



Attachment 1 Authorization

The attached file contains the signed minute book for the August 10, 2017 UVBGSA meeting where the Board authorized the Mendocino County Water Agency to apply to DWR.

6(c) Discussion and Possible Action Regarding the Department of Water Resources' (DWR) Solicitation Package for Groundwater Sustainability Plans (GSP) and Projects

Presenter/s: Ms. Sarah Dukett.

Public Comment: Ms. Devon Jones.

Board Action: Upon motion by Director Douglas Crane, seconded by Director Brandi Brown, and carried unanimously; IT IS ORDERED that the Board of Directors authorizes the Mendocino County Water Agency to apply for the Department of Water Resources Proposition 1 Groundwater Sustainability Planning Grant; and further authorizes the Mendocino County Water Agency to issue a Request for Proposals for the development of a Groundwater Sustainability Plan following the grant application submittal.



UKIAH VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY

501 Low Gap Rd., Rm. 1010 ♦ Ukiah ♦ California 95482 ♦ (707)463-4441 ♦ fax (707)463-7237

1:30 P.M. - August 10, 2017

**Mendocino County Board of Supervisors Chambers,
501 Low Gap Road, Room 1070, CA 95482**

ACTION MINUTES

1. CALL TO ORDER AND ROLL CALL (1:33 P.M)

Present: Director Zachary Robinson, Director Alfred White, Director Jerry Cardoza, Director Brandi Brown, and Chair Carre Brown. Chair Brown presiding.

Absent: Director Douglas Crane.

2. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by: Ms. Susan Knopf.

3. CONSENT ITEMS

3(a) Approval of Minutes from the July 13, 2017, Meeting

Presenter/s: Chair Carre Brown.

Public Comment: None.

Board Action: Upon motion by Director Alfred White, seconded by Director Jerry Cardoza, and carried (5/0/1 with Director Crane absent); IT IS ORDERED that the Board of Directors hereby approves the Minutes of the July 13, 2017, Ukiah Valley Groundwater Sustainability Agency as amended with correction to the spelling of Ms. Susan Knopf's name.

4. STAFF UPDATES

Presenter/s: Ms. Sarah Dukett.

5. PUBLIC COMMENTS ON ITEMS NOT ON THE AGENDA

Presenter/s: None.

DIRECTOR DOUGLAS CRANE PRESENT AT 1:44 P.M.



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6. ACTION ITEMS

6(a) Discussion and Possible Action to Adopt a Resolution Adopting a Conflict of Interest Code

Presenter/s: Ms. Sarah Dukett.

Public Comment: None.

Board Action: Upon motion by Director Alfred White, seconded by Director Jerry Cardoza, and carried unanimously; IT IS ORDERED that the Board of Directors adopts the Resolution adopting the Ukiah Valley Basin Groundwater Sustainability Agency Conflict of Interest Code.

RESOLUTION NO. 17-02

RESOLUTION OF THE UKIAH VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY
ADOPTING A CONFLICT OF INTEREST CODE

6(b) Presentation, Discussion and Possible Action Regarding the Development of Bylaws

Presenter/s: Ms. Sarah Dukett.

Public Comment: None.

Board Directive: GENERAL CONSENSUS OF THE BOARD OF DIRECTORS to simplify the language contained in section 10 of the draft bylaws by retaining the language currently contained in sections 10.1, 10.2, 10.4, and 10.6; eliminating sections 10.3 and 10.5; and renumbering the section accordingly.

6(c) Discussion and Possible Action Regarding the Department of Water Resources' (DWR) Solicitation Package for Groundwater Sustainability Plans (GSP) and Projects

Presenter/s: Ms. Sarah Dukett.

Public Comment: Ms. Devon Jones.

Board Action: Upon motion by Director Douglas Crane, seconded by Director Brandi Brown, and carried unanimously; IT IS ORDERED that the Board of Directors authorizes the Mendocino County Water Agency to apply for the Department of Water Resources Proposition 1 Groundwater Sustainability Planning Grant; and further authorizes the Mendocino County Water Agency to issue a Request for Proposals for the development of a Groundwater Sustainability Plan following the grant application submittal.

7. DIRECTOR REPORTS

Presenter/s: Board of Directors.

Public Comment: None.

Board Directive: GENERAL CONSENSUS OF THE BOARD OF DIRECTORS directing Ms. Sarah Dukett to provide a presentation to the Board of Directors at their November meeting on the final results of the Proposition 1 Grant for counties with stressed basins.



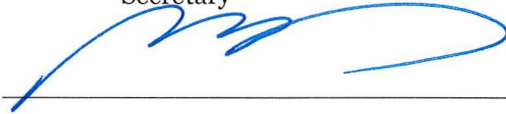
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8. ADJOURNMENT (2:21 P.M.)

Attest: BRANDI BROWN
Secretary


CARRE BROWN, Chair





Attachment 2 Eligibility

Mendocino County Water Agency (WRA) is submitting a basin wide application on behalf of the Ukiah Valley Basin Groundwater Sustainability Agency which is governed by the attached Joint Powers Agreement of its members. The Water Agency would be signatory to the Agreement with DWR consistent with the JPA and Bylaws.

Joint Powers Agreement Forming the Ukiah Valley Basin Groundwater Sustainability Agency

This Joint Powers Agreement ("Agreement") is made and entered into by and among the Russian River Flood Control and Water Conservation Improvement District ("RRFC"), and the Upper Russian River Water Agency, both of which are California special districts, the City of Ukiah, a municipal corporation, and the County of Mendocino, a political subdivision of the State of California, which are together referred to herein individually as "Member" and collectively as "Members," for the purposes of forming a joint powers agency, to be known as the Ukiah Valley Basin Groundwater Sustainability Agency, to serve as the Groundwater Sustainability Agency in the Ukiah Valley basin.

Recitals

A. Each of the Members is a local agency, as defined by the Sustainable Groundwater Management Act of 2014 (Division 2, Part 2.74 (commencing with §10720), Part 5 (commencing with Section 4999), Part 5.1 (commencing with Section 5100) and Part 5.2 (commencing with Section 5200) of the California Water Code Section *et seq.*; "SGMA"), duly organized and existing under, and by virtue, of the laws of the State of California, and each Member has water supply, water management or land use responsibilities within the Ukiah Valley.

B. SGMA seeks to provide sustainable management of groundwater basins, enhance local management of groundwater, establish minimum standards for sustainable groundwater management, and provide local groundwater agencies with the authority and the technical and financial assistance necessary to sustainably manage groundwater.

C. Section 10720.7 of SGMA requires all basins designated as high or medium priority basins by the Department of Water Resources ("DWR") in its Bulletin 118 be managed under groundwater sustainability plans, or coordinated groundwater sustainability, plans pursuant to SGMA.

D. The Ukiah Valley basin (designated basin number 1-52 in Bulletin 118; the "Basin") is designated as a medium-priority basin.

E. The Members have determined that the sustainable management of the Basin pursuant to SGMA may best be achieved through the cooperation of the Members operating through a joint powers agency.

F. The Joint Exercise of Powers Act (Chapter 5 (commencing with § 6500) of Division 7, of Title 1 of the California Government Code; the "Act"), authorizes two or more public agencies to, by agreement, jointly exercise any power held in common by agencies entering into such an Agreement and to exercise additional powers granted under the Act.

G. Based on the foregoing legal authority, the Members desire to create a joint powers agency for the purpose of taking all actions deemed necessary by the joint powers agency to ensure sustainable management of the Basin, as required by SGMA.

H. The governing board of each Member has determined it to be in the Member's and in the public's best interest that this Agreement be executed.

Terms of Agreement

Article 1. Definitions

As used in this Agreement, unless context requires otherwise, the meanings of the terms set forth below shall be as follows:

1.1. "Act" means the Joint Exercise of Powers Act, set forth in Chapter 5 of Division 7 of Title 1 of the Government Code, sections 6500, *et seq.*, including all laws supplemental thereto.

1.2. "Agency" means the Ukiah Valley Basin Groundwater Sustainability Agency.

1.3. "Agreement" means this joint powers agreement, which creates the Ukiah Valley Basin Groundwater Sustainability Agency.

1.4. "Basin" means the Ukiah Valley basin, as shown on the map attached as Exhibit A, which is incorporated herein by this reference.

1.5. "Board of Directors" or "Board" means the governing body of the Agency as established by Article 7 of this Agreement.

1.6. "Board Member" or "Director" shall mean a member of the Agency's Board of Directors.

1.7. "Committee" shall mean any committee established pursuant to Article Twelve (12) of this Agreement.

1.8. "Effective Date" means the date on which the last Member executes this Agreement.

1.9. "Fiscal Year" means July 1 through June 30.

1.10. "GSA" shall mean a groundwater sustainability agency.

1.11. "GSP" shall mean a groundwater sustainability plan.

1.12. "Member" has the meaning assigned to it in the Preamble and further means each party to this Agreement that satisfies the requirements of Section 6.1 of this Agreement, including any new members, as may be authorized by the Board pursuant to Section 6.2 of this Agreement.

1.13. "Member Director" means a director or alternate director appointed by a Member pursuant to Article 7 of this Agreement.

1.14. "Member's Governing Body" means the board of directors or other voting body that controls the individual public agencies that are Members.

1.15. "RRFC" has the meaning assigned to it in the Preamble of this Agreement.

1.16. "SGMA" has the meaning assigned to it in Recital A.

1.17. "Special Project" means a project undertaken by some, but not all Members of the Agency, pursuant to Article 14 of this Agreement.

1.18. "Stakeholder Director" means a Director appointed pursuant to Article 6 that represents stakeholder interests.

1.19. "State" means the State of California.

Article 2. Creation of a Separate Entity

2.1. Upon the effective date of this Agreement, Ukiah Valley Basin Groundwater Sustainability Agency ("Agency") is hereby created. Pursuant to the provisions of the Act, the Agency shall be a public agency separate from its members. The principal office shall be provided for in the Bylaws.

2.2. The boundaries of the Agency shall be as shown on the map on Exhibit A, attached and incorporated herein by this reference. The boundary shown on Exhibit A is an updated version of the Bulletin 118 boundary, based on the 2005 Larsen and Kelsey Map approved by the Department of Water Resources on January 26, 2017.

Article 3. Term

3.1. This Agreement shall become effective upon execution by each of the Parties and shall continue in full force and effect until terminated pursuant to the provisions of Article 17.

Article 4. Purpose of the Agency and this Agreement

4.1. The purpose of this Agreement is to create a joint powers agency separate from its Members that will elect to be the GSA for the entire Basin. The purpose of the Agency is to (a) develop, adopt, and implement a GSP for the Basin in order to implement SGMA requirements and achieve the sustainably goals outlined in SGMA; and (b) involve the public and area stakeholders through outreach and engagement in developing and implementing the Ukiah Valley Basin Groundwater Sustainability Plan.

Article 5. Powers of the Agency

5.1. Restrictions on Exercise of Powers. For purposes of Government Code Section 6509, the powers of the Agency shall be exercised subject to the restrictions upon the manner of exercising such powers as are imposed on the County of Mendocino, and in the event of the withdrawal of the County of Mendocino as a Member under this Agreement, then the powers of the Agency shall be exercised subject to the restrictions upon the manner of exercising such powers as are imposed on the City of Ukiah.

5.2. Powers. Subject to the limitations addressed herein, the Agency shall have the power in its own name to exercise any and all common powers of the Members reasonably related to the purposes of the Agency, including but not limited to, the following powers, together with such other powers as are expressly set forth in the Act and SGMA:

5.2.1. To exercise all powers afforded to a GSA pursuant to, and as permitted by, SGMA upon electing in accordance with SGMA to become the GSA for the Ukiah Valley Basin.

5.2.2. To develop, adopt and implement a GSP for the Basin pursuant to SGMA.

5.2.3. To adopt rules, regulations, policies, bylaws and procedures governing the operation of the Agency; and adoption and implementation of a GSP for the Basin.

5.2.4. To obtain rights, permits and other authorizations for, or pertaining to, implementation of a GSP for the Basin; and to exercise the common powers of the Members, as directed by the Board, in developing and implementing a GSP for the Basin.

5.2.5. To perform other ancillary tasks relating to the operation of the Agency pursuant to SGMA, including, without limitation, environmental review, engineering and design.

5.2.6. To employ, designate or otherwise contract for the services of agents, officers, employees, attorneys, engineers, planners, financial consultants, advisors, independent contractors, technical specialists and other consultants.

5.2.7. To make and enter into contracts necessary to the full exercise of the Agency's power.

5.2.8. To investigate legislation and proposed legislation affecting the Basin and to make appearances regarding such matters.

5.2.9. To acquire property and other assets by grant, lease, purchase, bequest, devise, gift or eminent domain; and to hold, enjoy, lease, sell, or otherwise dispose of property, including real property, water rights and personal property, necessary for the full exercise of the Agency's powers.

5.2.10. To cooperate, act in conjunction and contract with the United States, the State of California, or any agency thereof, counties, municipalities, public and private corporations of any kind (including, without limitation, investor-owned utilities), and individuals, or any of them, for any and all purposes necessary or convenient for the full exercise of the powers of the Agency.

5.2.11. To incur debts, obligations, and liabilities; to issue bonds, notes, certificates of participation, guarantees, equipment leases, reimbursement obligations and other indebtedness, and, to the extent provided for in a duly adopted Agency, to impose assessments, groundwater extraction fees or other charges, and other means of financing the Agency as authorized by Chapter 8 of SGMA (commencing at Section 10730 of the Water Code).

5.2.12. To apply for, accept, and receive contributions, grants or loans from any public or private agency or individual in the United States, or any department, instrumentality, or agency thereof for the purpose of financing the Agency's activities.

5.2.13. Invest money that is not needed for immediate necessities, as the Board of Directors determines advisable, in the same manner and upon the same conditions as other local entities in accordance with Section 53601 of the California Government Code, as that section now exists, or may hereafter be amended.

5.2.14. Reimburse Board Members for the actual amounts of reasonable and necessary expenses incurred in attending the Agency's meetings or any committee of the Agency in performing the duties of their officer, subject to Board of Directors policy and budget authorization.

5.2.15. To sue and be sued in the Agency's own name; provided that a Member may determine not to contribute to the expenses of litigation initiated by the Agency.

5.2.16. To provide for the prosecution of, defense of, or other participation in actions or proceedings at law or in public hearings in which the Members, pursuant to this Agreement, may have an interest; and may employ counsel and other expert assistance for these purposes.

5.2.17. To exercise the common powers of its Members to develop, collect, provide and disseminate information that furthers the purposes of the Agency, including, but not limited to the operation of the Agency and adoption and implementation of a Groundwater Sustainability Plan for the Basin, to the Members' legislative, administrative, and judicial bodies, as well as the public generally.

5.2.18. Employ or retain a full time or part time supporting staff.

5.2.19. To perform all other acts necessary or proper to fully carry out the purposes of this Agreement.

5.3. The Agency and all of its Members confirm that nothing contained herein shall grant the Agency any power to alter any water right, contract right, or any similar right held by its Members, or amend a Member's water delivery practice, course of dealing, or conduct without the express consent of the holder thereof.

Article 6. Membership

6.1. Initial Members. The initial Members of the Agency shall be the County of Mendocino, City of Ukiah, Russian River Flood Control and Water Conservation Improvement District, and the Upper Russian River Water Agency.

6.2. New Members. Additional Parties may join the Agency and become a Member provided that the prospective new member: (a) is eligible to join a GSA as provided by SGMA, (b) possesses powers common to all other Members, and (c) receives unanimous consent of the existing Members, evidenced by the execution of a written amendment to this Agreement signed by all Members, including the additional public agency. Additional Stakeholders Directors may be created by the execution of a written amendment to this Agreement signed by all Members.

Article 7. Agency Board of Directors

7.1. Formation of the Board of Directors. The Agency shall be governed by a Board of Directors ("Board of Directors" or "Board"). The Board shall be composed of six (6) Directors consisting of the following representatives, who shall be appointed in the manner set forth in Section 7:

7.1.1. One (1) representative appointed by the governing board of each Member, who shall be a member of the governing board of the Member (each, a "Member Director").

7.1.2. Two (2) Stakeholder Directors, one (1) of which shall be representative of agricultural stakeholders and interests within the Basin; and one (1) of which shall be representative of tribal stakeholders and interests within the Basin. The two (2) Stakeholder Directors shall meet the following qualifications: ¶

(a) 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.

(b) One (1) 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.

7.1.3. Relationship of Members. The Upper Russian River Water Agency is a joint powers authority consisting of several water districts within the Ukiah Valley and the RRFC. For purposes of the Agency, the RRFC desires to be a separate member of the Agency with a separate vote, and as such, will not take part in any action or discussion, and shall not vote on any item of the Upper Russian River Water Agency related to the Agency. The abstention of the RRFC from such agenda items of the Upper Russian River Water Agency shall be separately reflected in documents of the Upper Russian River Water Agency. Should the RRFC fail to abstain from taking part in any vote relating to the Agency before the Upper Russian River Water Agency, it shall not be entitled to vote on that matter when it comes before the Agency.

Members of the Upper Russian River Agency are also contemplating the consolidation of all members of the joint powers authority into a single water district. Should such consolidation occur, this JPA shall be amended to reflect the consolidation of members.

7.2. Duties of the Board of Directors. The business and affairs of the Agency, and all of the powers of the Agency, including without limitation all powers set forth in Article 5, are reserved to and shall be exercised by and through the Board of Directors, except as may be expressly delegated to the Executive Director or others pursuant to this Agreement, Bylaws, or by specific action of the Board of Directors.

7.3. Appointment of Directors. The Directors shall be appointed as follows:

7.3.1. Member Directors. Each Member Director must sit on the governing board of the Member and be appointed by that governing board by Resolution, which Resolution shall be transmitted to the Secretary of the Agency following adoption by the Member.

7.3.2. Stakeholder Directors. The two (2) Stakeholder Directors shall be appointed as follows:

(a) One (1) stakeholder shall be chosen by the Member Directors to represent agricultural interests within the Ukiah Valley Groundwater Basin. This stakeholder shall meet the qualifications as described in 7.1.2. (a). This stakeholder shall be selected from a list of three (3) nominations submitted from the Mendocino County Farm Bureau, but the three (3) nominees need not be a member of the organization. Nominees shall be submitted to the Member Directors pursuant to a process specified in the Bylaws, unless directed otherwise by the Member Directors. The Member Directors shall consider the nominees at a regular meeting of the Board and shall appoint the Agricultural Stakeholder Director upon simple majority vote of all Member Directors.

(b) Tribal Stakeholder Director. The Member Directors shall confirm the nomination for the Tribal Stakeholder Director submitted by the six (6) 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.

7.4. Alternate Directors. Each Member may also appoint one (1) Alternate Director to the Board of Directors, and an Alternate Director shall be appointed for each Stakeholder Director. All Alternate Directors shall be appointed in the same manner as set forth in Section 7.3. Alternate Directors shall have no vote, and shall not participate in any discussions or deliberations of the Board unless appearing as a substitute for a Director due to absence or conflict of interest. If the Director is not present, or if the Director has a conflict of interest which precludes participation by the Director in any decision-making process of the Board, the Alternate Director appointed to act in his/her place shall assume all rights of the Director, and shall have the authority to act in his/her absence, including casting votes on matters before the Board. Each Alternate Director shall be appointed prior to the third meeting of the Board. Alternate Directors are encouraged to attend all Board meetings and stay informed on current issues before the Board. Alternate Board Members have no vote at Board of Director meetings if the Board Member is present. If the Board Member is not present, the Alternate Board Member shall be entitled to participate in all respects as a regular Board Member.

7.5. Terms of Office. The term of office for each member of the Agency's Board of Directors is two (2) years. Each member of the Board of Directors shall serve at the pleasure of the appointing Member and may be removed from the Board of Directors by the appointing members at any time. If at any time a vacancy occurs on the Board of Directors, a replacement shall be appointed to fill the unexpired term of the previous Board Member, pursuant to Article 7 and within ninety (90) days of the date that such position becomes vacant.

7.6. Removal of Board Members. Board Members and Alternate Board Members shall serve at the pleasure of their appointing Member's governing board and may be removed or replaced at any time. A Board Member that no longer meets the qualifications set forth in section 7.1 is automatically removed from the Agency Board of Directors. Upon removal of a Board Member, the Alternate Board Member shall serve as a Board Member until a new Board Member is appointed by the Member. Members must submit any changes in Board Member or Alternate Board Member positions to the Secretary in writing and signed by the Member. A Stakeholder Director may be removed or reappointed by a simple majority vote of all Member Directors.

7.7. Vacancies. A vacancy on the Board of Directors shall occur when a Director resigns or reaches the end of that Director's term, as set forth in Section 7.5. For Member Directors, a vacancy shall also occur when he/she is removed by his/her appointing Member. For Stakeholder Directors, a vacancy shall also occur when the Stakeholder Director is removed, as set forth in Section 7.5. Upon the vacancy of a Member Director, the Alternate Director shall serve as Director until a new Director is appointed, as set forth in Section 7.3, unless the Alternate Director is already serving as a Member Director in the event of a prior vacancy, in which case, the seat shall remain vacant until a replacement Director is appointed as set forth in Section 7.3. Members shall submit any changes in Director or Alternate Director positions to the Board of Directors or Executive Director by written notice, signed by an authorized representative of the Member. The written notice shall include a Resolution of the governing board of the Member directing such change in the Director or Alternative Director position.

7.8. Adjustment to Composition of the Board of Directors. Should the circumstances change in the future, any person or entity may petition the Members hereto to amend this Agreement so as to add or delete representatives to the Governing Board to accurately reflect groundwater production within the boundaries of the authority.

Article 8. Agency Meetings

8.1. Initial Meeting. The initial meeting of the Agency's Board of Directors shall be called by the County of Mendocino and held in the Mendocino County Board of Supervisors Chambers, 501 Low Gap Road, Ukiah, California within 60 days of the effective date of this Agreement. All Members shall be required to attend the initial meeting.

8.2. Time and Place. The Board of Directors shall provide in its adopted bylaws or by other means authorized or required by law, for the time and place for holding regular meetings, at least quarterly, and at such other times as determined by the Board of Directors.

8.3. Conduct. All meetings of the Governing Board shall be noticed, held, and conducted in accordance with the Ralph. M. Brown Act to the extent applicable. Board Members and Alternate Board Members may use teleconferencing in connection with any meeting in conformance with and to the extent authorized by the applicable laws.

8.4. Local Conflict of Interest Code. The Board of Directors shall adopt a local conflict of interest code pursuant to the provisions of the Political Reform Act of 1974 (Government Code sections 81000, *et seq.*).

Article 9. Board of Directors Voting

9.1. Quorum. A majority of the members of the Board of Directors shall constitute a quorum for purposes of transacting business, except less than a quorum may vote to adjourn a meeting.

9.2. Director Votes. Each member of the Board of Directors of the Agency shall have one (1) vote. Except as otherwise specified in this Agreement, all affirmative decisions of the Board of Directors shall require the affirmative vote of a simple majority of all Directors participating in voting on a matter of Agency business; 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 items.

9.3. Voting on Fiscal Items. Fiscal items, approval of the annual budget of the Agency and any expenditures, and any projects shall require an affirmative vote by a majority of the Board of Directors.

Article 10. Officers

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.

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.

Article 11. Committee Formation

11.1. Internal Committee Formation. There shall be established such internal committees as the Board of Directors shall determine from time to time. Each such internal committee shall be comprised of two (2) Directors, shall exist for the term specified in the action establishing the committee, shall meet as directed by the Board of Directors, and shall make recommendations to the Board of Directors on the various activities of the Agency.

11.2. External Advisory Committee Formation. The Board of Directors may establish, as deemed necessary, one or more advisory committees comprised of diverse social, cultural, and economic elements of the population and area stakeholders within the Ukiah Valley Basin. The Board of Directors shall encourage the active involvement of the advisory committee(s) prior to and during the development and implementation of the Groundwater Sustainability Plan. The Board of Directors will ensure that at least one (1) member from the Board of Directors or Agency employee attends and participates in each advisory committee meeting.

11.3. Technical Advisory Committee. There shall be established a technical advisory committee, the purpose of which shall be to provide advice to the Board of Directors on issues of a technical nature related to the activities of the Agency. The technical advisory committee shall be comprised of at least one (1) representative of each Member; one (1) representative for each of the Agricultural Stakeholders and the Tribal Stakeholders; at least one (1) representative from the Sonoma County Water Agency; and at least one (1) representative from the Mendocino County Resource Conservation District. The technical advisory committee shall meet as directed by the Board of Directors, and shall make recommendations to the Board of Directors as requested. The role and responsibilities of the technical advisory committee will be established in a Memorandum of Understanding between the Agency, the Mendocino County Resource Conservation District, and the Sonoma County Water Agency.

Article 12. Treasurer, Controller, and Legal Counsel

12.1. Treasurer and Controller. The County of Mendocino shall act as Treasurer and Controller for the Agency. The Controller of the Agency shall cause an independent audit of the Agency's finances to be made by a certified public accountant in compliance with California Government Code Section 6505. The Treasurer of the Agency shall be the depositor and shall have custody of all money of the Agency from whatever source. The Controller of the Agency shall draw warrants and pay demands against the Agency when the demands have been approved by the Agency, or any authorized representative pursuant to any delegation of Agency adopted by the Agency. The Treasurer and Controller shall comply strictly with the provisions of statutes relating to their duties found in Chapter 5 (commencing with Section 6500) of Division 7 of Title 1 of the California Government Code.

12.2. Legal Counsel. The Board of Directors may appoint legal counsel as it deems appropriate.

Article 13. Executive Director

13.1. Appointment. The Board of Directors may hire an Executive Director who shall be compensated for his or her services, as determined by the Board of Directors. The Executive Director may, though need not be, an officer, employee or representative of one of the Members.

13.2. Duties. The Executive Director shall be the Chief Administrative Officer of the Agency, shall serve at the pleasure of the Board of Directors, and shall be responsible to the Board of Directors for the proper and efficient administration of the Agency. The Executive Director shall have the powers designated in the Bylaws.

13.3. Term and Termination. The Executive Director shall serve until he/she resigns or the Board of Directors terminates his/her appointment.

13.4. Staff. The Executive Director may employ such additional full-time and or part-time employees, assistants, and independent contractors that may be necessary from time to time to accomplish the purposes of the Agency, subject to approval of the Board of Directors. The Agency may contract with a Member or other public agency or private entity for various services, including without limitation, those related to the Agency's finances, purchasing, risk management, information technology, human resources and other technical and non-technical staff assistance as may be required. A written Agreement shall be entered between the Agency and the Member or other public agency or private entity contracting to provide such service, and that Agreement shall specify the terms on which such services shall be provided, including without limitation, the compensation, if any, that shall be made for the provision of such services.

Article 14. Specific Projects

14.1. Projects. The Agency intends to carry out activities in furtherance of its purposes and consistent with the powers established by the Agreement with the participation of all Members.

14.2. Member Specific Projects. In addition to the general activities undertaken by all Members of the Agency, the Agency may initiate specific projects or litigation that involves less than all Members. No Member shall be required to be involved in a project that involves less than all the Members.

14.3. Project Agreement. Prior to undertaking any project or litigation that does not involve all Member Agencies, the Members electing to participate in the project shall enter into a Project Agreement. A Member may elect not to participate in a specific project or litigation matter by providing notice and not entering into the Project Agreement specific to the matter in which the Member has elected not to participate. Each Project Agreement shall provide the terms and conditions by which the Members that enter into the Project Agreement will participate in the project. All assets, rights, benefits, and obligations attributable to the Project shall be assets, rights, benefits, and obligations of those Members which have entered into the Project Agreement. Any debts, liabilities, obligations, or indebtedness incurred by the Agency in regard to a particular Project shall be the debts, liabilities, obligations, and indebtedness of those Members who have executed the Project Agreement in accordance with the terms thereof and shall not be the debts, liabilities, obligations, and indebtedness of those Members who have not executed the Project Agreement. Further, to the extent the Project is litigation, the Members who have not entered into the Project Agreement shall not be named or otherwise listed in the pleadings and/or appear on litigation materials.

14.4. Board of Directors Approval. The Board of Directors shall have the authority to disapprove any Project Agreement upon a determination that the Project Agreement has specific, substantial adverse impacts upon Members that have not executed the Project Agreement.

Article 15. Budget and Expenses

15.1. Budgets. Within ninety (90) days after the first meeting of the Governing Board of the Agency, and thereafter prior to the commencement of each fiscal year, the Board of Directors shall adopt a budget for the Agency for the ensuing fiscal year.

15.2. Agency Funding and Contributions. In order to provide the needed capital to initially fund the Agency, the Agency shall be initially funded by a contribution from initial Members in the amount established in the bylaws, which contribution shall be set at an equal dollar amount for initial Members. In subsequent years, the Agency may be funded through additional voluntary contributions by all Members, and as otherwise provided in Chapter 8 of SGMA (commencing with Section 10730 of the Water Code).

Article 16. Liability and Indemnification

16.1. Liability. The Members do not intend hereby to be obligated either jointly or severally for the debts, liabilities or obligations of the Agency, except as may be specifically provided for in California Government Code Section 895.2, as amended or supplemented. Therefore unless and to the extent otherwise required by law or agreed to herein by the Members, in accordance with California Government Code Section 6507, the debts, liabilities and obligations of the Agency shall not be the debts, liabilities or obligations of the Member entities. The Agency shall own and hold title to all funds, property and works acquired by it during the term of this Agreement.

16.2. Indemnification. Funds of the Agency may be used to defend, indemnify, and hold harmless the Agency, each Member, each Director, and any officers, agents and employees of the Agency for their actions taken within the course and scope of their duties while acting on behalf of the Agency. Other than for gross negligence or intentional acts, to the fullest extent permitted by law, the Agency agrees to save, indemnify, defend and hold harmless each Member from any liability, claims, suits, actions, arbitration proceedings, administrative proceedings, regulatory proceedings, losses, expenses or costs of any kind, whether actual, alleged or threatened, including attorney's fees and costs, court costs, interest, defense costs, and expert witness fees, where the same arise out of, or are in any way attributable in whole or in part to, negligent acts or omissions of the Agency or its employees, officers or agents or the employees, officers or agents of any Member, while acting within the course and scope of a Member relationship with the Agency.

Article 17. Withdrawal and Termination

17.1. Withdrawal. A Member may unilaterally withdraw from this Agreement without causing or requiring termination of this Agreement, effective upon sixty (60) days written notice to the remaining Members.

17.2. Termination of Agency. This Agreement may be rescinded and the Agency terminated by unanimous written consent of all Members, except during the outstanding term of any Agency indebtedness.

17.3. Effect of Withdrawal or Termination. Upon termination of this Agreement or unilateral withdrawal, a Member shall remain obligated to pay its share of all debts, liabilities and obligations of the Agency required of the Member pursuant to the terms of this Agreement which were incurred or accrued prior to the date of such termination or withdrawal, including without limitation, those debts, liabilities and obligations pursuant to Section 5.2.11. Any Member that withdraws from the Agency shall have no right to participate in the business and affairs of the Agency, or to exercise any rights of a Member under this Agreement or the Act, but shall continue to share in distributions from the Agency on the same basis as if such Member had not withdrawn, provided that a Member that has withdrawn from the Agency shall not receive distributions in excess of the contributions made to the Agency while a Member. The right to share in distributions granted under this section shall be in lieu of any right the withdrawn Member may have to receive a distribution or payment of the fair value of the Member's interest in the Agency.

17.4. Disposition of Agency Assets upon Termination.

17.4.1. Surplus Funds. Upon termination of this Agreement, any reserves or surplus money on-hand shall be returned to the Members in the same proportion said Members have funded such reserves or surplus, in accordance with California Government Code section 6512.

17.4.2. Agency Property. The Agency shall first offer any assets of the Agency for sale to the Members on terms and conditions determined by the Board of Directors. If no such sale to Members is consummated, the Board shall offer the assets of the Agency for sale to any non-member for good and adequate consideration on terms and conditions determined by the Board of Directors.

Article 18. Miscellaneous

18.1. No Predetermination or Irretrievable Commitment of Resources. Nothing in this Agreement shall constitute a determination by the Agency or any of its Members that any action shall be undertaken or that any unconditional or irretrievable commitment of resources shall be made, until such time as the required compliance with all local, state, or federal laws, including without limitation the California Environmental Quality Act, National Environmental Policy Act, or permit requirements, as applicable, has been completed.

18.2. Notices. Notices hereunder shall be sufficient if delivered via electronic mail, First-Class mail to the addresses below:

Russian River Flood Control and Water Conservation Improvement District: 151
Laws Avenue, Suite D, Ukiah, CA 95482
County of Mendocino: 501 Low Gap Road, Room 1010, Ukiah, CA 95482
City of Ukiah: 300 Seminary Avenue, Ukiah, CA 95482
Upper Russian River Water Agency: 151 Laws Avenue, Ukiah, CA 95482

18.3. Bylaws. At, or as soon as practicable after the first Board of Directors meeting the Board of Directors shall draft and approve Bylaws of the Agency to govern day-to-day operations of the Agency.

18.4. Amendment. This Agreement may be amended at any time, by mutual agreement of the Members, provided that before any amendments shall be operative or valid, it shall be reduced to writing and signed by all Members hereto.

18.5. Agreement Complete. This Agreement constitutes the full and complete Agreement of the Members. This Agreement supersedes all prior Agreements and understandings, whether in writing or oral, related to the subject matter of this Agreement that are not set forth in writing herein.

18.6. Severability. If any provision of this Agreement is determined to be invalid or unenforceable, the remaining provisions will remain in force and unaffected to the fullest extent permitted by law and regulation.

18.7. Execution in Counterparts. The Parties intend to execute this Agreement in counterparts. It is the intent of the Parties to hold one (1) counterpart with single original signatures to evidence the Agreement and to thereafter forward three (3) other original counterparts on a rotating basis for all signatures. Thereafter, each Member shall be delivered an originally executed counterpart with all Member signatures.

18.8. Withdrawal by Operation of Law. Should the participation of any Member to this Agreement be decided by the courts to be illegal or in excess of that Member's authority or in conflict with any law, the validity of this Agreement as to the remaining Members shall not be affected thereby.

18.9. Assignment. The rights and duties of the Members may not be assigned or delegated without the written consent of all other Members. Any attempt to assign or delegate such rights or duties in contravention of this Agreement shall be null and void.

18.10. Binding on Successors. This Agreement shall inure to the benefit of, and be binding upon, the successors or assigns of the Members.

18.11. Other Joint Power Agreements. Nothing in this Agreement shall prevent the Members from entering into other joint exercise of power Agreements.

[Signature Pages Below]

IN WITNESS WHEREOF, the parties hereto execute this Agreement as of the Effective Date.

COUNTY OF MENDOCINO


By: 
JOHN MCCOWEN, Chair
BOARD OF SUPERVISORS

Date: APR 18 2017

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

ATTEST:

CARMEL J. ANGELO, Clerk of said Board

By: 
Deputy
APR 18 2017

Date: _____

I hereby certify that according to the provisions of Government Code Section 25103, delivery of this document has been made.

CARMEL J. ANGELO, Clerk of said Board


By: 
Deputy

Date: APR 18 2017

COUNTY COUNSEL REVIEW:

APPROVED AS TO FORM:

KATHARINE L. ELLIOTT,
County Counsel


By: 
Deputy

Date: 4/18/17

DEPARTMENT FISCAL REVIEW:


DEPARTMENT HEAD

FISCAL REVIEW


Deputy CEO/Fiscal

**INSURANCE REVIEW:
RISK MANAGER**

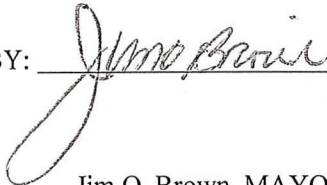

ALAN D. FLORA
RISK MANAGER

**EXECUTIVE REVIEW:
APPROVAL RECOMMENDED**


CARMEL J. ANGELO
CHIEF EXECUTIVE OFFICER

IN WITNESS WHEREOF, the parties hereto execute this Agreement as of the Effective Date.

CITY OF UKIAH


BY: 
Jim O. Brown, MAYOR

5.10.17
Date

BY: 
CITY MANAGER

5-10-17
Date

ATTEST


CITY CLERK

5-10-17
Date

IN WITNESS WHEREOF, the parties hereto execute this Agreement as of the Effective Date.

Russian River Flood Control and Water Conservation Improvement District

By: William Carson


Date: 4/10/17

William Carson, President

Board of Trustees

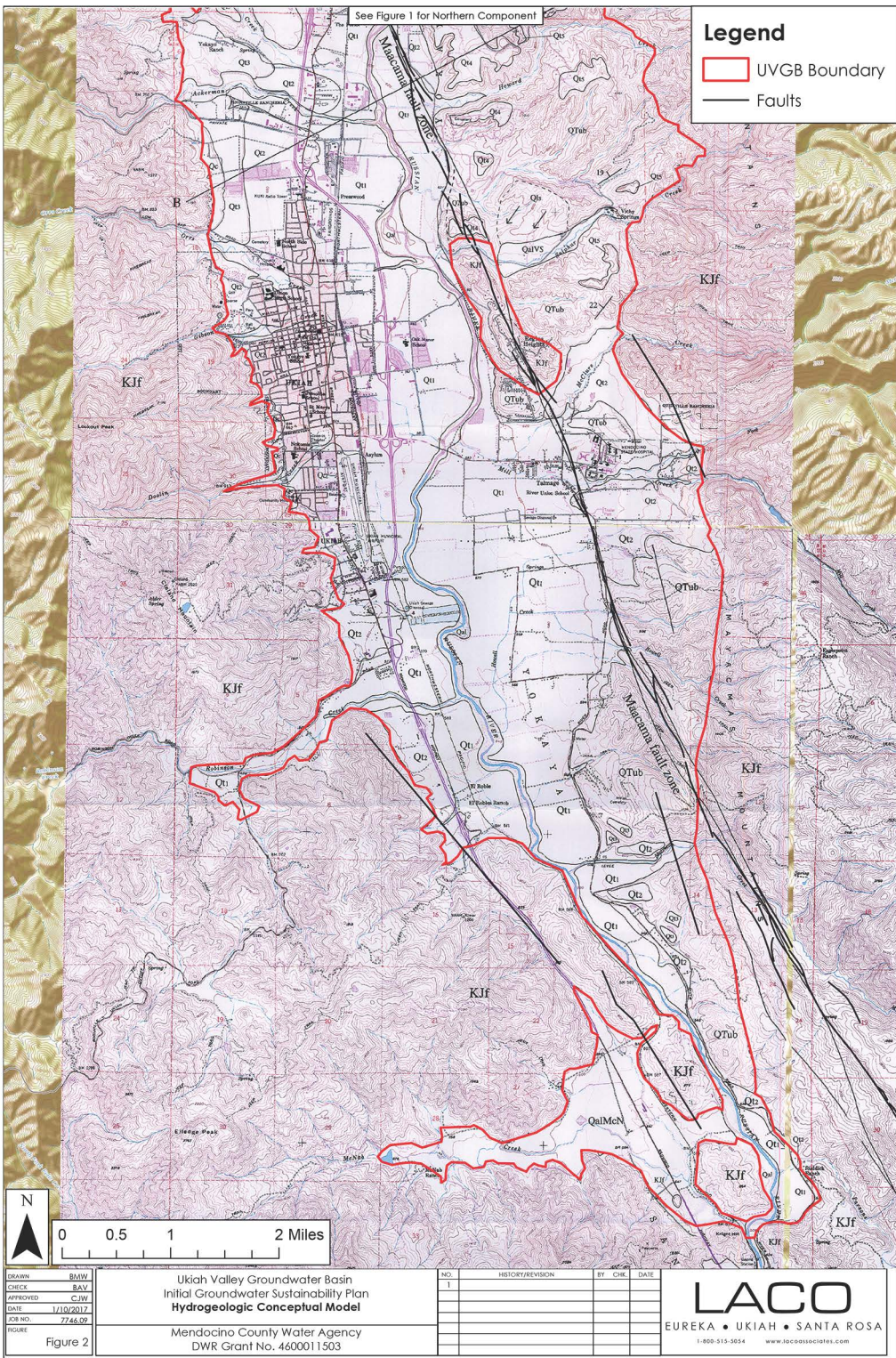
IN WITNESS WHEREOF, the parties hereto execute this Agreement as of the Effective Date.

Upper Russian River Water Agency

By: 
Jerry Cardoza, President

Date: 4-5-17

Board of Directors



Map Symbols	Description of Geological Units
Qal	Quaternary Alluvium: silt, sand and gravel deposits in modern stream channels
Qls	Landslide
Qc	Colluvium
Qt1	Youngest Strath Terrace: alluvial terraces identified by their geomorphic and topographic expression. 1-3 m thickness of gravel alluvium on top of strath surface
Qt2	Strath terrace: alluvial terraces identified by their geomorphic and topographic expression. 2-4 m thickness of gravel alluvium on top of strath surface
Qt3	Strath terrace: alluvial terraces identified by their geomorphic and topographic expression. 3-5 m thickness of gravel alluvium on top of strath surface
Qt4	Strath terrace: alluvial terraces identified by their geomorphic and topographic expression. 4-7 m thickness of gravel alluvium on top of strath surface
Qt5	Oldest Strath Terrace: more dissected than the younger terraces 4-7 m thickness of gravel alluvium on top of strath surface
KJf	Planated bedrock (KJ) surface with no alluvial cover
QalVS	Vichy Springs: gravel, sand, silt and clay alluvial deposits in isolated valley
QalMcN	McNab Ranch: gravel, sand, silt and clay alluvial deposits in isolated valley
QalCR	Crawford Ranch: gravel, sand, silt and clay alluvial deposits in isolated valley
QalMcD	Mc Dowell Valley: gravel, sand, silt and clay alluvial deposits in isolated valley
QTub	Ukiah Basin deposits: gravel, sand, silt, and clay (Continental deposits of Cardwell (1965))
KJf	Franciscan Formation: sandstone, shale, conglomerate, siltstone, chert, schist, greenstone and serpentinite

Legend

- UVGB Boundary
- Faults

Basin Description

The Ukiah Valley Groundwater Basin (UVGB) includes the city of Ukiah and the towns of Redwood Valley, Talmage, Calpella, Laughlin, and El Roble. According to the Department of Water Resources (DWR) Bulletin 118, the UVGB has an area of approximately 60 square miles. The UVGB boundary illustrated in Figures 1 and 2 has been modified from the DWR boundary map based on the presented Larsen and Kelsey geologic map. The boundary defines the interface between the alluvial water-bearing geologic deposits and the surrounding bedrock formations.



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CR NO.	7746.09
FIGURE	

Ukiah Valley Groundwater Basin Initial Groundwater Sustainability Plan Hydrogeologic Conceptual Model

Mendocino County Water Agency
DWR Grant No. 4600011503

See Figure 2 for Southern Component

NO.	HISTORY/REVISION	BY	CHK.	DATE
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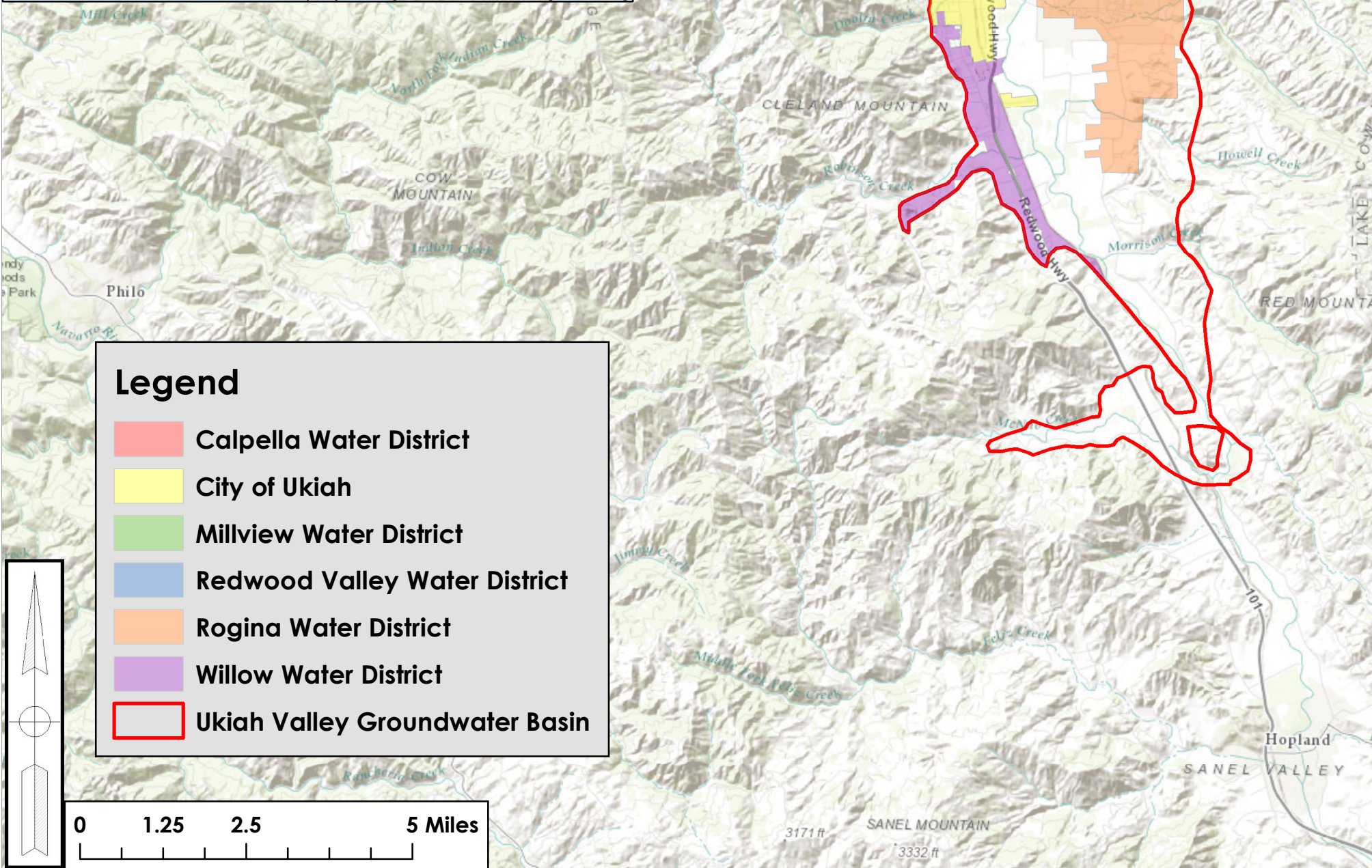
Attachment 3: UVBGSP Project Justification

The Ukiah Valley Basin Groundwater Sustainability Agency (UVBGA) is the implementing agency and will apply a collaborative, multi-stakeholder planning process to prepare and adopt the Ukiah Valley Groundwater Sustainability Plan (UVBGSP) pursuant to the Sustainable Groundwater Management Act (SGMA) and California Department of Water Resources (DWR) SGMA Regulations. The Ukiah Valley planning area includes the entire groundwater basin consistent with DWR Bulletin 118 and the accepted DWR boundaries. Figure 1 shows the geographical location of the project, service areas of UVBGA members, the basin boundary (per DWR Bulletin 118), and related regional water features. Figure 2 presents the disadvantaged communities (DACs), severely disadvantaged communities (SDACs), and economically distressed areas (EDAs) within the UVBGA area.

The documented undesirable result from groundwater extraction in the Ukiah Valley Groundwater Basin (UVGB) is associated with surface water-groundwater interaction. The Russian River provides important habitat for federal- and state-listed anadromous fish, and flows of the Russian River and its tributaries are heavily influenced by groundwater elevations. The primary objective of the UVBGSP is to develop programs, projects, and policies to ensure that the Russian River and tributary flows are maintained at sufficient and viable levels to provide adequate habitat for long-term sustainability of fish and wildlife. Additionally, water availability has long been an issue in the planning area, especially after multiple dry years, and is a likely constraint to future development, complicating the legal, environmental, political, and socioeconomic issues. The development of a comprehensive UVBGSP will aid in smart planning that enables growth without causing undesirable effects to surface water and groundwater.

The UVBGA will use the UVBGSP to preserve and enhance the economic and environmental health and well-being for the Ukiah Valley through the regional stewardship and comprehensive management of water and groundwater resources in a practical, cost-effective, sustainable, and responsible manner. The Phase 2 work plan builds on Phase 1 work conducted under the DWR Stressed Basins Grant. Phase 1 work included compiling surface water and groundwater data, preparing a data gap analysis, production of a groundwater monitoring protocol manual, engaging stakeholders, initial development of the hydrogeologic conceptual model (HCM) and water budget, preliminary identification of undesirable results, minimum thresholds, measurable objectives, and an action plan including a list of projects and actions. Proposed Phase 2 work includes:

- Further engaging stakeholders and the community
- Developing final sustainability goals, measurable objectives, metrics, and sustainability indicators
- Finalizing the technical analysis, including completion of the hydrogeologic conceptual model, water budget (MODFLOW- 2005 transient model) and related tasks
- Addressing water supply and quality needs of the region and its disadvantaged communities (DACs)
- Identifying and screening projects, policies and programs to be implemented
- Defining current and future water budgets under the 'no action' and preferred alternative, both with and without climate change
- Developing a preferred alternative for the GSP implementation plan
- Establishing key milestones, schedules, and stable funding
- Integrating water supply and land use plans and programs
- Drafting and finalizing the UVBGSP to ensure the long-term sustainability of the Ukiah Valley Basin's water supply and the continued resiliency of the Russian River ecosystem
- Developing a roadmap for the region's future over a 50-year planning horizon

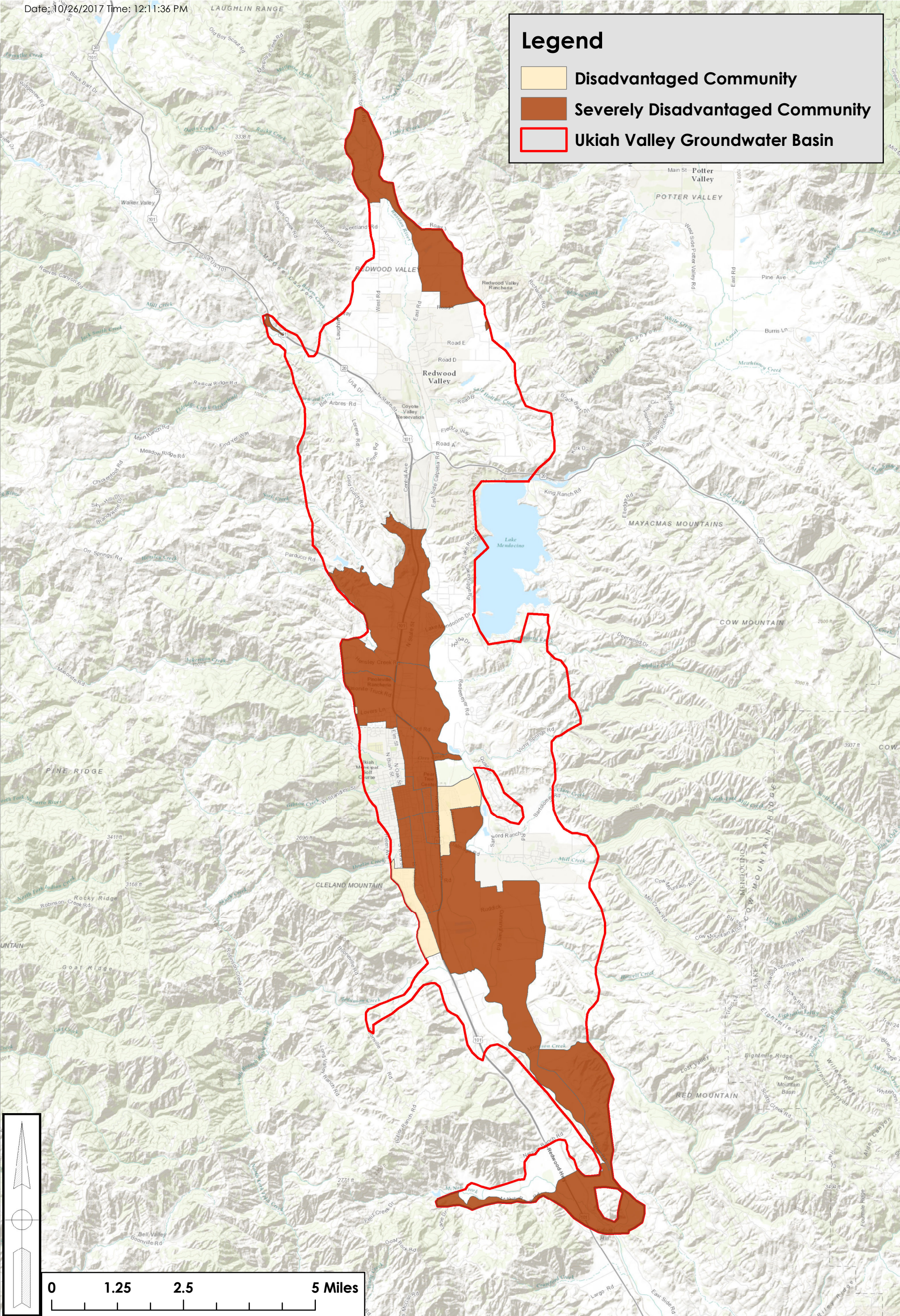


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FIGURE	Figure 1

Ukiah Valley Groundwater Basin Category 2 Grant Proposal Overview Map	
Mendocino County Water Agency DWR Grant No. 4600011503	

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JOB NO.	7746.09
FIGURE	Figure 2

Ukiah Valley Groundwater Basin Category 2 Grant Proposal Disadvantaged Community Map	
Mendocino County Water Agency DWR Grant No. 4600011503	

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Technical Need

Groundwater levels within the Ukiah Basin are intimately tied to the Russian River surface water flows. During the dry season when well elevations are much lower, as evidenced from CASGEM monitoring, Russian River and tributary flows are also decreased. The decreased groundwater levels likely influence the base flow of the Russian River. Much of the flow during the summer months is maintained by controlled reservoir releases at Coyote Dam from Lake Mendocino Reservoir. However, elevations in the Reservoir have been declining and the last several drought years caused a reduction in volumes being released into the Russian River. There is the potential that flows from the Potter Valley Project, which diverts Eel River water into the Russian River, may be decreased in the future. Thus, a sustainable groundwater management plan that can achieve sustained base flows of the Russian River is desired to preserve essential habitat for fish, birds, and other species dependent on these flows to survive. This will also help local residents and the state coordinate compliance with frost-protection regulations mandated by the State Water Resources Control Board in their Amended Section 862 to the Division 3 of Title 23 of the California Code of Regulations.

Currently, no groundwater management plans exist for the basin. The UVBGSP will support integration of land use and water supply plans consistent with state law and local policy. Several planning documents, such as the Ukiah Valley Area Plan (UVAP), list groundwater as a chief priority. The UVAP states that “water availability has long been an issue in the Ukiah Valley and is a likely constraint to future development in the valley (6-3).” The UVAP lists various conservation strategies that seek to mitigate or reduce undesirable effects, and outlines several goals under the water management section for the Ukiah Valley. The first goal is to “promote efforts to protect and increase water supply storage and capacity.” Under this goal, several policies are outlined that further support the need for the development of a comprehensive groundwater management plan, including the Groundwater Stewardship Plan Policy that directs the county to assemble baseline information that describes the existing conditions of the Valley’s groundwater system (quality, quantity, demand, and resupply), and a comprehensive groundwater protection program with specific protection and mitigation measures.

The importance of groundwater (GW) / surface water (SW) interaction for maintaining surface water flows and the health of the Russian River biota is widely known and publicized, but very little data has been collected about how the aquifer functions, and how it will respond to changing climatic conditions, demands, and water quality pressures. The degree to which the basin is stressed is unknown because of the lack of long-term data. This is a primary concern and chief reason that Mendocino County is applying for grant funding. The grant funding will make it possible to collect basin data, develop a hydrogeologic conceptual model and water budget, engage the community, and adopt a UVBGSP to increase water supply storage and capacity, achieve groundwater elevation sustainability, and avoid undesirable results related to surface water because of groundwater use.



Project Support

The Ukiah Basin area is in the upper reaches of the Russian River watershed and is not hydrogeologically connected with any other groundwater basins except for the Sanel Valley Groundwater Basin down-gradient in Southern Mendocino County. The Sanel Valley Groundwater Basin borders the McDowell Valley Groundwater Basin to the east. Both down-gradient basins are currently ranked as very-low priority and are bounded by impermeable bedrock to the south, east, and west. The undesirable result of streamflow depletion is the primary concern of downstream consumers of Russian River flow in Sonoma County. The Sonoma County Water Agency controls Coyote Valley releases during the summer, which maintain minimum flows for salmonid habitat. The Sonoma County Water Agency has been invited to participate on the UVBGSA Technical Advisory Committee (TAC) to share technical expertise and provide guidance on limiting streamflow depletion because of groundwater pumping. UVBGSA will ensure close cooperation and communications regarding common methods, data, and assumptions used during the technical analysis.

A list of interested parties (see attached List of Beneficial Uses and Users of Groundwater¹) was developed pursuant to water code. This list was used to solicit support for the UVBGSA and to notify persons of the formation of the UVBGSA and proposal to develop the UVBGSP. All hearings to form the UVBGSA Joint Powers Agreement (JPA); to adopt resolutions to apply for the DWR Proposition 1 GSP Grant; and to establish bylaws, conflicts of interest requirements, and the proposed budget; were noticed and open to the public.

During the UVBGSA development process, the County of Mendocino held nine public Formation Committee meetings. Minutes and agendas for these meetings are available at the County's UVBGSA web page². Dedicated outreach to the area's Native American tribal communities was conducted to obtain their unique input and participation. The Agency and other stakeholders' roles and responsibilities are identified in the JPA and bylaws. In addition, the Agency has an Agricultural and Tribal seat on its Board of Directors. The TAC includes staff from the Member organizations, Sonoma County Water Agency, the Mendocino County Resource Conservation District, the California Land Stewardship Institute, local agricultural water users, and tribes.

Letters of support from stakeholders and the members of the UVBGSA are also attached.

¹ BU Stakeholder List UVB 6.15.17 AgendaPacket.pdf

² <https://www.mendocinocounty.org/government/affiliated-agencies/ukiah-valley-basin-gsa>

UKIAH VALLEY BASIN (1-52)

LIST OF BENEFICIAL USES AND USERS OF GROUNDWATER

Pursuant to Water Code Sections 10723.8(a)(4) and 10723.2, the Agency will consider the interests of all beneficial uses and users of groundwater, as well as those responsible for implementing a Sustainability Plan. These interests include, but are not limited to, all of the following:

- Agricultural Users
 - Mendocino County Farm Bureau
 - Mendocino County Wine Growers Association
 - Landowners
- Domestic Well Owners
 - Private well owners
 - CASGEM participants
- Commercial and Industrial Users
 - There are no known commercial and industrial users of groundwater within the GSA. However the Agency will work with interested parties when developing a GSP.
- Municipal Well Operators
 - City of Ukiah
- Public Water Systems
 - Russian River Flood Control
 - Upper Russian River Water Agency
 - Redwood Valley County Water District
 - Millview County Water District
 - Willow County Water District
 - Calpella County Water District
 - Sonoma County Water Agency
- Land Use Planning Agencies
 - County of Mendocino
 - City of Ukiah
- Surface Water Users
 - Russian River Flood Control
 - Redwood Valley County Water District
 - Millview County Water District
 - Willow County Water District
 - Calpella County Water District
 - Sonoma County Water Agency
 - City of Ukiah
 - Landowners
- Resource Management
 - Mendocino County Resource Conservation District
- State Agencies

- UC Davis and its Cooperative Extension
 - California Department of Water Resources
 - North Coast Regional Water Quality Control Board
- Federal Agencies
 - There are no known Federal Agency users of groundwater within the GSA. However the Agency will work with interested parties when developing a GSP.
- Other Government Agencies
 - Inland Water and Power Commission
- California Native American Tribes
 - Redwood Valley Rancheria
 - Coyote Valley Reservation
 - Pinoleville Pomo Nation
 - Potter Valley Rancheria
 - Gudiville Rancheria
 - Hopland Reservation.
- Private Water Companies
 - City of 10,000 Buddhas
 - Rogina Water Company
 - Yokayo Water Systems
- Ukiah Valley Basin Residents
- Disadvantaged Communities
 - Portions of the Ukiah Valley Basin
- Environmental Interest
 - There are no known environmental users of groundwater within the GSA. However the Agency will work with interested parties when developing a GSP.

During the GSA development process the County of Mendocino held nine Formation Committee meetings. All Formation Committee meetings were open to the public. The specific entities mentioned above participated during the formation process. The Agency's and other stakeholders' roles and responsibilities will be further developed and defined in its Bylaws and the Sustainability Plan. The Agency's staff welcomes feedback during this process from the state, any of the agencies or organizations listed herein, and any other interested stakeholders.

In addition the Agency has an Agricultural and Tribal seat on the Board of Directors and a Technical Advisory Committee pursuant to the Joint Powers Agreement attached under section E-3. The GSA will regularly conduct publicly noticed meetings in which stakeholders and interested parties will be invited to participate in the decision making process (e.g. development of a GSP, grant applications, etc.). The above list represents the initial group of interested parties that have been identified; however, it is possible that this list will grow over time as basin management becomes more defined.



Mendocino County

Resource Conservation District

November 7, 2017

Director Carre Brown, Chair
Ukiah Valley Basin Groundwater Sustainability Agency
501 Low Gap Road, Room 1010
Ukiah, CA 95482

RE: Letter of Support – Sustainable Groundwater Planning Grant

Dear Chair Brown:

The Mendocino County Resource Conservation District (MCRCD) is pleased to support the Ukiah Valley Basin Groundwater Sustainability Agency (UVBGS) as it leads the continuing effort to improve groundwater management practices in the region. MCRCD enthusiastically supports the submittal of an application by Mendocino County on behalf of the UVBGS to the Department of Water Resources for a Sustainable Groundwater Planning Grant, available through Proposition 1, to encourage sustainable management of groundwater that supports the Sustainable Groundwater Management Act (SGMA).

The UVBGS will use the funds to develop a Ukiah Valley Groundwater Sustainability Plan (UVGSP) to preserve and enhance the economic and environmental health and well-being for the Ukiah Valley through comprehensive management of water and groundwater resources in a practical, cost-effective, sustainable and responsible manner. The proposal builds on previous work conducted by Mendocino County under the Department of Water Resources' Counties with Stressed Basins Grant and will enable the development of an UVGSP that ensures the long-term sustainability of the Ukiah Valley Basin's water supply and the continued resiliency of the Russian River ecosystem.

The MCRCD has been part of the Groundwater Sustainability Agency process since its inception and is on the technical advisory board for the UVBGS. Our agency has been impressed with the collaborative nature of the GSA formation process and are therefore confident that a Sustainable Groundwater Planning Grant will be used to its maximum efficiency. The Ukiah Valley Basin includes streams near the headwaters of the Russian River, a watershed that provides water to over 600,000 people in the North Bay. The funds from this grant will be greatly beneficial in helping our rural region meet the sustainability goals set forth in SGMA and create an effective Groundwater Sustainability Plan that will benefit the entire watershed.

We hope the State recognizes the important and beneficial effort that is occurring in the Ukiah Valley, and awards a Sustainable Groundwater Planning Grant to the Ukiah Valley Basin Groundwater Sustainability Agency. Thank you again for your leadership on this important issue that affects all sectors of life in the Ukiah Valley.

Sincerely,

Joe Scriven
Interim Executive Director



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

November 7, 2017

Director Carre Brown, Chair
Ukiah Valley Basin Groundwater Sustainability Agency
501 Low Gap Road, Room 1010
Ukiah, CA 95482

RE: Letter of Support – Sustainable Groundwater Planning Grant

Dear Chair Brown:

The Mendocino County Farm Bureau (MCFB) supports the Ukiah Valley Basin Groundwater Sustainability Agency (UVBGSA) as it leads the continuing effort to determine groundwater management needs in the region as related to the requirements of the Sustainable Groundwater management Act (SGMA). As a result, MCFB endorses the submittal of an application by Mendocino County on behalf of the UVBGSA to the California Department of Water Resources for a Sustainable Groundwater Planning Grant available through Proposition 1.

The UVBGSA will use the funds to develop an Ukiah Valley Groundwater Sustainability Plan (UVGSP). The intent of the UVGSP is to preserve and enhance both the economic and environmental well-being for the Ukiah Valley through comprehensive management of groundwater resources in a practical, cost-effective, sustainable and responsible manner. The current proposal focuses on the development of an UVGSP to ensure the long-term sustainability of the Ukiah Valley Basin's water supply and will build on previous work conducted by Mendocino County under the California Department of Water Resources' Counties with Stressed Basins Grant.

MCFB, along with the region's water management community, has successfully worked together for the past two years to develop the UVBGSA. Our organization along with the member organizations of the UVBGSA and the community will benefit from the comprehensive planning actions that are included in the grant application. MCFB will continue to participate in the collaborative process to develop the UVGSP. The funds from this grant will be advantageous in helping our rural region meet the sustainability goals set forth in SGMA.

MCFB encourages the California Department of Water Resources to award a Sustainable Groundwater Planning Grant to the region so that the SGMA compliance efforts that are occurring in the Ukiah Valley can continue.

Sincerely,

Frost Pauli
President



UKIAH VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY

501 Low Gap Rd., Rm. 1010 ♦ Ukiah ♦ California 95482 ♦ (707)463-4441 ♦ fax (707)463-7237

November 9, 2017

Director Grant Davis
Department of Water Resources
1416 9th Street
Sacramento, CA 95814

RE: Letter of Support – Sustainable Groundwater Planning Grant

Dear Director Davis:

In May of 2017, the Ukiah Valley Basin Groundwater Sustainability Agency (UVBGSA) was created to lead the continuing effort to improve groundwater management practices in the region. The UVBGSA members represent the Upper Russian River Water Agency, Russian River Flood Control and Water Conservation and Improvement District, City of Ukiah, and Mendocino County. In addition, our organization has two Stakeholder Directors representing the tribal and agricultural community.

The UVBGSA supports the submittal of an application by Mendocino County, on behalf of the UVBGSA, to the Department of Water Resources for a Sustainable Groundwater Planning Grant available through Proposition One to encourage sustainable management of groundwater that supports the implementation of the Sustainable Groundwater Management Act (SGMA).

The UVBGSA will utilize the funds to develop a Ukiah Valley Groundwater Sustainability Plan (UVGSP) to preserve and enhance the economic and environmental health and well-being for the Ukiah Valley through the regional stewardship and comprehensive management of water and groundwater resources in a practical, cost-effective, sustainable and responsible manner. The proposal will build on previous work conducted by Mendocino County under the Department of Water Resources' Counties with Stressed Basins Grant. The proposal focuses on the development of an UVGSP to ensure the long-term sustainability of the Ukiah Valley Basin's water supply, and the continued resiliency of the Russian River ecosystem. The UVGSP will provide a roadmap for the region's future over a 50 year planning horizon.

The region's water management community has successfully worked together for the past two years to develop this new organization. The UVBGSA, along with our community partners and stakeholders will benefit from the comprehensive planning actions that are included in the grant application. The funds from this grant would be extremely beneficial in helping our rural region meet the sustainability goals set forth in SGMA.

We hope the State recognizes the important and beneficial effort that is occurring in the Ukiah Valley and awards a Sustainable Groundwater Planning Grant to the region. Thank you again for your leadership on this important issue that affects all sectors of life in the Ukiah Valley.

Sincerely,

A handwritten signature in blue ink, appearing to read "Carre Brown", is written over a horizontal line.

Carre Brown, Chair
Ukiah Valley Basin Groundwater Sustainability Agency



Attachment 4: UVBGSP Work Plan

The Ukiah Valley Basin Groundwater Sustainability Agency (UVBGSA) will apply a collaborative, multi-stakeholder planning process to prepare and adopt the Ukiah Valley Groundwater Basin Sustainability Plan (UVBGSP) pursuant to the Sustainable Groundwater Management Act (SGMA) and California Department of Water Resources (DWR) SGMA Regulations. The UVBGSP will define regional projects, policies, and programs; identify and address water supply and quality needs of the region and its disadvantaged communities (DACs) and tribal entities; consider the effects of climate change; and will be adopted to provide a roadmap for the region's future, using a 50-year planning horizon.

Purpose

Beyond complying with SGMA, the primary purpose of UVBGSA is to preserve and enhance the economic and environmental health and well-being for the Ukiah Valley through regional stewardship and comprehensive management of water and groundwater resources in a practical, cost-effective, sustainable, and responsible manner.

This objective shall be obtained by developing and adopting minimum thresholds, interim milestones, and measurable objectives that mitigate and avoid undesirable results from changes in climate, diverted water supply, and groundwater extraction. Minimum thresholds will be maintained through community engagement during the preparation of the UVBGSP, and through technical projects and programs that address groundwater issues and management of surface water (SW) / groundwater (GW) interaction. Current challenges include the effects of groundwater pumping and surface diversions on Russian River flows, maintaining a healthy fishery and riparian corridor, regulatory requirements regarding the continued operation of water supply diversions (Potter Valley Project, Lake Mendocino), biological opinions, and State Water Board decisions.

Phased Approach

The UVBGSP Phase 2 Work Plan proposes to build on the existing work and body of knowledge from Phase 1 work conducted under the Department of Water Resources (DWR) Counties with Stressed Basins Grant.

Phase 1 resulted in the formation of the UVBGSA and established the foundation for development of the UVBGSP. Phase 1 included compiling existing data (Task 3.1), a data gap analysis (Task 3.2), Monitoring Program Manual and Protocol (Task 3.3), a preliminary draft water budget using MODFLOW-2005 (Task 3.3), 2), a draft Hydrogeologic Conceptual Model (HCM) (fulfilling the grant requirement to prepare a technical memorandum describing aquifer conditions); and a draft report describing measurable objectives, numeric thresholds, interim milestones, sustainability goals, and a preliminary list of potential projects and actions (Task 3.5). Table 1 below shows the status of the current Phase 1 work and anticipated Phase 2 work needed to complete the tasks, ensuring there will be no duplication of work across the two phases.

Table 1: Phase 1 Stressed Counties Grant Tasks, Deliverables, and Additional Work

Phase 1 Task	Deliverables/Status	Additional Work for Phase 2
Task 3.1 Compilation of Existing Data	<ul style="list-style-type: none">• Technical memorandum on aquifer conditions• Database of historical groundwater	<ul style="list-style-type: none">• Compile digital maps• Produce GIS layer• Capture data to fill data



	<ul style="list-style-type: none"> elevation data Estimate of current water demand <u>Status</u>: Complete per scope, but data gaps and additional to be filled to complete GSP elements 	<ul style="list-style-type: none"> gaps Forecast future demand and scenarios (e.g.; w/ & w/o conservation)
Task 3.2 Data Gap Analysis on Surface Water / Groundwater Interaction	<ul style="list-style-type: none"> Gap analysis technical memorandum <u>Status</u>: Complete SW/GW data gap analysis. Submitted and accepted by DWR 	<ul style="list-style-type: none"> Design monitoring to fill data gaps TAC Review
Task 3.3 Monitoring Protocol Manual Development	<ul style="list-style-type: none"> Monitoring protocol manual, and Quality Assurance Project Plan (QAPP) <u>Status</u>: Complete. Submitted accepted by DWR 	<ul style="list-style-type: none"> TAC Review
Task 3.4 Water Budget Development	<ul style="list-style-type: none"> Draft water budget model, estimate of sustained yield, preliminary water budget <u>Status</u>: Draft nearing completion. Includes transient, spreadsheet budget, and preliminary MODFLOW calibration 	<ul style="list-style-type: none"> TAC review Final historical water budget analysis Future baseline water budget Climate change scenario
Task 3.5 Development of Sustainable Management Criteria	<ul style="list-style-type: none"> List of measurable objectives, numeric thresholds, interim milestones, and sustainability goals Planning and implementation timeline for meeting measurable objectives Preliminary action plan, including a list of projects and actions <u>Status</u>: Preliminary draft. Will be refined with the MODFLOW analysis of future baseline, TAC review, and UVBGS input 	<ul style="list-style-type: none"> TAC Review Board and community acceptance Project, program, and policy analysis and definition Preferred approach and final implementation plan and funding

Phase 2 includes additional technical analysis to fill data gaps and to develop the Basin Setting component of the GSP requirements, to complete DWR requirements under SGMA, and projects and programs to answer management questions and address issues identified by the UVBGS. There was no Technical Advisory Committee (TAC) during Phase 1, so Phase 2 includes TAC formation, review of Phase 1 work products, and review and oversight of the technical deliverables produced during Phase 2. Phase 2 work includes:

- Form and manage the TAC
- Further engage the stakeholders and community
- Develop a complete description the plan area
- Develop final sustainability goals, measurable objectives, metrics, sustainability indicators and thresholds
- Finalize the technical analysis, including completion of the hydrogeologic conceptual model, water budget, and related tasks to address the requirements of the basin setting component of the SGMA emergency regulations



- Extend the transient MODFLOW-2005 model to utilize 50 years of past hydrologic data to develop future scenarios with projections of future hydrology based on climate change analysis, land use, and water supply; and analyze the impacts of proposed projects and programs
- Identify projects, policies, and programs to be implemented
- Establish key implementation milestones and schedules, and provide stable funding
- Identify key management areas based on surface water / groundwater interaction sensitivity and expand the current groundwater monitoring network
- Integrate water supply and land use plans and programs
- Draft and finalize the UVBGSP to ensure long-term sustainability of the Ukiah Valley Basin's water supply and the continued resiliency of the Russian River ecosystem

Planning Process

The UVBGSA planning process is task- and deliverable-oriented to drive the schedule, but intends to be flexible and allow the process to move forward through a series of incremental decisions.

The UVBGSA will use a “rolling wave” planning process with the intent of addressing and resolving the complex issues of the Ukiah Basin. The rolling wave process is designed to be dynamic and flexible to accommodate negotiations and adapt to the evolving UVBGSA dialog. The process starts with definition of goals and objectives and conceptual solutions, successively adding greater levels of detail, ultimately defining specific actions to be integrated and implemented. To meet the Ukiah region's needs and the DWR Regulations, there are four (4) functional work elements that contain eighteen (18) total tasks. The work elements are:

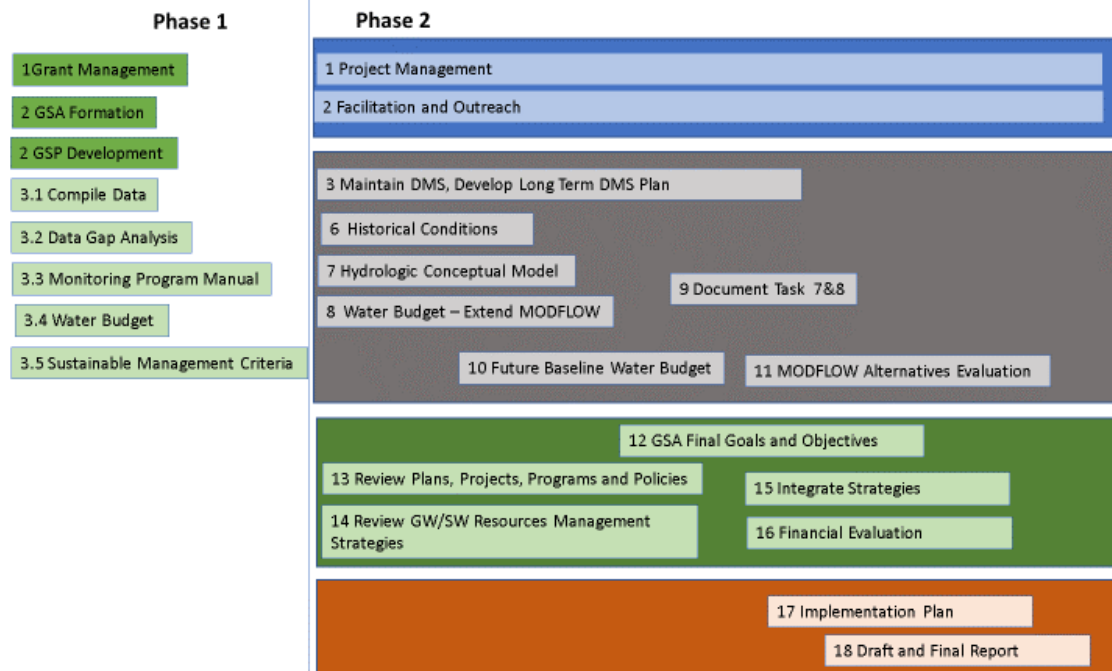
- Project Management, Communication, and Facilitation
- Technical Analysis and Support
- Project/Program/Policy Analysis
- UVBGSP Preparation

The figure below shows the relationship of the work elements and tasks and between Phase 1 and 2. The results of Technical Analysis and the Project/Program/Policy Elements will be conducted on a parallel path. Interim results will be documented in technical memorandums to support incremental decisions. The TAC will review the technical work products and advise the UVBGSA, committees, and work groups. The interim work products will enable the Project Management Team (PMT) to support UVBGSA decisions at key milestones to gain consensus, and the interim deliverables will influence the eventual UVBGSP.



Mendocino County

Sustainable Groundwater Planning Grant Program



Integration and Collaboration with Other Russian River Efforts

UVBGSP development will coordinate with other studies in the Russian River to leverage the data collected, to develop databases, and to analyze results and modeling. The coordination of this effort will support use of common methods, data, and assumptions. UVBGSA members are party to a *Cooperative Agreement to Provide Funding and Support for the Hydrologic Characterization and a Coupled Watershed and Groundwater Flow Model of the Russian River (Russian River Cooperative Agreement)*. Terms of the agreement are from October 1, 2016 and October 31, 2021. In addition to local money, funding is also provided by the State Water Resources Control Board (SWRCB) and US Geological Survey (USGS). The USGS will address significant issues of stream-aquifer interaction and develop new, transferable tools for analyzing multi-basin water management. This includes development of a geodatabase, climate change runoff estimates and a watershed model, reservoir operations tools, and coupled surface water / groundwater (SW / GW) model using GSFLOW. During Phase 1, data was provided to the USGS by the Mendocino County Water Agency project team. This data included well pump extraction locations, rates, water level measurements; land use and soil data; and previous studies and documents related to hydrogeology, geology, land use, water supply and demand, and SW / GW interaction.

The UVBGSA is moving forward on a faster timeline to meet SGMA requirements and is further along than the study under the Russian River Cooperative Agreement. To be cost effective, the UVBGSA will work to leverage these other local, state, and federal investments; exchange data; and be an active partner in the USGS efforts. For example, the Russian River Independent Science Review Panel (ISRP) was formed by interests in Mendocino and Sonoma County to collect existing studies and data, promulgate a “conceptual model” of groundwater/stream flow processes, and evaluate the relationship



between stream flow processes and salmonid habitat¹. In addition to being referenced in the technical memorandums prepared under Phase 1, the ISRP will also be referenced in Phase 2 to meet the SGMA requirements and to ensure that the best available information is being utilized. Schedules and deliverables will be coordinated where feasible, but the UVBGSAs need a tool to develop the UVBGSP, and a model with greater resolution to evaluate stream aquifer interaction and evaluate future scenarios. The Phase 2 work will be closely coordinated with these ongoing programs.

Communications Plan - Achieving Consensus

A Communications Plan (CommPlan) will define the UVBGSAs work groups and how they will be lead through a series of carefully crafted meetings and workshops to build understanding, obtain interim decisions, gain consensus, and incrementally build the UVBGSP.

The proposed planning process includes feedback loops. The UVBGSP process is intended to both provide and elicit information. The parallel path for the ethical and project/program analyses will be coordinated through facilitated Board Standing Committees, ad hoc work groups and a TAC to discuss interim deliverables, approaches, alternatives; and to make recommendations to the larger UVBGSAs. The UVBGSAs website will be used to distribute data and deliverables; to manage notifications, board agendas and minutes; and to provide other information to help the public understand the GSP. The PMT is composed of agency staff and professional consultants retained through a competitive process. The PMT will move the UVBGSAs, committees, and work groups through a carefully sequenced series of meetings to review the interim deliverables, to assess management measures, to formulate the alternatives, and to make decisions on the path to building and adopting the UVBGSP. UVBGSAs stakeholders will seek consensus on:

- Definition of the problem, purpose, and need for the UVBGSP
- Sustainability goals and objectives, minimum thresholds, and sustainability indicators
- Review and selection of water and groundwater projects, policies, and programs
- A preferred alternative to mitigate or avoid undesirable results
- Implementation plan and schedule
- Funding and revenue strategy
- Coordinating agreement(s) and long-term governance and oversight mechanisms
- Draft and final content of the UVBGSP

Final Deliverable

The final deliverable will include a comprehensive, actionable UVBGSP and any needed coordinating agreements. The UVBGSP will provide a roadmap for the future that identifies project, policy, and program priorities to be funded and implemented to be sustainable within 20 years, along with milestones and metrics to ensure sustainability goals are met. The UVBGSP will identify roles and responsibilities; project implementation schedules for near-, mid-, and long-term actions; and funding mechanisms, sources, and requirements.

¹ ISRP, 2016. Conceptual Model of Watershed Hydrology, Surface Water and Groundwater Interactions and Stream Ecology for the Russian River Watershed



Scope of Work

Successful development of the UVBGSP to meet the Ukiah region's needs and DWR regulations requires four (4) functional work elements that contain eighteen (18) total tasks, which are each described in detail below.

Work Element: Project Management, Communication, and Facilitation

The objective for this work element is to provide overall project management, finalize the project organizational structure, and to develop the communications plan to guide the internal and external communications.

1. Program Management and Client Coordination

The objectives of this task are to deliver the project within the scope, schedule and budget; to identify and avoid risks; and to define any needed recovery strategies. A competitively chosen Consultant will help coordinate program management to guide development of the UVBGSP. This includes coordination of the PMT; strategic consultation and communications with the UVBGSA Contract Administrator; monthly conference calls with the Contract Administrator and/or PMT; preparation of contracts, subcontracts, task orders invoices, and progress reports; budget and schedule tracking, monitoring, and reporting. The Consultant will communicate program deliverables to DWR and review PMT reports and documents to provide quality control of program deliverables.

Work in this task includes:

- Client coordination
- PMT monthly conference calls
- Grant administration
- Budget and work plan preparation for task orders and subcontracts
- Quality control of program deliverables (PMT work review)
- Preparation of invoices and monthly status reports
- Quarterly reports to DWR and final grant report

Deliverables: Subcontracts; meeting notes; monthly invoices and progress reports; DWR quarterly reports.

2. Communication, Facilitation, and Outreach

The primary objective for this task is to establish the project CommPlan, and then to execute this plan to ensure coordinated internal and external communications and engagement of stakeholders throughout the process (*Reg. § 354.10, 353.6*). The CommPlan will identify internal and external communications requirements; stakeholders; project organization and PMT; use of Board standing and ad hoc committees; anticipated public and stakeholder meetings; communications channels and approaches (collateral materials, website, email list, etc.); final assumptions for the number of meetings; risks to completing the scope, schedule and budget; and recovery plan. It will identify notification requirements; how interested parties, including groundwater users, stakeholders, and the public, will be informed about the project progress; how relevant reports and data will be disseminated to these groups; document decision-making processes; public engagement opportunities, encouraging active participation; and a web communications strategy. This will be a living document that will be maintained throughout the project.



The Consultant will provide logistical support, outreach, and facilitation services to the UVBGSA and committees throughout the process. For budgeting purposes, this assumes six UVBGSA meetings per year; that committee meeting calendars will be scheduled and synchronized with UVBGSA Board meetings; and that the UVBGSA Project Coordinator will prepare minutes. Information delivered to a committee in a given month would be delivered to the Board the next month with committee input. The Consultant will produce public affairs materials as requested by the Contract Administrator. Such information intends to promote the dissemination of information regarding UVBGSP processes and results to UVBGSA member groups. Materials to be produced are not firmly defined now, but could include presentations, brochures, and pamphlets; briefings for the website; and opinion-editorial pieces for the newspaper. Materials will be produced in both English and Spanish to maximize the community's ability to participate.

Work in this task includes:

- Develop draft and final CommPlan
- UVBGSA coordination and facilitation
- Technical Advisory and UVBGSA committee meetings and conference calls
- Public meetings and workshops
- DAC, tribal, and stakeholder group outreach
- Produce public affairs materials
- UVBGSA website maintenance

Meeting assumptions include:

- Standing, TAC, and ad hoc committees could be on-site or via conference call.
- On-site meetings would be coordinated to take place over two consecutive days to support TAC, committee, and work group meetings.
- For budget purposes, it is assumed six UVBGSA meetings per year would be on-site in the project area and that six would be via conference call for a total of **twelve per year**. The budget includes up to **four** public meetings at key milestones over the project life. The budget also includes up to **twelve** total DAC, tribal, and specific stakeholder (e.g.; Farm Bureau; City Council) on-site meetings to be defined in the final CommPlan.

Deliverables: Communications Plan; meeting agendas and notes; public affairs materials.

Work Element: Technical Analysis and Support

The objectives for this work element are to provide a description of the plan area (*Reg. § 354.8*); document groundwater conditions (*Reg. § 354.16*); complete the hydrogeologic conceptual model (HCM) (*Reg. § 354.14*); finalize the water budget, including historical and future conditions (*Reg. § 354.18*); and identify key management areas (*Reg. § 354.20*). This work will also serve to establish common methods, data, and assumptions to be applied during the project and when implementing the UVBGSP.

Phase 2 shall establish a common understanding of the constraints and opportunities inherent in the Ukiah Region water supply from the Russian River, the Potter Valley Project, and the Ukiah Basin; consensus on planning assumptions and methods for quantifying future demands; and an understanding



of the water budget, including potential uncertainties and areas of risk to Ukiah Region water supplies. Consultants will work with the UVBGSA and related work groups to evaluate available surface water data from the Russian River and local groundwater sources so that constraints (undesirable results) are well documented and understood. Quantification of current demands and forecast of future demands for the Ukiah Region will be updated and presented with the water budget. This will define the gaps between the anticipated demand and available supply, help size the potential solutions, and lay a foundation for capital projects that could close the gap with program/policy solutions.

3. Maintain Data Management System (DMS), Develop Long-Term Strategy

The objectives for this task are to fill the data gaps identified in Phase 1, compile the best available information, identify the data management system, support long term monitoring and reporting, formulate projects, and build public awareness and understanding. The work will identify the most cost-effective, long-term needs and objectives for the DMS required to support implementation of the UVBGSP; manage monitoring network and collected data; DWR reporting; and help the UVBGSA and public track progress in meeting the measurable objectives using the sustainability indicators and project metrics to prevent undesirable results (*Reg. § 352.6, 354.8, and 354.40*). This work will also serve to establish common methods, data, and assumptions to be applied during the project and when implementing the UVBGSP.

Phase 1 included a task to compile existing data (Task 3.1), which was focused primarily on the description of the groundwater conditions in the basin. Task 3.1 included a literature and file review of hydrologic and hydrogeologic information; acquiring, analyzing, georeferencing, and creating a database of 2,490 well completion reports provided by DWR, 6,588 groundwater elevation data points from GeoTracker, and 457 groundwater elevation data points from CASGEM and DWR wells; and characterization of hydrogeology geometry and properties. An updated geologic map, maps of estimated hydraulic conductivity, and associated cross sections were developed as part of the drafted hydrogeologic conceptual model. Maps of soil type, land use, and agricultural type were developed as a part of the drafted water budget.

Phase 2 work proposed is to perform biannual updates to the DMS with new groundwater and surface water data; expand the current groundwater and surface water monitoring networks to fill data gaps; support completion of the UVBGSP; develop the surface water / groundwater model (MODFLOW-2005); and put together an integrated DMS/GIS to meet long term UVBGSP needs for data sharing, exchange, access, analysis, and reporting. An integrated system will be developed, or commercial off-the-shelf systems adopted, to meet the needs of the UVBGSA, to store and report information relevant to the completion and implementation of the GSP, and to monitor the basin. The PMT will identify functional requirements and business needs, evaluate alternatives and cost-benefit relationships, and obtain guidance from the TAC and UVBGSA. This includes the approach for managing information generated during the UVBGSP development (e.g. groundwater contours, depth to water, well density, water quality conditions, etc.); supporting access and transparency; and reporting to DWR. Plans for exchange or permission to access data between UVBGSA members and downstream Santa Rosa Plain Groundwater Sustainability Agency (GSA) will be developed.

Additional time series, water demand and hydrogeologic data will be collected from local, state, and federal sources to support the technical and project/program analysis. A plan will be developed for how monitoring data will be included in the required annual report and submitted electronically on form or



formats required by the DWR. Further work for Phase 2 includes developing maps that depict the area, boundary, adjudicated areas, historical land use, jurisdictional boundaries, water use sector, sources, density of wells per square mile, water supply, extractors, and written description of features.

Activities of this task include:

- Develop and maintain project data management system and GIS
- Collect, aggregate, and manage digital maps and time series
- Develop the DMS plan for program management, monitoring data and GSP implementation.

Deliverables: Operational DMS, documentation, and an inventory of digital time series and spatial data captured or developed under the project.

4. Data Gap Analysis on Surface Water/Groundwater Interaction (100% complete)

This work was completed in Phase 1 (Task 3.2) and accepted by DWR. The analysis will be provided to the TAC for review.

5. Monitoring Protocol Manual Development (100% complete)

This work was completed in Phase 1 (Task 3.3). Phase 2 work includes coordination and completion of the TAC review, and updating the protocol based on the input.

6. Historical and Current Conditions, Identify Undesirable Results

The objective is to complete and supplement Phase 1 work and to provide for TAC review. Historical conditions have been added to the existing DMS. The identification of undesirable effects must be addressed through the development of the final water budget, reviewed by the TAC, and by filling surface water-groundwater data gaps through additional monitoring. Stream seepage runs (measuring the differences between streamflow using streamflow gauges along a stream reach) incorporation in the analysis to provide field data to calibrate MODFLOW-2005 water budget results is recommended. This will require expansion of the streamflow monitoring network.

The purpose of this task is also to provide for independent TAC review of the description of current and historical groundwater conditions in the basin based on the best available information as required (Reg. § 354.16). This includes groundwater elevation contours and hydrographs, change in groundwater in storage, groundwater quality, land subsidence, identification of interconnected surface water systems, and groundwater dependent ecosystems within the basin.

Deliverable: Final documentation of historical and current groundwater conditions.

7. Hydrogeologic Conceptual Model (HCM)

The purpose of this task is to complete the description of the regional geologic and structural setting and to gather information to support the final current and future water budget and model. Work completed in Phase 1 includes gathering and presenting existing data, including lateral basin boundaries, major geologic features affecting groundwater flow, bottom of the basin, principal aquifers and aquitards, physical properties of aquifers and aquitards that would support modeling (e.g.; hydraulic conductivity, storativity); preparing cross-sections and documenting major stratigraphic and structural features map; and describing soil characteristics. The ISRP conceptual model, along with the HCM, will meet the requirements of SGMA and application of the MODFLOW-2005 model of the Ukiah Basin.



Additional work for Phase 2 includes:

- Characterize water quality
- Update the bottom of groundwater basin characterization with USGS-derived gravimeter study data (to be released within a few years)
- Delineate existing recharge and discharge areas that substantially contribute to the replenishment of the basin or provide streamflow (gaining/losing reaches and conditions under which they may occur)
- Identify potential recharge and discharge areas, including significant active springs, seeps, wetlands, and groundwater-dependent ecosystems
- Document surface water beneficial uses and water supply sources, and surface water bodies that are significant to the management of the basin
- Locate sources and points of delivery for diversions, including existing agreements, requirements, and operational strategies

Phase 2 will include TAC review of the existing studies and analysis, abstracting information for public understanding, and further addressing undesirable effects that are or may occur. These would be further evaluated in the water budget in Task 8 using MODFLOW. This work will also provide input for the establishment of goals, objectives, sustainability indicators, and thresholds.

8. Historical Water Budget

By the end of Phase 1, it is projected that a transient groundwater flow model (MODFLOW-2005) will be calibrated to groundwater monitoring data from 2014 to 2017 to expand on the spreadsheet-based water budget completed by Maritza Marquez of U.C. Davis. TAC will review the water budget and MODFLOW-2005 flow model prepared for Phase 1, along with the existing U.C. Davis water budget. The groundwater flow model will provide spatial representation of surface water / groundwater fluxes and will enhance the understanding of areas sensitive to surface water depletion from groundwater pumping. The calibration period will be extended for the historical analysis to cover hydrologic and operations variability for critical dry, dry, normal, above normal, and wet years to help the model reflect the historical groundwater levels and Russian River stage values. Phase 2 will document historical and current water demands, extend the baseline and increase the calibration-period of the model, lay the foundation for application of the model to future conditions, and coordinate TAC review. Output from this task will be used for purposes of comparison with the future baseline forecasts. Working with the TAC, the Consultant will ensure compliance with DWR requirements and that the following are quantified:

- Total surface water entering and leaving the groundwater basin by water source type
- Inflow to the groundwater system by water source type, including subsurface groundwater inflow from bedrock, infiltration of precipitation, applied water, and surface water systems and operations
- Outflows from the groundwater system by water use sector, including pumping, subsurface discharge to the Sanel Valley groundwater basin, and groundwater discharge to surface water
- Changes in groundwater storage between seasonal high conditions
- Overdraft conditions, if they occur, and an estimate of sustainable yield

Additionally, the TAC and Consultant will:



- Evaluate availability or reliability of past surface water supply deliveries and aquifer response to water supply and demand trends relative to water year type; and surface water supply deliveries as a function of the historical planned versus actual annual surface water deliveries, by surface water source and water year type, and based on the most recent ten years of surface water supply information
- Assess historical water budget, starting with the most recently available information and extending back a minimum of 10 years
- Describe how historical conditions concerning hydrology, water demand, and surface water supply availability or reliability have impacted the ability of the UVBGSA members to operate the basin within sustainable yield

9. Documentation of Conceptual Hydrologic Model (HCM) and Historical Water Budget

The purpose of this task is to complete the documentation for the historical groundwater conditions, HCM and historical water budget, and provide the calibration report for the MODFLOW-2005 analysis and incorporate recommendations from TAC and UVBGSA review. This includes preparing a draft and final technical report, TAC review of the work, and presentations to the UVBGSA.

Deliverable: Final Phase 1 technical report: HCM, historical water budget, and model calibration.

10. Develop Future Baseline Water Budget

The purpose of this task is to develop the future baseline water budget assumptions and analysis that show the future conditions with no changes to projects, policies, or programs. The outputs will be the MODFLOW-2005 model results, forecasted future water budget conditions, and assessment of the potential undesirable effects that would need to be avoided or mitigated in the UVBGSP. The future baseline will be developed both with and without climate change scenarios and variability in diverted water supply from the Potter Valley Project. There will be four climate change scenarios consistent with DWR regulations, guidance and technical information provided, and with the downstream interests in Sonoma County to ensure that consistent methods, data, and assumptions are used. The same outputs will be produced as are generated for the historic water budget to allow for comparison between current conditions and possible futures. Working with the TAC, the Consultant will ensure compliance with the DWR requirements.

The Consultant will develop future scenarios for land use, groundwater pumping, precipitation, evapotranspiration, streamflow, groundwater recharge, and water demand based on 50 years of past data and climate change scenarios from the *California Basin Characterization Model: A Dataset of Historical and Future Hydrologic Response to Climate Change from the U.S. Geologic Survey* (USGS, 2014). Assumptions will be documented. The workplan includes performing a hydrologic analysis to quantify streamflow based on proposed hydrologic future scenarios, and developing a transient simulation that forecasts surface water and groundwater response to variability in future scenarios, including developing climate change scenarios and assumptions. Updates will be presented to the TAC for discussion and review prior to configuring the final model inputs and running the model. Transient model simulations will be executed to forecast surface water and groundwater response to variability in the future scenarios. The Consultant will compare all outputs using the same sustainability criteria and thresholds as defined during the final calibration, and will document the results of the simulation.

Activities of this task include:



- Create future scenarios
- Perform a hydrologic analysis to quantify future streamflow
- Develop climate change scenarios
- Confirm future scenarios with TAC
- Configure model input files
- Run transient simulations
- Document the results of transient simulation

Deliverables: Future baseline and climate change water budget analysis technical memorandum; TAC presentation; documentation of TAC review and comment.

11. MODFLOW Alternatives Evaluation

The purpose of this task is to apply the MODFLOW-2005 model to the evaluation and comparison of alternatives. The Consultant will use the calibrated groundwater flow model to characterize the benefits of groundwater projects, programs, and policies that will be configured into alternatives in Task 15 (Integrate Management Strategies, Define Alternatives). All alternatives will be compared to the future baseline analysis and water budget and with the climate change scenarios. Tables, maps, and graphs will be produced, showing the effects in terms of the sustainability indicators and thresholds adopted as identified in Task 12 (Develop Sustainability Goals and Measurable Objectives). The model technical results will be one of the factors used in selecting a preferred alternative and developing the UVBGSP.

Deliverables: TAC presentation; alternatives analysis technical memorandum; documentation of TAC review and comment.

Work Element: Project/Program/Policy Analysis

The objectives for this work element and related tasks are to bring the results of the technical analyses into the UVBGSA decision process, and to use the results to help develop the local projects, programs, and policies to create a comprehensive UVBGSP preferred alternative that will be funded and implemented to meet sustainability goals. The CommPlan will define the process used by the UVBGSA to make decisions (Reg. § 354.22). The UVBGSP will then include measures that will be implemented to ensure that the basin will meet sustainability goals and be operated within its sustainable yield, and avoid undesirable effects to the Russian River and related fishery and riparian resources. (Reg. §354.24). The Consultant will work with the UVBGSA, committees, and work groups to define projects and management actions to achieve the sustainability goal for the basin, including projects and management actions to respond to changing conditions in the basin (Reg. § 354.44). Project management actions will identify physical solutions, including structural projects (e.g. recharge facilities), as well as non-structural policies and programs (e.g.; demand reduction, drought response, well standards). There is a wide array of individual projects, programs, and policies the UVBGSA may consider. The individual projects, programs, and policies serve as elements or building blocks that can be used to formulate overall UVBGSP alternatives. For example, a demand reduction alternative may be formulated and compared to a supply development alternative.

This work element includes:

- Develop sustainability goals



- Finalize undesirable results, sustainability indicators minimum thresholds, interim milestones, and measurable objectives
- Inventory and review of plans, projects, programs, and policies
- Review groundwater and related resources management measures
- Configure and compare alternatives
- Select a preferred GSP alternative
- Evaluate financial/funding potential

12. Develop Sustainability Goals and Measurable Objectives

The purpose of this task is to gain consensus on the nature and extent of current problems and undesirable effects, sustainability goals, sustainability indicators, minimum thresholds, interim milestones, and measurable objectives, and to lay the foundation for agreement and practicable solutions. It is critical that UVBGSA members agree on the undesirable results that must be addressed, and recognize the nature and extent of the conflicts and issues facing the Ukiah Region. The sustainability goals and measurable objectives should then seek to mitigate and avoid current or future undesirable results, and to resolve the identified problems, conflicts, and issues. The objectives are critical to the screening of projects, programs, policies, and alternatives.

Preliminary purpose, need, sustainability goals, and measurable objectives for the UVBGSP will be prepared in Phase 1. These will be reviewed by the TAC in workshops. These preliminary goals and objectives will be revisited and revised once the technical analysis and SW/GW model has been completed and the future baseline without project conditions has been evaluated. Each of the elected bodies (GSA Board, County Supervisors, cities, and special districts) will be asked to review the UVBGSP final goals and objectives and to adopt resolutions of support for the UVBGSP. Obtaining these resolutions of support and attending meetings of their representative bodies will be the responsibility of a UVBGSA project manager.

Task activities to be completed include:

- Review issues and conflicts to be addressed by the UVBGSP
- Draft goals and objectives
- Define sustainability indicators and thresholds
- Coordinate with UVBGSP committees and work groups
- Prepare presentations and briefings
- Draft resolutions for UVBGSA

Deliverables: Presentations and briefings on opportunities, issues and conflicts, purpose and need, goals and objectives; draft and final resolution of support for UVBGSP to be adopted by stakeholder groups (County of Mendocino, City of Ukiah, water companies, Farm Bureau, tribes, the Mendocino County Resource Conservation District, agricultural leaders, and members of the community).

13. Inventory and Review Plans, Projects, Programs, and Policies

The purpose of this task is to inventory and review the current land use and water related plans; current and proposed projects; and related local, state, and federal policies and programs that effect groundwater management on the Russian River. Also, this task aims to identify any program gaps between current local land and water management plans, policies, and programs; SGMA requirements; and local sustainability goals. A policy review of the land use plans (general plans) will document water



supply and quality plan elements, and address whether these acknowledge or identify any current or potential undesirable effects. Current policies, plans, and programs to manage surface water and groundwater will be documented to inventory those that will help meet sustainability goals, or which could be revised to support the UVBGSP implementation (e.g. well standards and permitting; state and regional board policy, biological opinions, operating agreements, etc.). During the scoping and review, a preliminary list of potential stakeholder projects will be compiled from current capital improvement plans, existing groundwater plans, and the area's Integrated Regional Water Management Plan (IRWMP). The outputs of this activity will serve as inputs to both the Technical Analysis element (e.g. future water demands) and the other Program/Project Development element of this work plan.

Work of this task includes:

- Review general plans and land use plans
- Review current urban and agricultural water management plans and the prevailing Integrated Regional Water Management Plan (IRWMP)
- Conduct outreach to DACs and the tribal community
- Document current major project operations and proposed capital projects
- Inventory local agency programs and policies
- Document other state and federal programs and policies affecting local groundwater
- Conduct a program and policy review and SGMA analysis of gaps
- Prepare memorandum, briefings and presentations

Deliverable: Inventory and review of existing management measures memorandum; briefings and presentations.

14. Review Groundwater and Resources Management Measures

The purpose of this task is to introduce the UVBGSA to the wide array of management measures and strategies available to the Ukiah Basin. The UVBGSA partners already have programs that reflect the SGMA requirements. The existing programs, along with the groundwater resource management measures defined in SGMA and Water Code statutes and Best Management Practices (BMPs) documentation prepared by the DWR, provide the management measures (building blocks) that will be reviewed, screened, and prioritized. The output from this task will be used as input to the next task to integrate management measures and formulate integrated groundwater management alternatives. The Consultant will review the DWR's voluntary and mandatory groundwater management measures with the UVBGSA, committees, or work groups formed for this purpose. The process will be informed by the prior policy gap analysis. The voluntary and mandatory elements will be reviewed to develop opportunities to improve the programs.

The PMT will work with the UVBGSA to develop and apply a criterion to screen and prioritize individual management measures. The Consultant will provide a series of briefings and facilitate workshops to review resources management measures that could reduce or avoid undesirable results and meet the sustainability goals, consistent with the SGMA requirements and DWR regulations. This includes BMPs identified by DWR for consideration by UVBGSA. A list of strategies will be prepared for review by the UVBGSA committees and/or workgroups, which will provide preliminary rankings of each strategy. The review will support establishing UVBGSP priorities; the planning framework to integrate the mix of



project, policy, and programs; to configure alternatives; and to develop evaluation, screening, and ranking criteria in subsequent tasks.

Workshops will be conducted to review resources management strategies and BMPs with the UVBGSa and to initiate a more detailed review by the committees or work groups. The committees or work groups will make findings and recommendations regarding the value of each strategy and management practice to the UVBGSa for final formulation of alternatives and subsequent evaluation to define a preferred alternative for inclusion in the UVBGSP implementation chapter. These findings and recommendations may take the form of policy statements, which provide overall direction for both plan development and implementation. Ultimately, the information will be used by the Consultant to define a preferred alternative and implementation plan.

Activities of this task include:

- Review mandatory and voluntary groundwater management measures
- Review DWR BMPs
- Prepare presentations and briefings for UVBGSa, committees, and work groups
- Develop screening and ranking criteria for management measures
- Coordinate work groups and committees
- Prioritize and screen management measures
- Develop findings and recommendations
- Prepare presentations and briefings for groundwater management strategies
- Prepare project memorandum

Deliverables: Management strategy memorandum, briefings and presentations to UVBGSa; screening criteria; work group findings and recommendations.

15. Integrate Management Strategies, Define Alternatives, and Select UVBGSP Preferred Alternative

The objective for this task is to combine the management measures into alternatives for the UVBGSa to compare. The MODFLOW-2005 model will be used to evaluate the alternatives and provide the technical analysis results needed to compare the future baseline with the GSP program alternatives; identify undesirable results; and apply the sustainability indicators and thresholds identified for the UVBGSP. Alternatives will be formulated to emphasize the overall management approach. For example, one alternative could configure demand management measures and reduction to compare with an alternative that focused on supply and water development solutions (in-lieu recharge, intentional recharge, injection, reoperations, etc.). In this way, the relative benefits and costs can be compared and a preferred alternative selected. Similar to the screening and prioritization of management measures, a criterion will be established by the UVBGSa that will be applied to configure and select the preferred alternative for inclusion in the UVBGSP implementation plan. The criteria may include technical (feasibility, yield, quality, environmental) and social criteria (economic, political, legal, social, etc.). Preliminary environmental screening criteria would use sustainability indicators and criteria similar to those found in the California Environmental Quality Act (CEQA) check list and prior biological opinions.

Work in this task includes:

- Develop integrated groundwater management program alternatives
- Define evaluation criteria for alternatives



- Conduct environmental evaluation
- Review alternatives and selection criteria with UVBGSA
- Develop preliminary feasibility level program costs
- Apply alternatives evaluation criteria and identify preferred alternative
- Prepare UVBGSA, committee, and work group presentations and briefings
- Coordinate work groups and committees
- Prepare preferred alternative project memorandum

Deliverables: Preferred alternative project memorandum; briefings and presentations; meeting notes.

16. Financial Evaluation

The preliminary costs identified in Task 12 will be factored into an evaluation of funding alternatives that will review and discuss revenue generation strategies that might be implemented by the UVBGSA to cover the costs of implementing projects, programs, plans, and policies. This could include existing authorities used by members of the UVBGSA, which are not available to the UVBGSA pursuant to SGMA. This will also include identification of programs that provide low interest loans and grants to fund program and project development and implementation. This might include benefits assessments, impact fees, permit fees, water charges, and other user rates and fees that may be considered by the UVBGSA for funding the preferred program alternatives. This review will include discussion of the pros and cons of the different funding strategies. A technical memorandum will be prepared and presented to the UVBGSA and appropriate committees to facilitate discussion and development of a preferred funding strategy, including identification of the needed 'next steps' to finalize the approach (e.g. Prop 218 initiative; hearings, etc.) to be included in the UVBGSP implementation plan.

Activities to be completed include:

- Develop and review funding and revenue alternative descriptions
- Prepare briefings and presentations to UVBGSA and committees on funding strategies
- Coordinate work groups and committees
- Develop a preliminary funding strategy based on UVBGSA input
- Prepare financial/funding alternatives and recommendations technical memorandum

Deliverables: Funding alternatives technical memorandum.

Work Element: Prepare Implementation Plan and UVBGSP

17. Develop UVBGSP Implementation Plan

To meet State of California regulations, the UVBGSP must present regional priorities for implementation; identify short-term and long-term milestones; and identify how decision making will be responsive to regional changes, how responses to implementation of projects will be assessed, and how project sequencing may be altered as implementation is carried out. An implementation schedule will be developed showing timelines for planned projects and other policy or programmatic actions or additional studies needed to solidify projects. This will include preferred funding and a financial strategy when consensus is achieved, and a description of the long-term through the 50-year planning horizon, which will show how sustainability will be achieved in 20 years. Results of the strategy will be used to develop the final chapter of the UVBGSP that will detail capital project and program priorities, demand management measures, and preferred policies for adoption by responsible agencies. Roles and



responsibilities, schedules, and funding requirements will also be identified. The final chapter will also include monitoring and reporting requirements, adaptive management strategies, and methods for tracking progress.

Activities to be completed include:

- Define project actions and schedule
- Define program actions and schedule
- Develop draft and final agreements
- Prepare implementation plan technical memorandum

Deliverable: Implementation plan technical memorandum.

18. Prepare Administrative Draft, Public Draft, and Final UVBGSP

The purpose of this task is to compile the previous work into a complete UVBGSP that is ready for review and adoption. This includes using the technical memorandum and UVGSA inputs on the interim work products to produce an administrative draft UVBGSP. This will be reviewed by the UVBGSA members and TAC. Based on the review, a final public review draft UVBGSP will be produced and used to present the work to the public. Written comments will be sought, and oral public comments will be received during UVBGSA meetings held in the project area. The comments will be used to prepare the final UVBGSP that will be considered for adopted by the UVBGSA. The PMT will resolve conflicting comments. Significant policy differences implied by conflicting comments will be resolved by decision of the UVBGSA. The PMT will decide how public comments will be addressed and a final report will be prepared. A draft resolution to adopt the UVBGSP will be prepared by the Consultant for consideration.

Activities to be completed include:

- Prepare administrative draft UVBGSP
- Coordinate UVBGSA review of administrative draft UVBGSP
- Review administrative draft and member comments
- Prepare public review draft UVBGSP
- Conduct a public comment period
- Conduct two UVBGSA meetings to review Public review draft
- Prepare final draft UVBGSP
- Conduct a UVBGSA meeting to adopt the UVBGSP

Deliverables: Administrative draft, public draft, and final UVBGSP; public comments; meeting presentation notes.



ATTACHMENT 5 Budget

The budget includes Table 4 for the proposed project and Table 5 for the total proposal. Please note that there is a request for a waiver of matching funds since the project area is a disadvantaged and/or severely disadvantaged community. Even though exempt from the local match requirements, the UVBGSAs will incur and account for “in-kind” services and labor.

Table 4 – Project Budget

Project Title: Phase 2 for the Ukiah Valley Basin Groundwater Sustainability Plan Development

Tasks ¹		(a)	(b)	(c)	(d)
		Requested Grant Amount	Local Cost Share: Non-State Fund Source ²	Other Cost Share	Total Cost
(a)	1. Program Management and Client Coordination	\$ 88,360.00	\$ 50,700.00		\$ 139,060.00
	2. Facilitation and Outreach	\$ 101,200.00	\$ 101,640.00		\$ 202,840.00
	3. Maintain DMS, Develop Longs Term Strategy	\$ 35,640.00	\$ 12,280.00		\$ 47,920.00
	4. Data Gap Analysis (100% complete)				\$ -
	5. Monitoring Protocol Manual Development (100% complete)				\$ -
	6. Historical and Current Conditions	\$ 48,230.00	\$ -		\$ 48,230.00
	7. Hydrogeologic Conceptual Model (HCM) (100% complete)				\$ -
	8. Historical Water Budget	\$ 32,315.00	\$ 9,500.00		\$ 41,815.00
	9. Document HCM and Historical Water Budget	\$ 30,000.00	\$ -		\$ 30,000.00
	10. Develop Future Baseline Water Budget	\$ 76,470.00	\$ -		\$ 76,470.00
	11. MODFLOW Alternatives Evaluation	\$ 25,200.00	\$ -		\$ 25,200.00
	12. Develop Sustainability Goals & Measurable Objectives	\$ 38,860.00	\$ -		\$ 38,860.00
	13. Inventory and Review Plans, Projects, Programs and Policies	\$ 62,980.00	\$ 13,160.00		\$ 76,140.00
	14. Review Groundwater & Related Resources Management Measures	\$ 52,480.00	\$ 6,020.00		\$ 58,500.00
	15. Integrate Management Strategies, Define Alternatives	\$ 76,120.00	\$ 1,980.00		\$ 78,100.00
	16. Financial Evaluation	\$ 34,460.00	\$ 1,100.00		\$ 35,560.00
	17. Develop UVBGSP Implementation Plan	\$ 13,680.00	\$ 880.00		\$ 14,560.00
	18. Prepare Administrative Draft, Public Draft and Final UVBGSP	\$ 48,260.00	\$ 6,160.00		\$ 54,420.00
(b)					
(c)					
	Grand Total (Sum rows (a) through (d) for each column)	\$ 764,255.00	\$ 203,420.00	\$ -	\$ 967,675.00

¹ These tasks are shown here for example purpose only. Actual number of tasks may vary.² List sources of funding³ Mendocino County has been identified as a DAC/SDAC and is requesting a match waiver though local costs are shown for accurate accounting

Table 5 – Proposal Budget

Proposal Title: Phase 2 for the Ukiah Valley Basin Groundwater Sustainability Plan Development

Individual Project Title		(a)	(b)	(c)	(d)	€
		Requested Grant Amount	Cost Share: Non-State Fund Source ²	Other Cost Share	Total Cost	% Cost Share (Col b/Col d)
(a)	Phase 2 for the Ukiah Valley Basin Groundwater Sustainability Plan Development	\$764,255	\$203,420	\$0	\$967,675	21%
(b)						
(c)						
	Grand Total (Sum rows (a) through (d) for each column)	\$764,255	\$203,420	\$0	\$967,675	21%

² List sources of funding³ Mendocino County has been identified as a DAC/SDAC and is requesting a match waiver though local costs are shown for sake of accurate accounting



ATTACHMENT 6 SCHEDULE

A Gantt chart of the UVBGSP schedule is attached.

Attachment 6- Schedule for Phase 2 of the Ukiah Valley Basin Groundwater Sustainability Plan Development

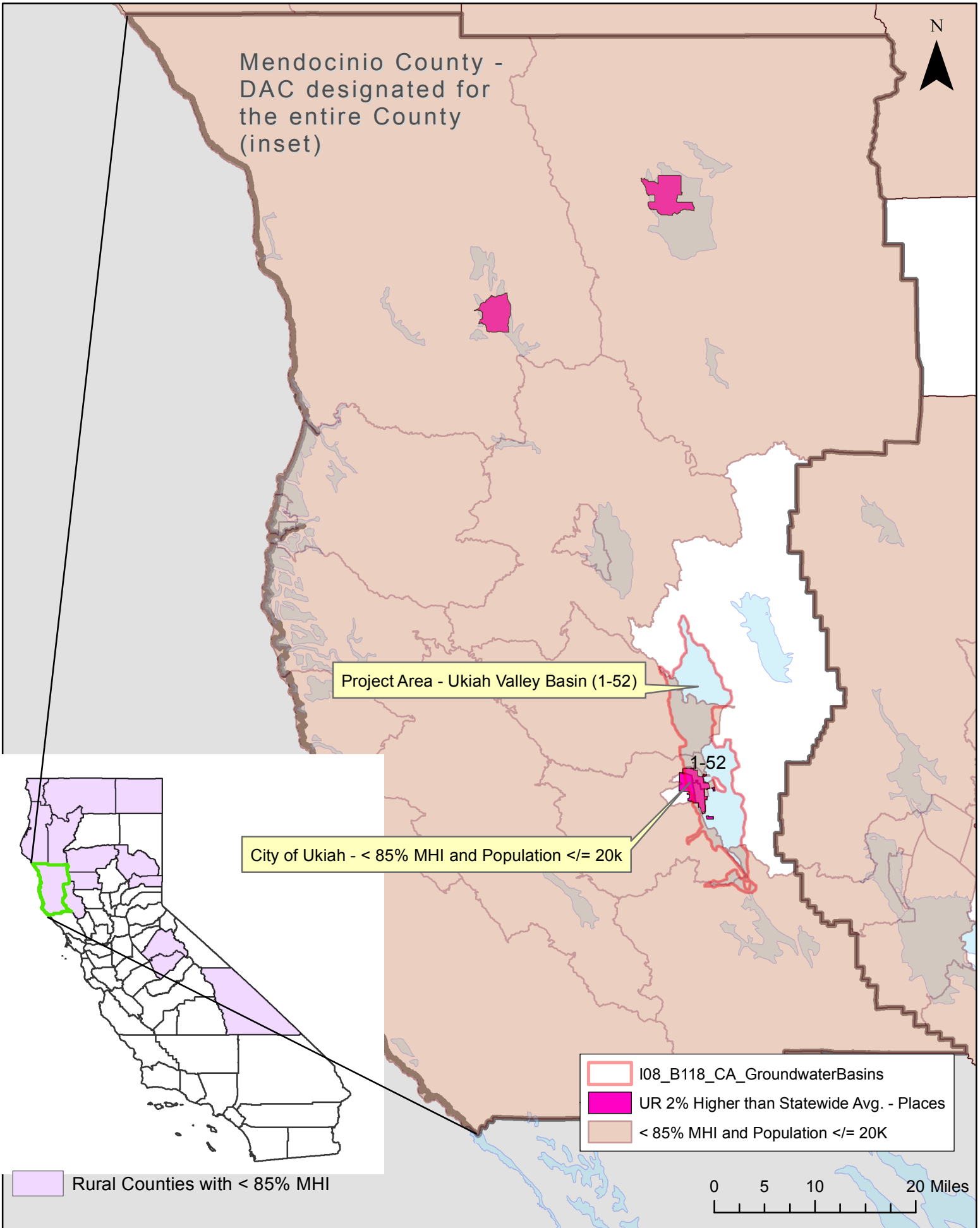
Task	Start	End	2018				2019				2020				2021	
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
1. Program Management and Client Coordination	4/2/2018	3/26/2021														
2. Facilitation and Outreach	4/2/2018	3/26/2021														
3. Maintain DMS, Develop Longs Term Strategy	4/2/2018	12/31/2018														
4. Data Gap Analysis (100% complete)	N/A															
5. Monitoring Protocol Manual Development (100% complete)	N/A															
6. Historical and Current Conditions	4/2/2018	6/29/2018														
7. Hydrogeologic Conceptual Model (HCM)	4/2/2018	6/29/2018														
8. Historical Water Budget	4/2/2018	8/15/2018														
9. Document HCM and Historical Water Budget	10/1/2018	3/31/2019														
10. Develop Future Baseline Water Budget	4/6/2019	9/28/2019														
11. MODFLOW Alternatives Evaluation	2/10/2020	8/15/2020														
12. Develop Sustainability Goals & Measurable Objectives	4/2/2018	8/15/2018														
13. Inventory and Review Plans, Projects, Programs and Policies	4/2/2018	8/15/2018														
14. Review Groundwater & Resources Mngt Measures	10/1/2018	6/28/2019														
15. Integrate Management Strategies, Define Alternatives	7/9/2019	12/31/2019														
16. Financial Evaluation	10/1/2019	2/15/2020														
17. Develop UVBGSP Implementation Plan	8/15/2020	10/9/2020														
18. Prepare Administrative Draft, Public Draft and Final UVBGSP	10/16/2020	3/26/2021														



Attachment 7 Disadvantaged Communities

Note that the UVBGSA is seeking a waiver of matching funds as a DAC, EDA and with SDAC. The members of the GSA are committed to developing the UVBGSP and are contributing and accounting for “in-kind” services for 21% of the budget which equates to \$203,420.

Attachment 3 – Justification presented letters of support and also indicated the list of beneficial users contacts during formation of the GSA, many of which represent DAC or SDAC communities.





Attachment 8 Economically Disadvantaged Area

Note that the UVBGSA is seeking a waiver of matching funds as a DAC, EDA and with SDAC. The members of the GSA are committed to developing the UVBGSP and are contributing and accounting for “in-kind” services for 21% of the budget which equates to \$203,420.

Attachment 3 – Justification presented letters of support and also indicated the list of beneficial users contacts during formation of the GSA, many of which represent DAC or SDAC communities.

Ukiah Valley Basin 1-52 EDA Justification using step 2 option 2 (Rural County), step 3 option 3 (Low Population Density)

- Basins 118, Ukiah Valley 1-52
- Tracts and Blocks <85% MHI and pop <= 20K

NLCD_2011

- Woody Wetlands
- Unclassified
- Shrub/Scrub
- Perennial Snow/Ice
- Open Water
- Mixed Forest
- Herbaceous
- Hay/Pasture
- Evergreen Forest
- Emergent Herbaceous Wetlands
- Developed, Open Space
- Developed, Medium Intensity
- Developed, Low Intensity
- Developed, High Intensity
- Deciduous Forest
- Cultivated Crops
- Barren Land



- County Boundary
- I08_B118_CA_GroundwaterBasins
- Rural Counties with < 85% MHI

Project Area - Ukiah Valley Basin (1-52)

City of Ukiah
< 85% MHI and Population <= 20k

0 1.25 2.5 5 Miles

ECONOMICALLY DISTRESSED AREA CHECKLIST

Instructions: To meet the definition of an economically distressed area, applicants must meet the criterion in Step 1, then proceed to selecting one criterion from Step 2, followed by selecting one criterion from Step 3. Please provide this checklist selecting the appropriate criteria for your project's benefit area.

Applicant Name: _____

Project Name: _____

Program Name (reference Table 1): _____

Step 1

An annual median household income < 85% of statewide median household income: ☐

Step 2

- A municipality with a population of 20,000 people or less: ☐

- A rural county: _____ ☐

- A reasonably isolated and divisible segment of a larger municipality where the segment of the population is 20,000 persons or less: ☐

Step 3*

- Financial hardship: _____ ☐

- Unemployment rate at least 2 percent higher than the statewide average: ☐

- Low population density: _____ ☐

*As determined by the Department.

MAP OF ECONOMICALLY DISTRESSED AREA & PROJECT BENEFIT AREA

Instructions: To meet the definition of an economically distressed area, applicants must display their selected economically distressed area criteria via map(s) and show the project benefit area. Please utilize the Economically Distressed Area Mapping Tool to show the appropriate criteria for your project benefit area.

Insert map here.

REASONABLY ISOLATED JUSTIFICATION

Instructions: To meet the definition of an economically distressed area, applicants must display one criteria from each step of the Economically Distressed Area Checklist (Attachment 1). Please utilize the space below to describe the appropriate 'reasonably isolated' criteria for your project benefit area, if applicable. Please limit justification narrative to 1 page with no smaller font than 10 point.

Insert text here.

FINANCIAL HARDSHIP JUSTIFICATION

Instructions: To meet the definition of an economically distressed area, applicants must display one criteria from each step of the Economically Distressed Area Checklist (Attachment 1). Please utilize the space below to describe the appropriate 'financial hardship' criteria for your project benefit area, if applicable. Please limit justification narrative to 1 page with no smaller font than 10 point

Insert text here.

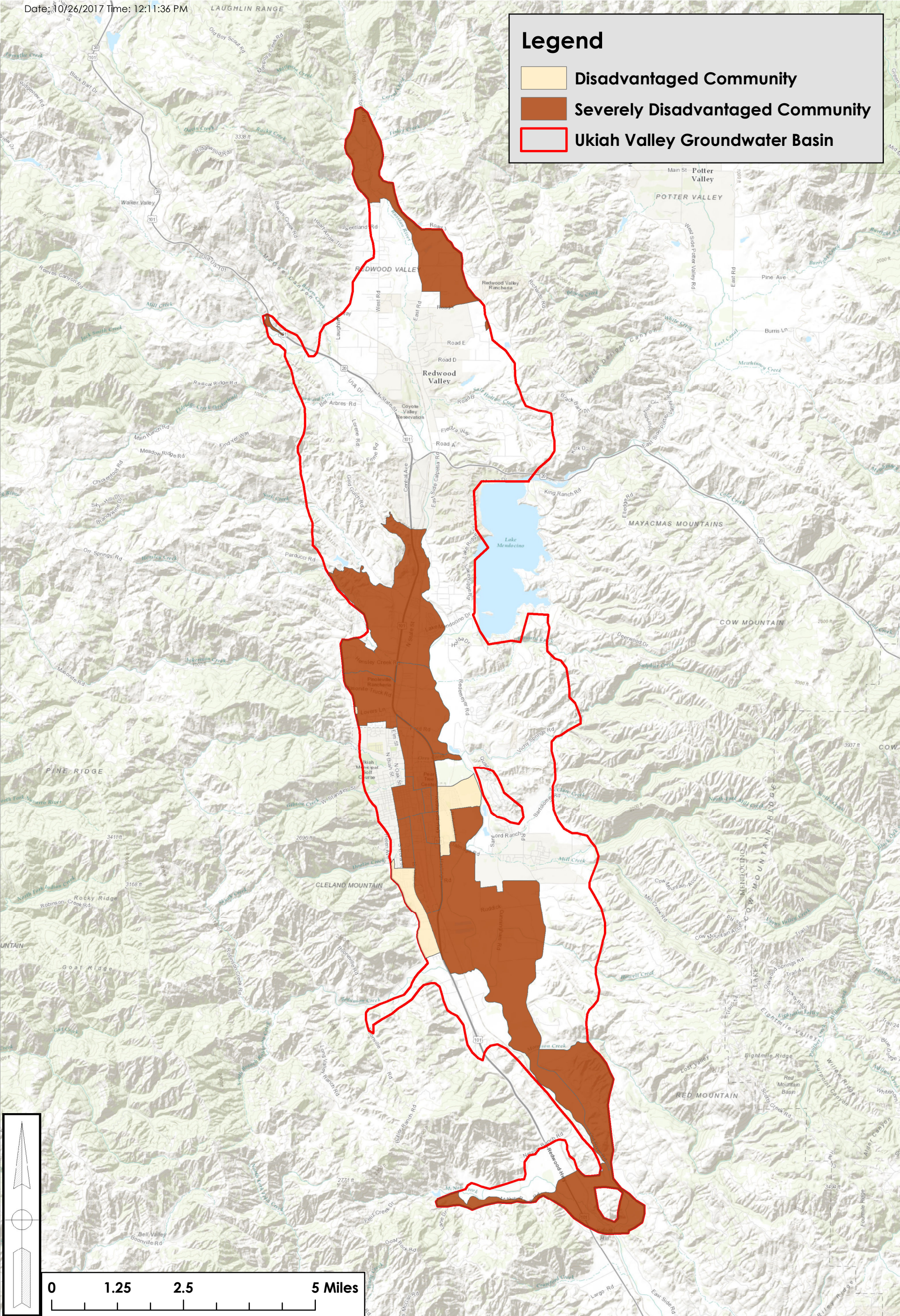


Mendocino County

Sustainable Groundwater Planning Grant Program

ATTACHMENT SDAC MAP

This map shows the DAC and SDAC areas of the project.



DRAWN	BMW
CHECK	CJW
APPROVED	CJW
DATE	10/26/2017
JOB NO.	7746.09
FIGURE	Figure 2

Ukiah Valley Groundwater Basin Category 2 Grant Proposal Disadvantaged Community Map	
Mendocino County Water Agency DWR Grant No. 4600011503	

NO.	HISTORY/REVISION	BY	CHK.	DATE
1				

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