage?
- Do diverse stakeholders feel included?
- Has there been behavior changes related to the program goals? Or is improved trust/relationships in evidence among participants?
- Has the CommPlan been implemented and updated?
- Has the interested parties' list been expanded?
- Have there been well-attended and robust public hearings at all of the necessary junctures?
- Are all established venues for stakeholders open and effective?
- Are there formal mechanisms to assess outcomes and make improvements?

Reviewing these results will help identify what worked well, what did not work as planned, and to summarize lessons learned.

GSP Communications Plan

Appendix A. GSP Development Schedule



Appendix B. GSP Register of Attendees at all Public Meeting



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

Item No.:	3.g
Date:	2/11/21
To:	Board of Directors
Subject:	Presentation, Discussion and Possible Action Regarding the Development of Components of the Ukiah Valley Basin Groundwater Sustainability Plan
Consent Agenda <input type="checkbox"/> Regular Agenda <input checked="" type="checkbox"/> Noticed Public Hearing <input type="checkbox"/>	

Summary:

The Board will receive an update and presentation from Larry Walker and Associates regarding components of the Ukiah Valley Groundwater Sustainability Plan (GSP) including Technical Advisory Committee recommendations, draft GSP Chapter rollout schedule, monitoring network updates and development of Project and Management Actions and Sustainable Management Criteria.

Recommended Action:

Provide direction to the staff regarding the development of the Ukiah Valley Groundwater Sustainability Plan

Background:

Larry Walker and Associates are the lead consultants on the Ukiah Valley Basin Groundwater Sustainability Plan. Larry Walker has presented review components for feedback and approval to the Board consistently on updates to the GSP since their contract started in September 13, 2018.

Fiscal Summary: N/A

Action: _____



Ukiah Valley Basin Groundwater Sustainability Agency

Agenda Summary

Motion: _____ **2nd:** _____

Ukiah Valley Basin Groundwater Sustainability Agency
Board Meeting

**Ukiah Valley Groundwater Sustainability Plan
Development Update**

February 11, 2021



Topic Agenda

- Introduction to Projects and Management Actions
- Update on GSP Monitoring Networks
- Introduction to Interconnected Surface Water and Groundwater Dependent Ecosystems
- GSP's 3-month Outlook

Introduction to Projects and Management Actions



Projects and Management Actions

- Why do we need projects and management actions (PMAs)?
 - To **achieve the sustainability goal** by 2042 and avoid undesirable results through 2092
 - To respond to **changing conditions** in the Basin
 - Each of the PMAs may support achieving sustainability for **one or more sustainability indicators**
- Can be categorized into
 - Existing PMAs
 - Proposed or planned PMAs to reach sustainability
 - PMAs to be evaluated in the future

Proposed PMAs in WG Meeting and Existing PMAs

■ Proposed Projects:

- Reduce evaporation losses in storage facilities
 - Use of WaterSavr for Lake Mendocino and agricultural ponds
 - Use shade ball cover for agricultural ponds
- Implement recharge projects
 - Using ag fields to recharge by utilizing frost protection systems and/or timely off-season diversions
 - Implement multi-benefit infiltration projects including stormwater BMPs and LIDs
- Protect source waters and recharge areas
 - Purchase surface water tributaries' headwaters
 - Limit urbanization of recharge areas through working with land use planning agencies

■ Existing PMAs:

- City of Ukiah RW project (Water Supply)
- PVP Project (Water Supply)
- Ukiah Valley-Redwood Valley Water Supply Reliability Intertie and Well Development Project (Water Supply)
- Forecast Informed Reservoir Operation (Water Supply)
- Water Main and Meter Replacement (Demand Management)
- Conservation ordinances and programs outlined in general plans and water plans
- Public education and outreach
- Improved frost and heat forecasting

Questions?

Update on GSP Monitoring Networks



GSP Annual Reporting Requirements

- Monitored data should be stored in the Data Management System and reported in the annual reports (April 1 of each year):

- Groundwater elevation data

- Contour maps of at least seasonal highs and lows for each aquifer
- Hydrographs with water year types from at least Jan 1 , 2015.

- Groundwater extraction

- A table showing extractions by water use sector
- A map showing general location of extractions
- Surface water supply available for groundwater recharge or in-lieu use
- Total water use by water use sector and water source type

- Change in groundwater storage

- Based on contour map for each principal aquifer
- Graph by water year type

Directly or indirectly measured by the monitoring networks

- Progress towards implementing the Plan, including achieving interim milestones and implementing PMAs

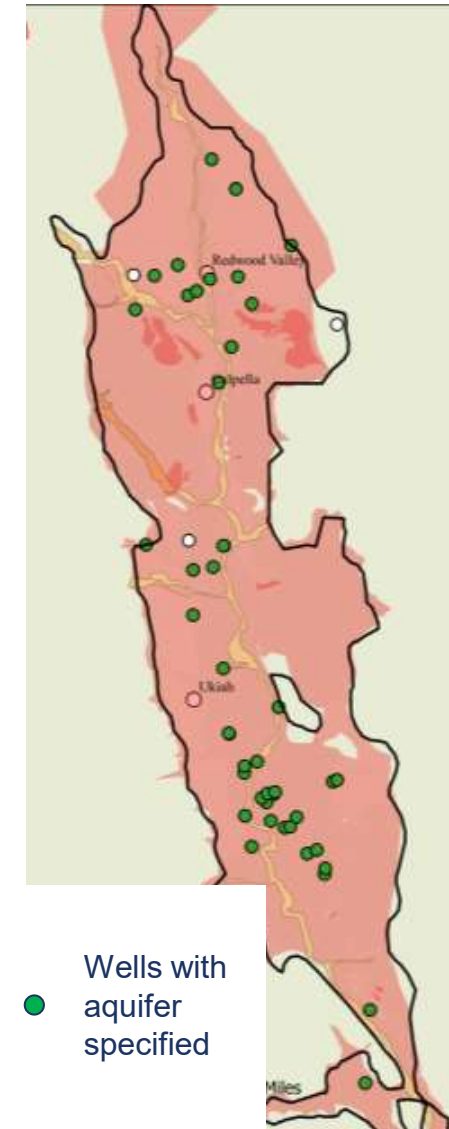
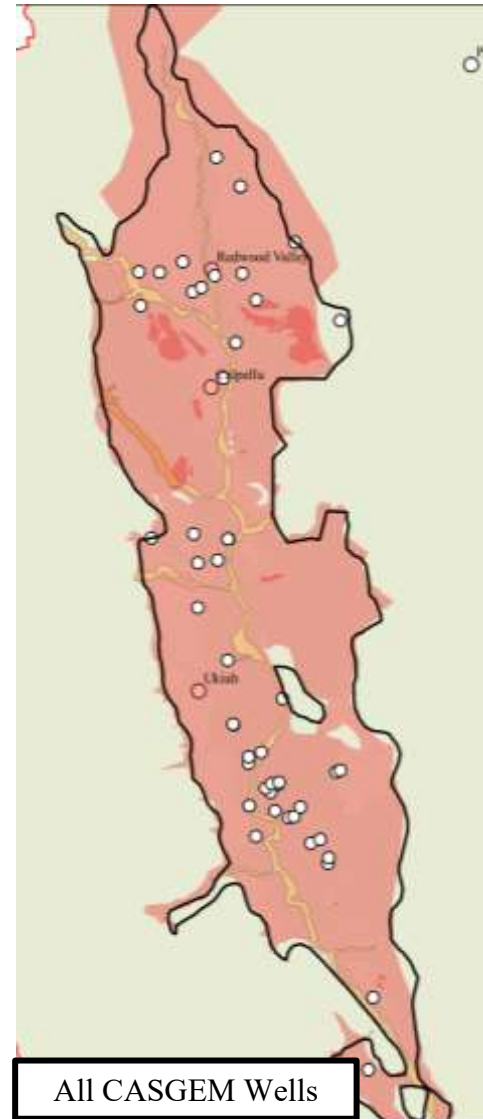
Chronic Lowering of Groundwater Levels

■ Goal:

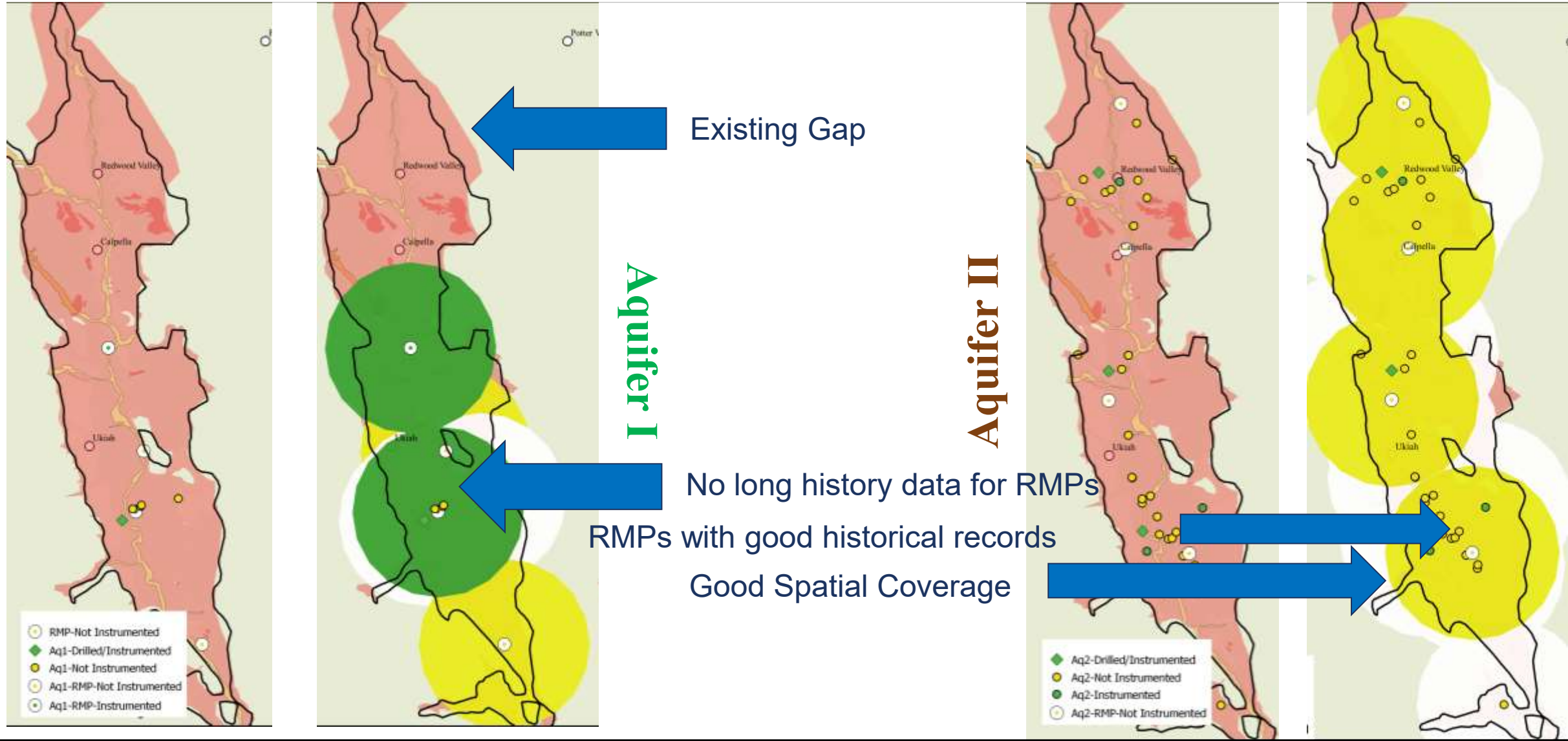
- Adequate spatial distribution, coverage, and well density
- Long-term history
- Adequate frequency to capture seasonal, short and long-term trends

■ What is needed:

- Monitoring History: Available historical data
- Well Information: construction information such as well depth and screened interval(s)
- Well Access



Chronic Lowering of Groundwater Levels



Chronic Lowering of Groundwater Levels

■ Next steps

- Complete missing well construction information
- Obtain appropriate access agreements for RMPs and wells that need them
- Instrument and drill scheduled wells
- Compile data gaps and propose further steps to fill such gaps for coming reviews of the GSP.

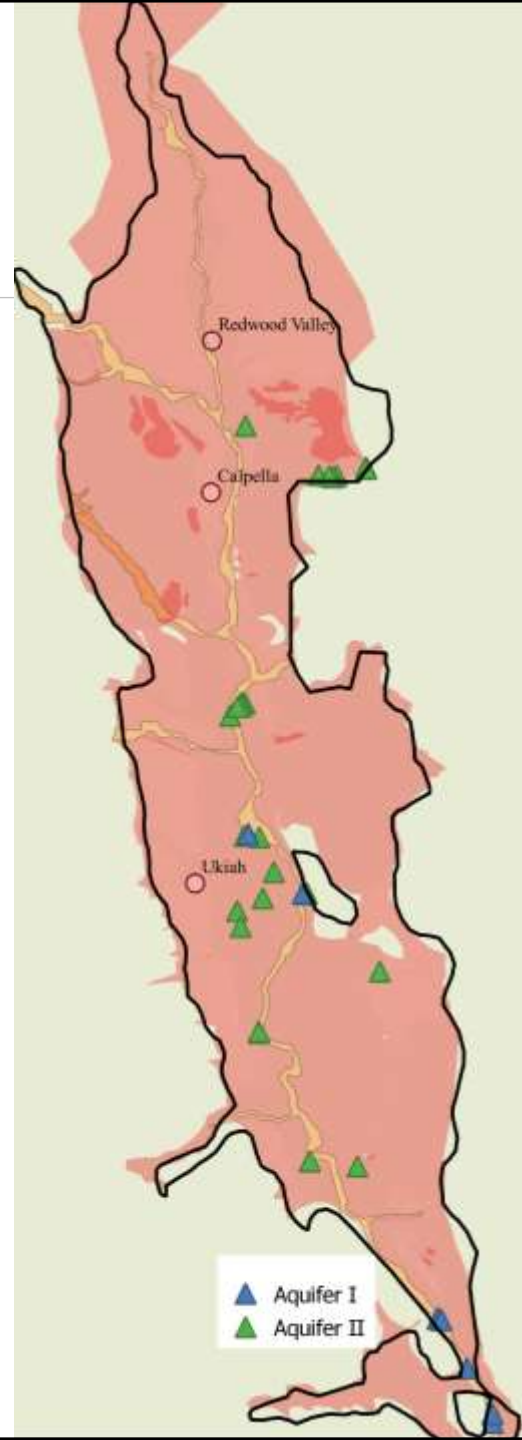
Degradation of Water Quality

■ Goal:

- Adequate spatial distribution, coverage, and well density
- Long-term history
- Adequate frequency to capture seasonal, short and long-term trends

■ What is needed:

- Monitoring History: Available historical data
- Well Information: construction information such as well depth and screened interval(s)
- Well Access
- Sampling of COCs with defined frequency



■ COCs

- Boron
 - Iron
 - Manganese
 - Nitrate
 - Specific conductivity
- Started from all Public/Private Supply wells with DDW Sampling record of COCs.
- Limited to ones we could identify their aquifers.

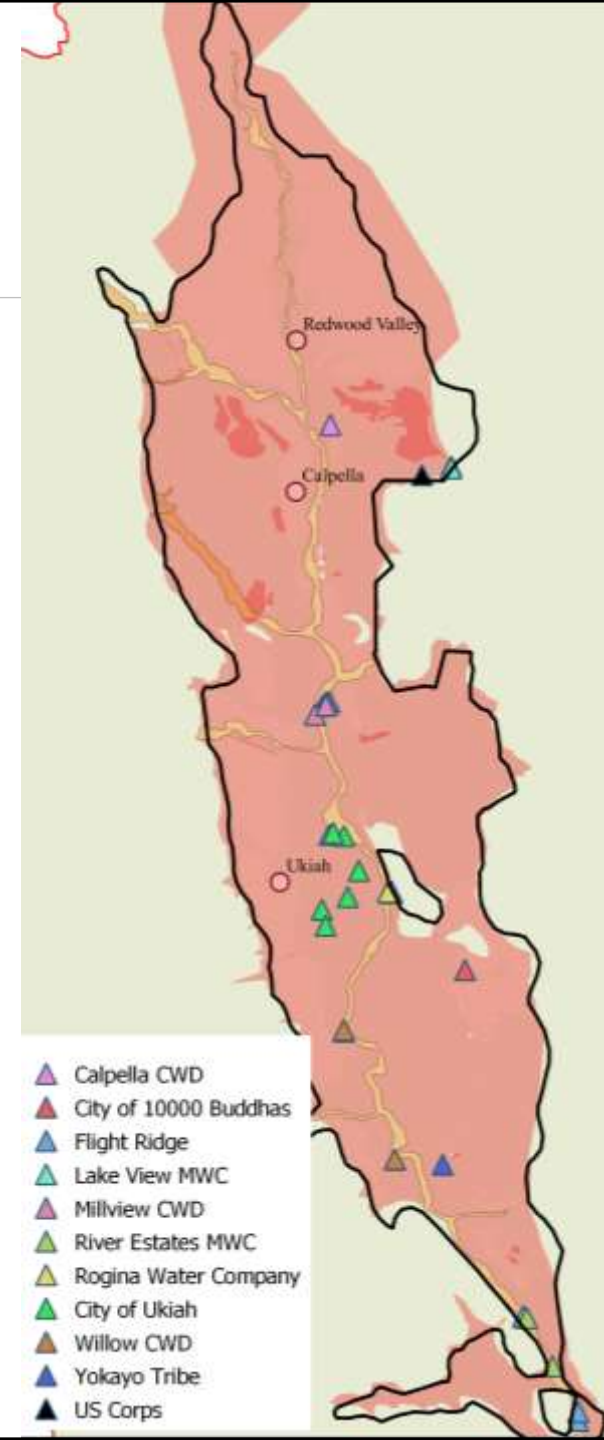
Degradation of Water Quality

■ Next steps

- Coordinate with suppliers to incorporate their wells in the program
- Review suppliers monitoring schedule and program to ensure sufficient frequency of COC sampling
- Obtain access and sampling agreements if necessary
- Obtain and confirm well construction information
- Compile data gaps and propose further steps to fill such gaps for coming reviews of the GSP:
 - Aquifer I has gaps in spatial coverage and temporal coverage

■ Possible alternatives not currently included:

- GSA monitoring sites: Wells that will be monitored and sampled by the GSA



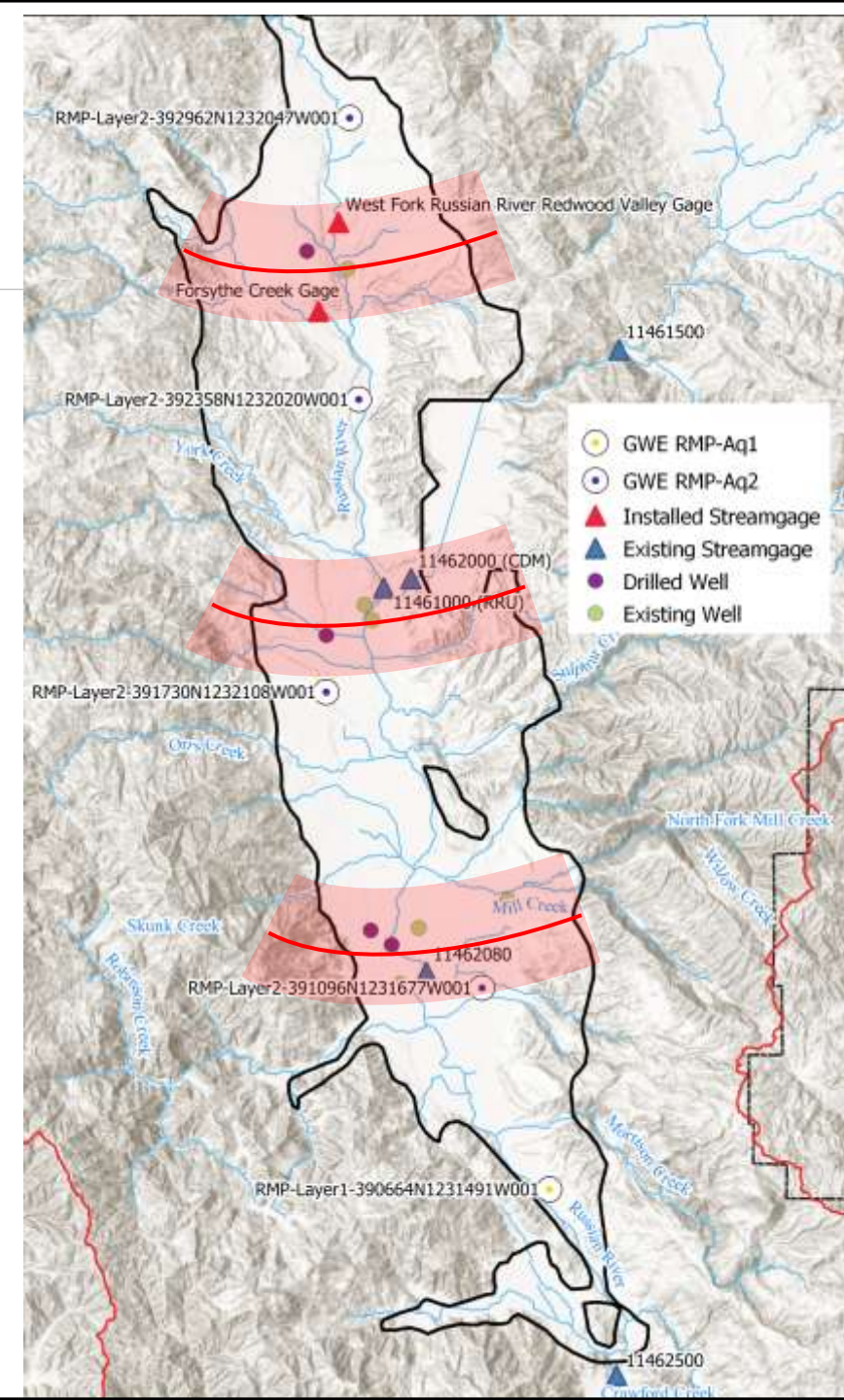
Depletion of Surface Water Monitoring Network

■ Goal:

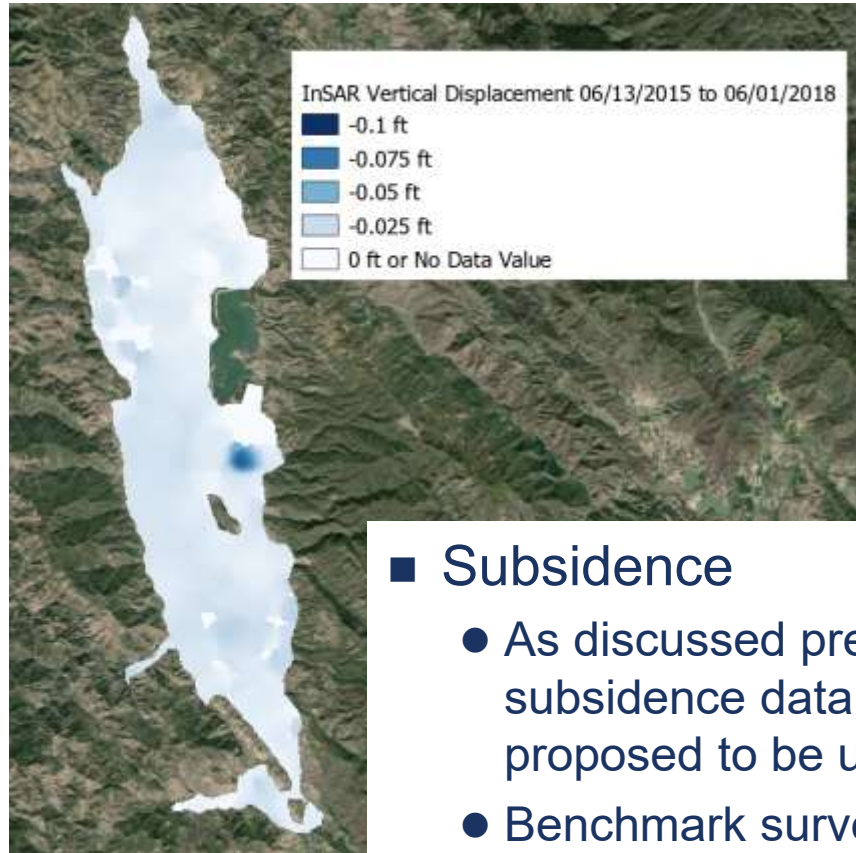
- Characterize spatial and temporal exchanges between SW/GW
- Characterize flow conditions:
 - surface water discharge
 - surface water head
 - baseflow contribution
- Identify the approximate date and location where ephemeral or intermittent flowing streams and rivers cease to flow
- Characterize temporal change in conditions due to variations in stream discharge and regional GW extraction

■ What is needed:

- Streamgages and flow measurement
- High-frequency GW elevation measurement
- Observations of flowing/not flowing conditions
- Estimation of depleted volume and changes in condition (integrated model)



Reduction in Storage and Subsidence

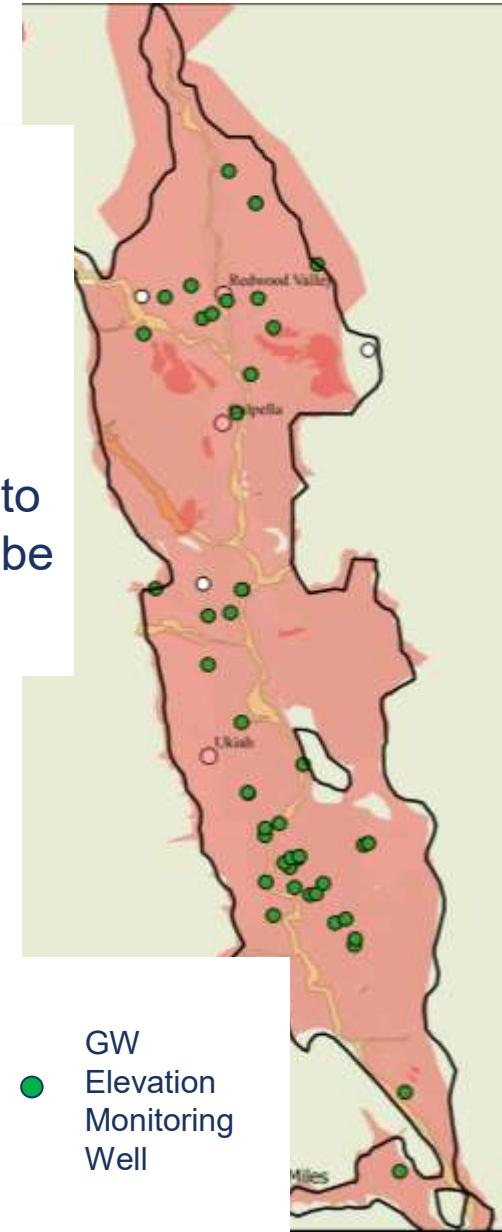


■ Reduction in Storage

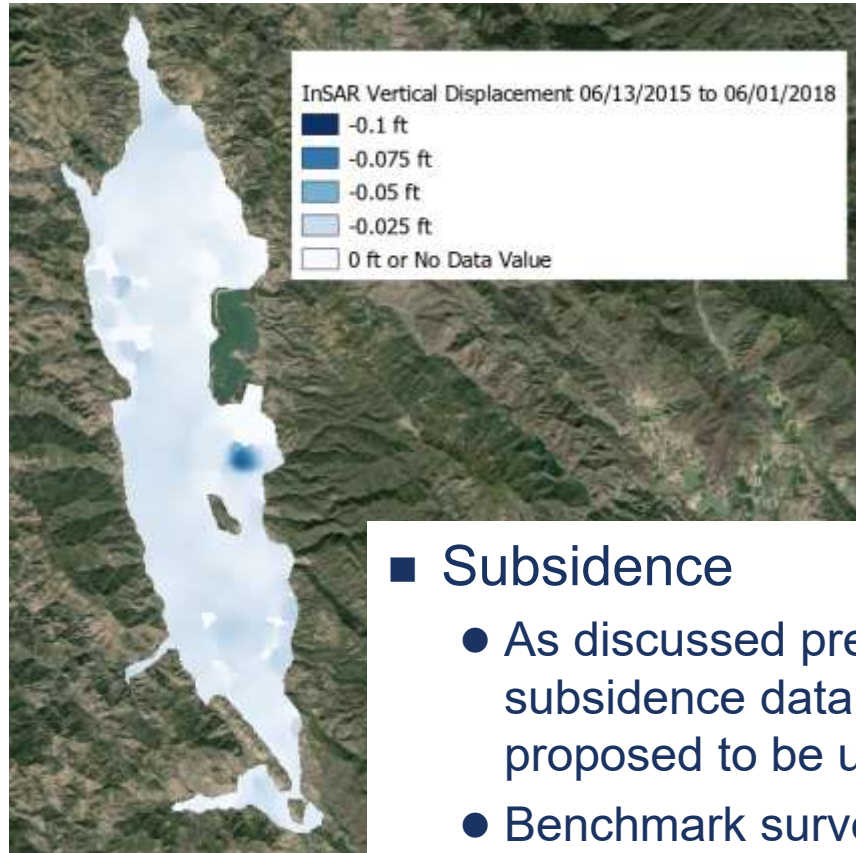
- We propose to use chronic lowering of groundwater levels monitoring network for reduction in storage.
- Reduction in storage will be measured using groundwater elevations and will be compared to model estimates. Groundwater elevations will be used as proxy to monitor this criterion.

■ Subsidence

- As discussed previously, InSAR satellite-derived subsidence data product published annually by DWR is proposed to be used for the monitoring.
- Benchmark surveys or groundwater levels as proxy can also be used for monitoring subsidence. However, due to lack of historical subsidence in the basin they are not proposed as of now.



Reduction in Storage and Subsidence

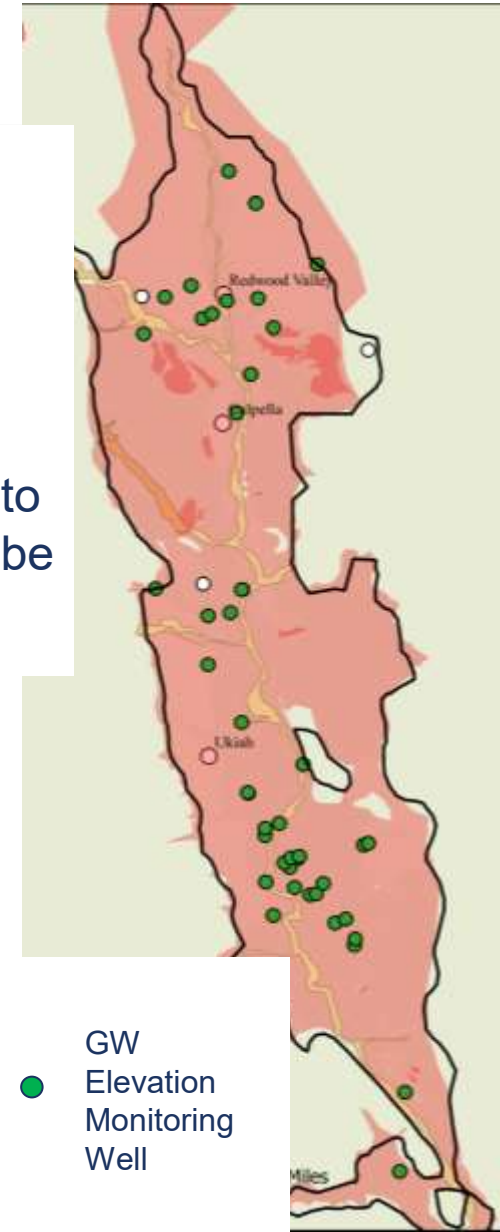


■ Reduction in Storage

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- Reduction in storage will be measured using groundwater elevations and will be compared to model estimates. Groundwater elevations will be used as proxy to monitor this criterion.

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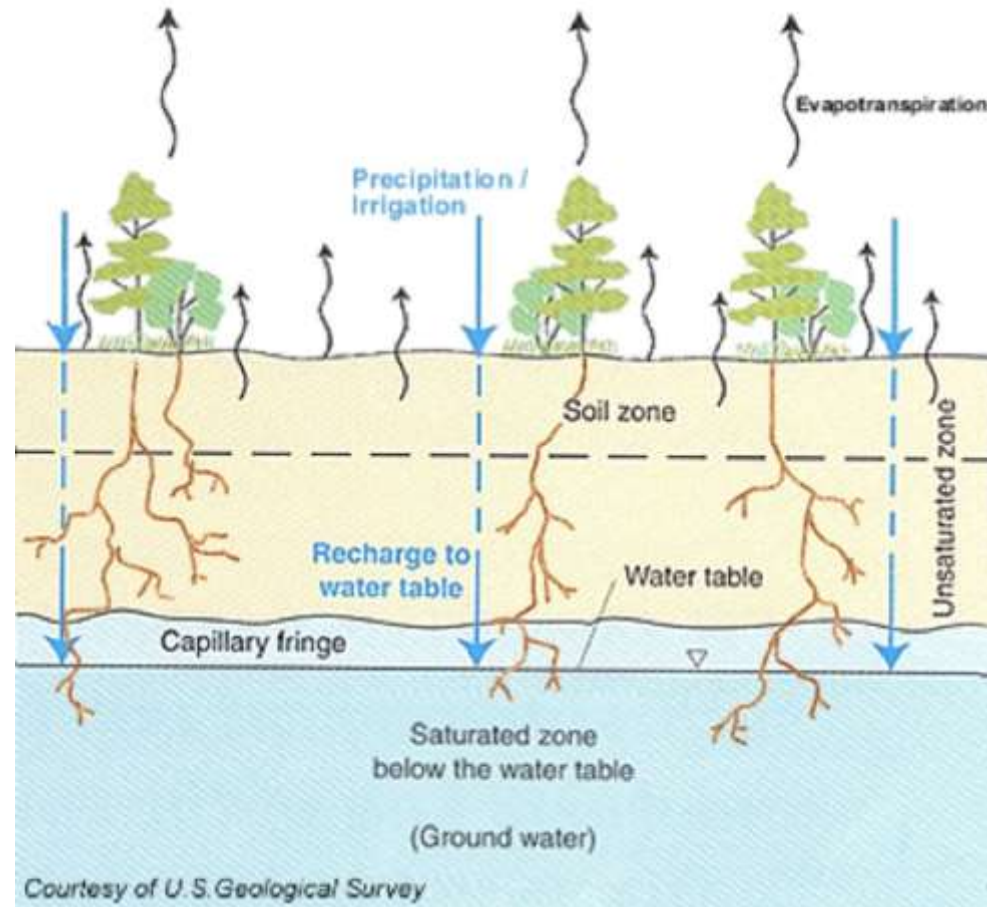
Questions?

Interconnected Surface Waters and Groundwater Dependent Ecosystems



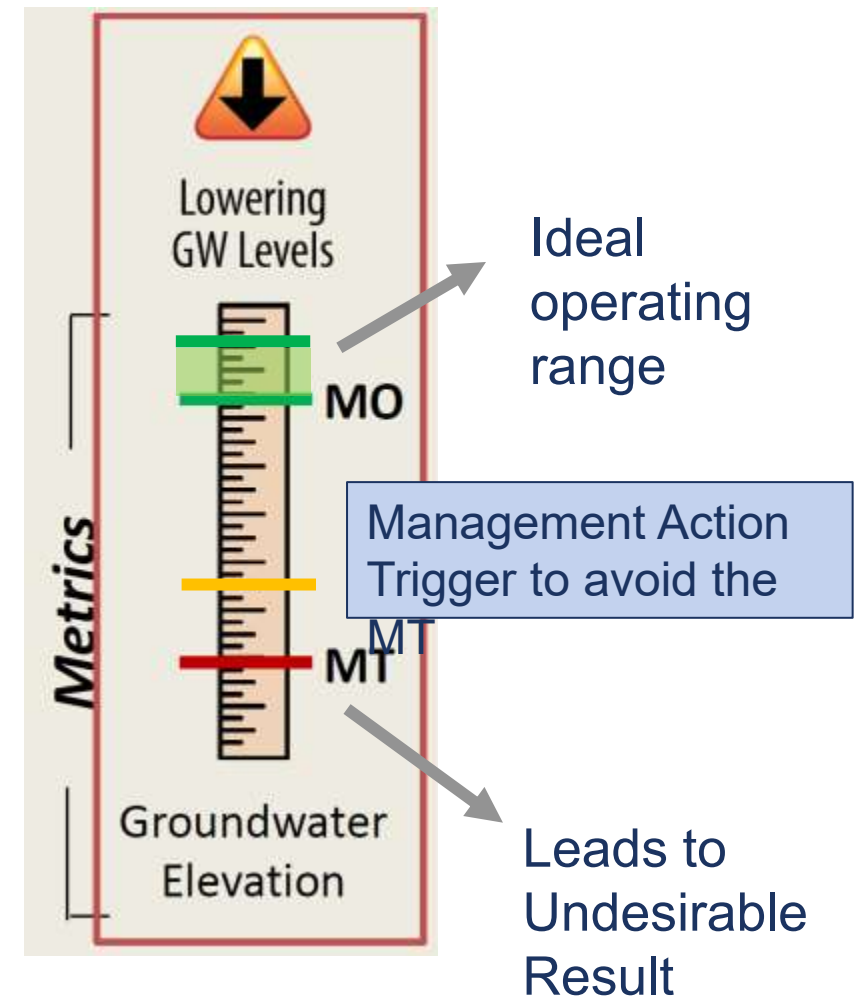
WC § 10727.4(I) Impacts to GDEs

- 23 CCR § 351(m): “Groundwater dependent ecosystem”
- Refers to ecological communities or species that depend on:
 - Groundwater emerging from aquifers; or
 - Groundwater occurring near the ground surface.



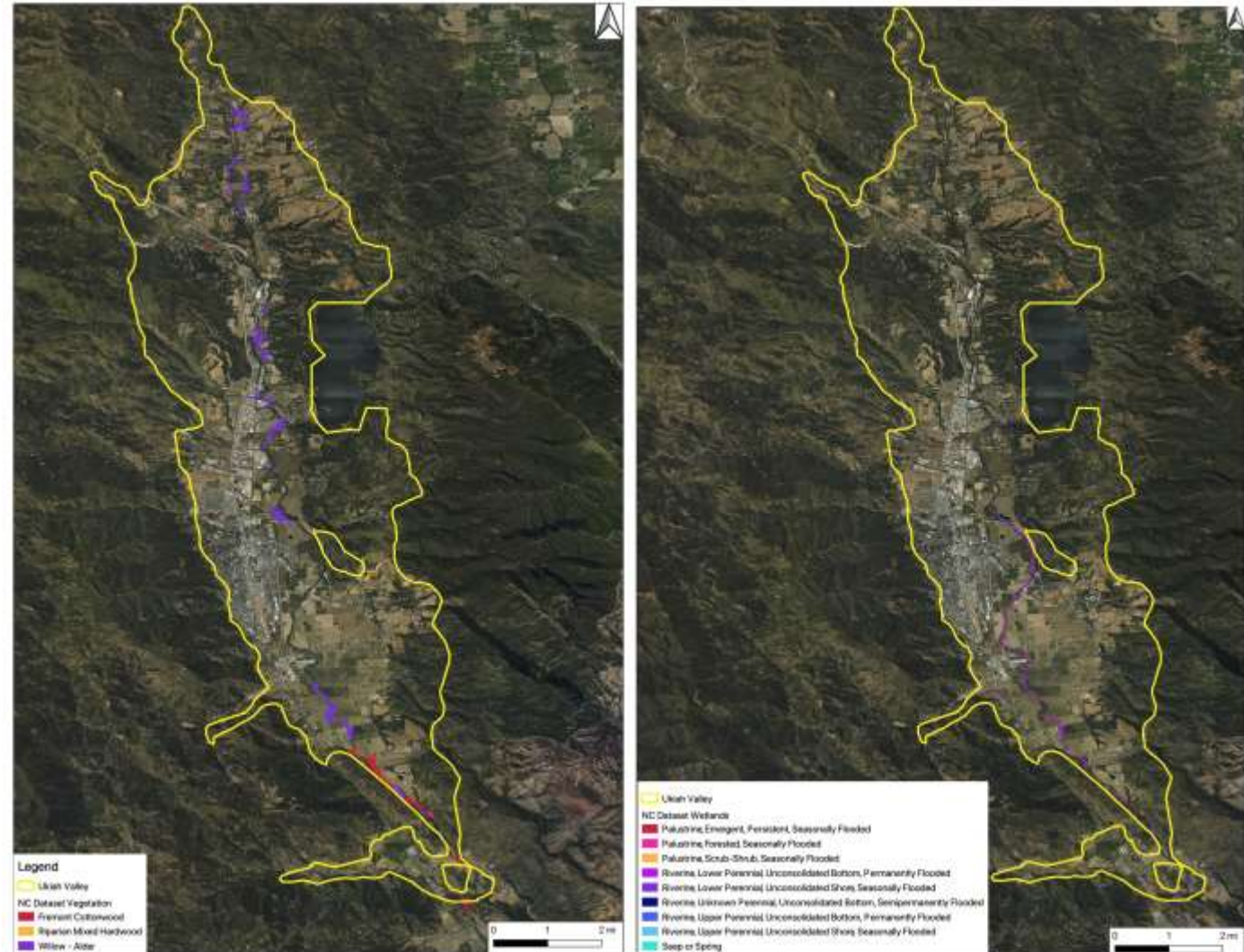
Undesirable Results and Minimum Thresholds of GDEs

- Undesirable Results (UR) for GDEs is the lowering of groundwater levels to cause diminishment of GDE habitat.
- Minimum Thresholds (MT) for GDE should be historic level of groundwater near the vicinity of mapped GDEs.

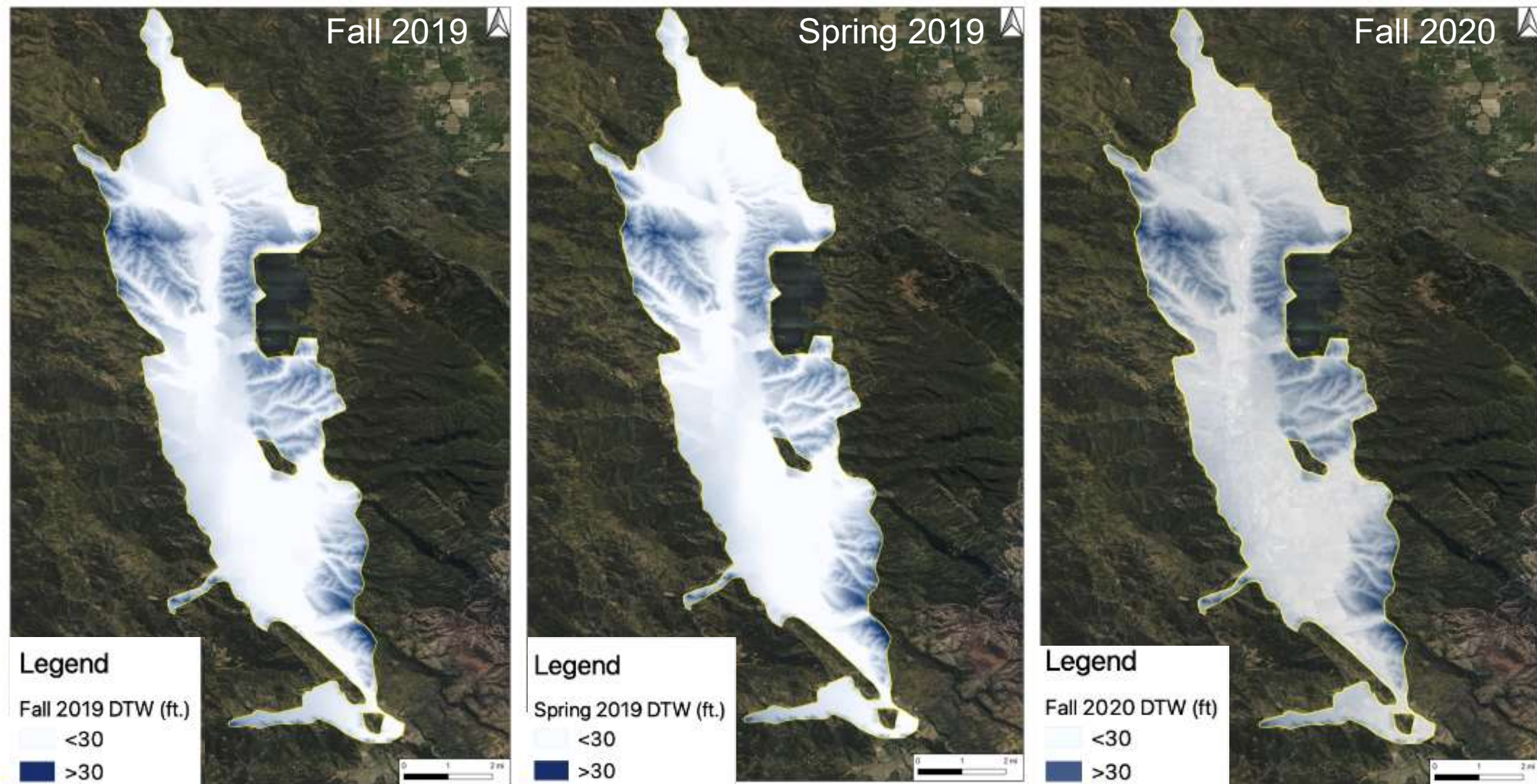


1. Mapped Potential GDEs

- Natural Communities Commonly Associated with Groundwater Dataset (NC dataset)
 - Collaboration between DWR, CDFW, and The Nature Conservancy (TNC)
 - Comprised of 2 datasets
 - Vegetation
 - Wetlands
 - Available via DWR's "NC Dataset Viewer"
- DWR 2010 Land Use (Crop Maps 2014 and 2016)
 - Riparian
 - Dry stream channel
 - Water surface



2. Depth to Groundwater



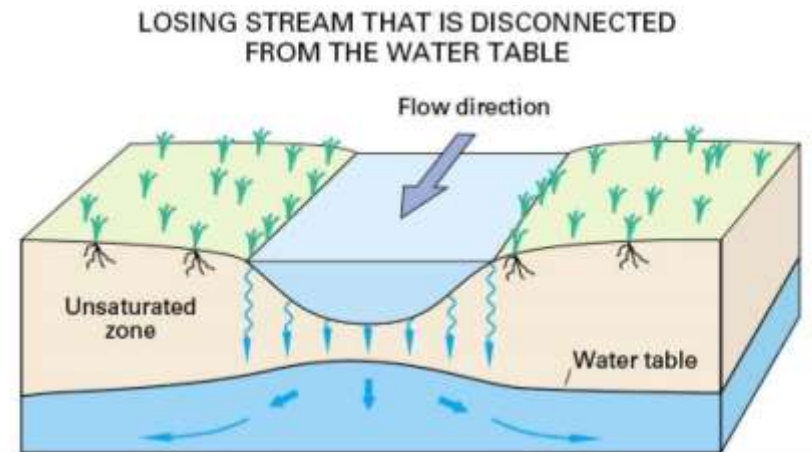
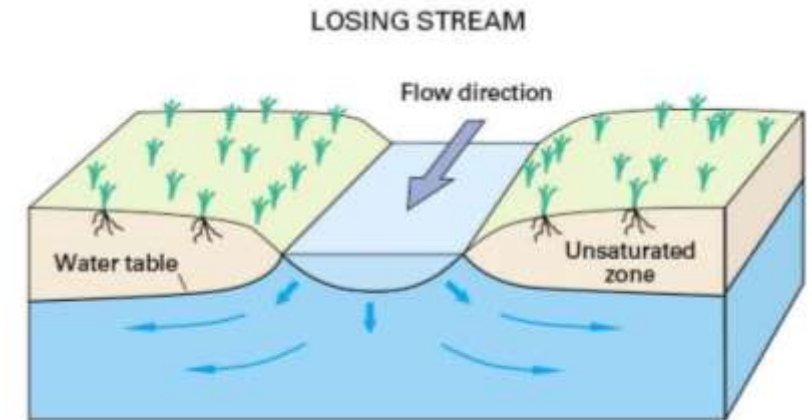
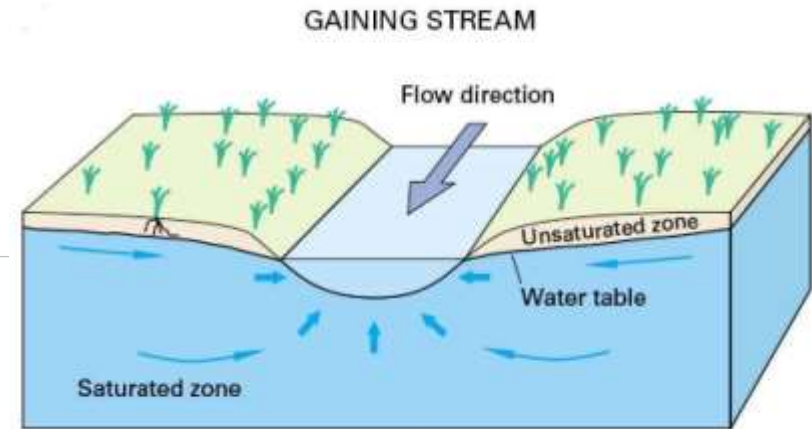
Interconnected Surface Waters

- 23 CCR § 351(o)
“Interconnected surface water” refers to surface water that is hydraulically connected at any point by a continuous saturated zone to the underlying aquifer and the overlying surface water is not completely depleted.

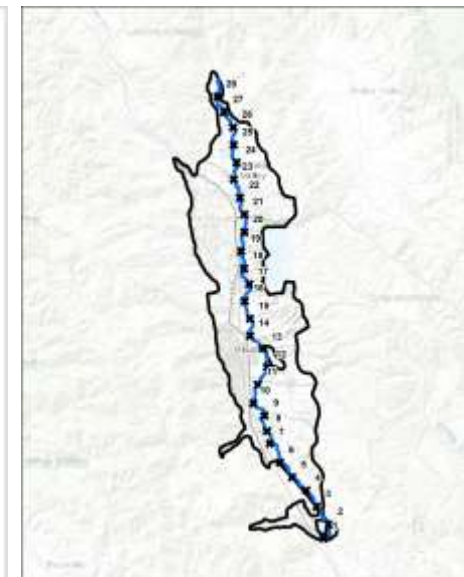
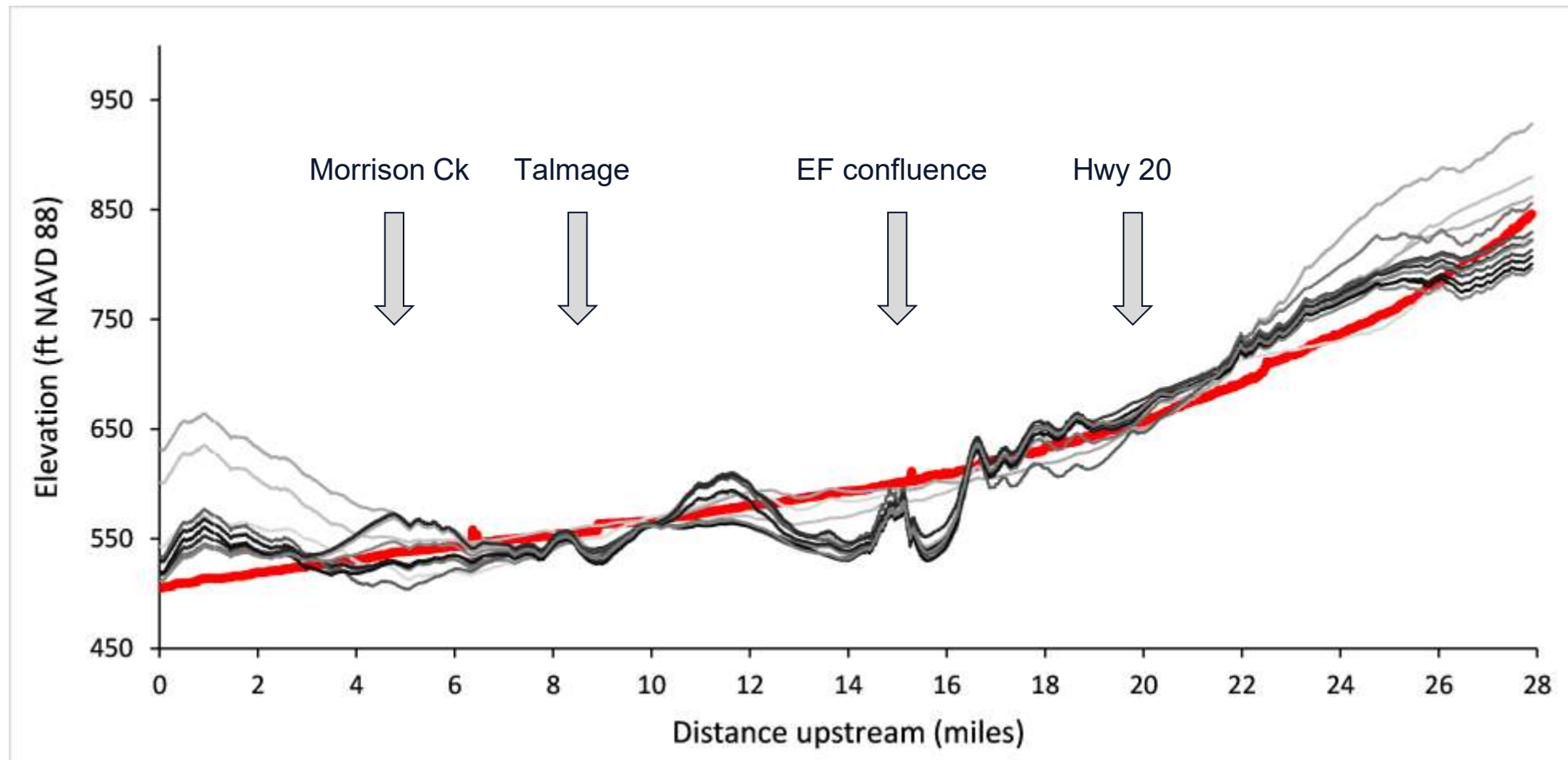
Gaining

Losing
connected

Losing
disconnected



ISW Analysis: Russian River Long Profile



Red: Russian River Profile

Grey/Black: Groundwater Levels

Next Steps

- Map connected/disconnected GDEs and ISW
- Use the model to simulate scenarios and understand impact of groundwater management.
- Define undesirable results associated with depletion of surface waters that should be avoided.
- Assess impacts on identified ISWs due to set Sustainable Management Criteria and evaluate whether they avoid undesirable results.
- Repeat the last two steps while setting SMCs until satisfactory setting is achieved.

Questions?

GSP's 3-month Outlook



3-month Outlook

TAC meeting	Key topics	Key goals	GSP chapter production
February	<ul style="list-style-type: none"> • Introduction to Interconnected SW and GDE approach • Preliminary discussion on Project and Management actions 	Receive feedback on data used Interconnected SW and GDEs approach Discussion on PMAs that can be simulated with the GSFLOW model	Technical team working already on Chapter 1 and 2, and SMC summary for Water Quality and subsidence for a review by TAC
March	<ul style="list-style-type: none"> • Water budget presentation including historical, current and future conditions, and primary scenarios • Comparison of data and model; approach and results for ISW and GDEs analysis 	Feedback about full water budget Discussion about data and model results for ISW and GDEs	Based on TAC feedback, technical team will start drafting Chapter 4 and 5 for PMAs and implementation
April	<ul style="list-style-type: none"> • Refinement of Groundwater Dependent Ecosystems (GDEs) and ISW approach • Presentation of possible approach for groundwater level decline SMC • Presentation of possible approach for depletion of surface water 	Possibly get final feedback about GDEs and how to integrate that into the other SMCs Receive Feedback on groundwater levels SMC Finalizing monitoring networks	Technical Team working on finalizing Chapter 2 for water budget and ISW/GDEs Produce relevant SMC subchapters of chapter 3 for TAC review

Questions?



Thank you!