CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY

BOARD OF DIRECTORS

Board of Directors

Derek Yurosek Chairperson, Cuyama Basin Water District
Lynn Compton Vice Chairperson, County of San Luis Obispo
Das Williams Santa Barbara County Water Agency
Cory Bantilan Santa Barbara County Water Agency
Glenn Shephard County of Ventura
David Couch County of Kern
Paul Chounet Cuyama Community Services District
George Cappello Cuyama Basin Water District
Byron Albano Cuyama Basin Water District
Jane Wooster Cuyama Basin Water District
Tom Bracken Cuyama Basin Water District

AGENDA

May 2, 2018

Agenda for a meeting of the Cuyama Basin Groundwater Sustainability Agency Board of Directors and Standing Advisory Committee to be held on Wednesday, May 2, 2018 at 4:00 PM, at the Cuyama Valley Family Resource Center, 4689 CA-166, New Cuyama, CA 93254. To hear the session live call (888) 222-0475 Code 6375195#.

The order in which agenda items are discussed may be changed to accommodate scheduling or other needs of the Board or Committee, the public, or meeting participants. Members of the public are encouraged to arrive at the commencement of the meeting to ensure that they are present for discussion of all items in which they are interested.

In compliance with the Americans with Disabilities Act, if you need disability-related modifications or accommodations, including auxiliary aids or services, to participate in this meeting, please contact Taylor Blakslee at (661) 477-3385 by 4:00 p.m. on the Friday prior to this meeting. Agenda backup information and any public records provided to the Board after the posting of the agenda for this meeting will be available for public review at 4853 Primero Street, New Cuyama, California. The Cuyama Basin Groundwater Sustainability Agency reserves the right to limit each speaker to three (3) minutes per subject or topic.

	1.	Call to Order (Yurosek) (1 min)
	2.	Roll Call (Blakslee) (1 min)
	3.	Pledge of Allegiance (Yurosek) (1 min)
	4.	Board Protocol (Yurosek) (1 min)
	5.	Approval of Minutes (Yurosek) (3 min)
Motion		a. April 4, 2018
Verbal	6.	Report of the General Counsel (Hughes) (2 min)
M/M		a. Funding Agreements Update (Hughes) (3 min)
Verbal	7.	Report of the Standing Advisory Committee (Jaffe) (3 min)
M/M		a. SAC Guidelines and Responsibilities (Jaffe) (2 min)
	8.	Groundwater Sustainability Agency
Verbal		a. Report of the Executive Director (Beck) (3 min)
Motion		b. Board Meeting Conflict on July 4, 2018 (Beck) (2 min)

Motion c. Revise Standing Advisory Committee Meeting Time (Beck) (2 min)

Memo d. Progress & Next Steps (Beck) (3 min)

9. Groundwater Sustainability Plan

Memo a. Groundwater Sustainability Plan Update (Melton) (5 min)

Verbal b. Technical Forum Update (Melton) (3 min)

Memo c. Description of the Plan Area (Van Lienden) (5 min)

Memo d. Data Management Approach (Van Lienden) (5 min)

Memo e. Stakeholder Engagement Update (Gardiner) (10 min)

10. Grapevine Capital Partners Presentation (Ray Shady) (30 min)

11. Financial Report

Memo a. Financial Management Overview (Beck) (3 min)

M/M b. Fiscal Year 2018/19 Budget (Beck) (3 min)

M/M c. Payment of Bills (Blakslee) (3 min)

12. Reports of the Ad Hoc Committees (3 min)

13. Directors' Forum (3 min)

14. Public comment for items not on the Agenda (5 min)

At this time, the public may address the Board on any item not appearing on the agenda that is within the subject matter jurisdiction of the Board. Persons wishing to address the Board should fill out a comment card and submit it to the Board Chair prior to the meeting.

15. Adjourn (5:45 p.m.)

Cuyama Basin Groundwater Sustainability Agency

Acronyms List

BOD	Board of Directors
CA	California
CASGEM	California Sustainable Groundwater Elevation Monitoring
CB	Cuyama Basin
CBGSA	Cuyama Basin Groundwater Sustainability Agency
CBWD	Cuyama Basin Water District
CCSD	Cuyama Community Services District
CDEC	California Data Exchange Center
CVCA	Cuyama Valley Community Association
CVRD	Cuyama Valley Recreation District
DMS	Data Management System
DWR	California Department of Water Resources
EKI	EKI Environment & Water, Inc.
ET	Evapotranspiration
FRC	Cuyama Valley Family Resource Center
FY	Fiscal Year
GAMA	Groundwater Ambient Monitoring and Assessment Program
GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
HG	Hallmark Group (Executive Director)
ITRC	Irrigation Training & Research Center
IWFM	Integrated Water Flow Model
JPA	Joint Exercise Powers Agreement
Kern	County of Kern
NOAA	National Oceanic and Atmospheric Administration
NWIS	National Water Information System
SAC	Standing Advisory Committee
Santa Barbara	County of Santa Barbara
SBCWA	Santa Barbara County Water Agency
SGMA	Sustainable Groundwater Management Act
SLO	San Luis Obispo County
SWCRB	State Water Resources Control Board
TO	Task Order
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
Ventura	County of Ventura
WC	Woodard & Curran (GSP Development Consultant)
WMA	Water Management Area

Cuyama Basin Groundwater Sustainability Agency
Board of Directors Meeting

April 4, 2018

Draft Meetings Minutes

Cuyama Valley Family Resource Center, 4689 CA-166, New Cuyama, CA 93254

PRESENT:
Compton, Lynn – Vice Chair
Albano, Byron
Bantilan, Cory
Bracken, Tom
Cappello, George
Chounet, Paul
Christensen, Alan – *Alternate for David Couch*
Elliott, Darcel – *Alternate for Das Williams*
Klinchuch, Matt – *Alternate for Derek Yurosek*
Shephard, Glenn
Wooster, Jane
Beck, Jim – Executive Director
Hughes, Joe – Legal Counsel

ABSENT:
None

1. **Call to order**
   Acting Chair Lynn Compton called the meeting to order at 4:03 pm.

2. **Roll call**
   Hallmark Group Project Coordinator Taylor Blakslee called roll (shown above) and informed Acting Chair Compton that there was a quorum of the Board.

3. **Pledge of Allegiance**
   The pledge of allegiance was led by Acting Chair Compton.

Cuyama Basin Groundwater Sustainability Agency (CBGSA) Executive Director Jim Beck reminded the audience of the public comment card protocol for providing public comment.

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4. **Approval of Minutes**
   Acting Chair Compton opened the floor for comments on the March 7, 2018 CBGSA Board meeting minutes. No changes were suggested, and a motion was made by Director Wooster and second by

Director Bracken to approve the minutes. The motion passed unanimously and the minutes were adopted. Alternate Darcel Elliott abstained from the vote since she did not attend the March 7, 2018 meeting.

5. Report of the General Counsel

a. Funding Agreements Update

Legal Counsel Joe Hughes provided an update on the draft funding agreement that is required by the County of Santa Barbara and the Cuyama Community Services District (CCSD). He said we will bring back a final funding agreement for execution at the May 2, 2018 Board meeting.

6. Report of the Standing Advisory Committee and referral of matters to the SAC

CBGSA Standing Advisory Committee (SAC) Vice Chair Brenton Kelly provided a verbal report on the March 29, 2018 SAC meeting. His report is included below.

The Standing Advisory Committee met last Thursday afternoon with all members in attendance, including the two newly seated members who are representing the Hispanic community from las Promotoras. Also in attendance were Jim Beck, Taylor Blakeslee, several members of the public, and GSP Consultants.

The SAC meeting began with a discussion about the date and timing of the next Public Workshop in June. General consensus was that although it provided some significant time and travel cost savings, the marathon joint GSA & SAC session plus the double workshop was both extractive and time constrained. The Event was overall well attended and very informative. Future Joint Sessions will need to have more time to discuss the complex subject matter. The Workshops will need to be in the evenings, 6:00pm to accommodate daylight working hours. The most favorable scenario was a Tuesday evening duel language translated public workshop the day before a regular GSA meeting. The attendance by GSA Directors at the workshops was greatly appreciated and will continue to be important.

The SAC then heard a presentation about what makes a good model and the importance of good data. A good model requires good data. Some concern was raised for the need for an official CBGSA coordinated request for specific data from all of the Basin Landowners. Clarification would assist landowners in understanding who needed the data and for what purpose. The SAC recommended that the GSP consultant issue a formal collaborative, joint agency data request to property owners ASAP.

The SAC recommended that Draft 2 of the CBGSA Logo be selected by the GSA Board.
At the March 1st SAC meeting an Ad Hoc committee was formed to develop Guidelines and Responsibilities for the SAC. The committee consists of Chair Jaffe, Vice Chair Kelly and Committee Member Draucker. The Ad Hoc spent some time consolidating several reference guidelines and presented a draft to the SAC at the March 29 meeting. This first draft is included in your packet for review. Some small changes were noted for revision and a final recommendation should come to your Board at the next meeting.

The last item of interest was the announcement of a monthly conference call, chaired by W&C, and held for technical advisors representing Basin landowners. The SAC generally agreed that this is an important part of providing transparency and an equal access to the technical information that need to be made by the various professionals engaged by all the stakeholders in the Cuyama Basin.

Cuyama Valley Family Resource Center Executive Director Lynn Carlisle provided feedback on the March workshops. She also reported, that based on community feedback, a single workshop, with simultaneous Spanish translation is not preferred by the community.

Kern County Alternate Alan Christensen arrived at 4:13 pm.

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a. SAC Guidelines and Responsibilities

Mr. Beck provided a brief overview of the SAC guidelines and responsibilities and let the Board know a final will be presented to them at the May 2, 2018 Board meeting for adoption.

7. Groundwater Sustainability Agency

a. Report of the Executive Director

Mr. Beck let the Board know we need to set the date for the upcoming June workshop. He reported that options include doing a workshop the night before, the day after, or following the regular Board meeting starting at 6 or 6:30 pm. He said we are not recommending a dual language workshop, but we may look at the option of hosting an open house format workshop. We need to select a date to reserve facilities and get public notices out. He also noted that the consultant team could make any option work. Acting Chair Compton noted that Tuesday's are challenging for County staff since County Board meetings occur on Tuesdays. Director Albano said he prefers the long-day option and this works better for him. Directors Shephard, Bracken and Compton also indicated the one-day option works best for them. Alternate Board member Darcel Elliott asked if the one-day option conflicts with the availability of the public attendees, SAC Vice Chair Kelly responded that he does not believe that it would be a conflict for public participation, but the timing of the joint workshop is the bigger factor. The Board opted for the long-day option and the June workshop will occur on the same day as the June 6, 2018 Board meeting.

Mr. Beck reported that technical consultants hired by landowners in the Cuyama Basin will be meeting monthly to engage with Woodard & Curran (W&C) on a professional technical level to provide input and feedback on the development of the Groundwater Sustainability Plan (GSP). He let the Board and public know that the forum is not for lay people and is not a public meeting, but is for technical professionals to have high-level discussions. He said if there are questions of who should attend, talk to him or W&C Practice Leader Lyndel Melton.

Mr. Beck reported that Kern County requested to be a non-voting member on the CBGSA. He said that he and others are reaching out to the County of Kern to look for ways to come to a resolution on this issue without having to renegotiate the Joint Powers Agreement which could be an expensive process.

Director Chounet asked if CCSD could provide a professional to attend the forum and Mr. Beck confirmed they could. Mr. Chounet noted that he didn't think the process for consultants meeting with W&C was transparent and didn't appreciate hearing about it after the fact. He said he didn't know consultants could meet with W&C. Ms. Carlisle commented that she had done research on technical advisory committees and recommended CBGSA establish one to increase credibility in the community. Director Wooster said having professionals talking to the

consultants is a good idea and believes that it is a positive effort. Audience member Ann Myhre said she believes that having access to multiple consultants is a positive thing. Director Bantilan said if regular one-on-one meetings between consultants were happening that would be a problem, but he feels more comfortable with additional consultants participating on a technical call. Director Shephard said Ventura is very comfortable with technical consultants meeting together to develop a more robust GSP. Mr. Beck said that in the end, the GSP will have been reviewed by the SAC and Board and will be an iterative process with multiple public review points. Mr. Melton said it is beneficial to hear from other technical consultants and looks forward to input from the technical coordination calls. SAC member Jake Furstenfeld asked if the information shared on these technical calls will become public information, thus providing more transparency. Mr. Beck said some of the information shared will be verbal since the meeting is a conference call, but we will discuss ways of providing updates on the activities discussed on these calls.

b. Board Meeting Conflict on July 4, 2018

Mr. Beck reported that the July Board meeting schedule for the fourth is a conflict with the national Holiday. He suggested we move the Board meeting to following week on July 11, but keep the SAC meeting on June 28, 2018. The Board provided consensus to this approach and Ms. Compton said to send an email to aides and they will take official action at the May 2, 2018 Board meeting, barring any major conflicts.

c. Progress & Next Steps

Mr. Beck provided an update on the near-term GSP schedule and the accomplishments and next steps which are summarized in the Board packet.

d. Logo Update

Mr. Beck reported on the newest logo drafts and the Board agreed to go with draft No. 2.

8. Groundwater Sustainability Plan

a. Groundwater Sustainability Plan Update

Mr. Melton presented an update on the GSP as well as an overview of what constitutes a good groundwater model.

Director Albano asked Mr. Melton to describe the steps to determine sustainability objectives and how to determine Water Management Areas (WMA). Mr. Melton said as we develop the model, it will be a three- to four-month process to determine sustainability objectives. Regarding WMAs, it will be a multi-step process that we will be asking feedback from the Board on. Director Albano asked when we anticipate starting that discussion, and Mr. Melton replied mid-to-late summer.

Santa Barbara Pistachio Company owner Gene Zannon asked how recent the data being collected is, and wanted to know why we do not go back to the USGS sites for data. Santa Barbara County Water Agency Water Resources Program Manager Matt Young said W&C has all the data they had, and Mr. Melton confirmed that they had made requests for all data. Mr. Zannon asked if someone should be hired to proactively go out and collect that data, and Mr. Melton replied that the more data we receive the better.

Ms. Carlisle asked about data consistency and how it will be vetted for accuracy. Mr. Melton said a request was sent out to the counties, CBWD and CCSD. Mr. Melton said they will look at wells on different sides of a geological fault to determine if that data is valid. Ms. Carlisle asked if the data that is not used will be reported, and Mr. Melton replied that they plan on doing that.

b. Stakeholder Engagement Update

Catalys Group outreach consultant Charles Gardiner reported that the stakeholder engagement roadmap has not changed, and we are moving toward the second workshop in June. He noted one of the topics is to determine how sustainability goals are defined.

Mr. Gardiner said if there are topics not listed on the slide that you want to learn about, let him know and they will work to include that in future education efforts.

Catalyst Group Mary Currie reported on the newsletter that will be distributed May 1, 2018 both in the Cuyama Valley Recreation District newsletter and electronically to the CBGSA contact list.

9. Financial Report

a. Financial Management Overview

Mr. Beck provided an update on the financial costs through February 2018.

b. Fiscal Year 2018/19 Budget Development

Mr. Beck provided an overview of the FY 2018-19 budget development process. He noted that he met with the budget ad hoc group on March 26, 2018 and reviewed the draft FY 2018-19 budget with Director Bantilan, Chounet and Bracken; Matt Klinchuch; and Matt Young.

c. Payment of Bills

Mr. Beck reported on the payment of bills, and a motion was by Director Cappello and seconded by Director Shephard to approve payment of the bills through the month of February 2018 in the amount of $174,946.50, pending receipt of funds. The motion passed unanimously.

10. Reports of the Ad Hoc Committees

Mr. Beck reported that the only ad hoc to meet was the Budget Ad hoc which met on March 26, 2018 to review the draft FY 2018-19 budget.

11. Directors' Forum

Nothing to report.

12. Public comment for items not on the Agenda

No public comment.

13. Adjourn

Acting Chair Compton adjourned the CBGSA Board at 5:36 pm.

I, Jim Beck, Executive Director to the Cuyama Basin Groundwater Sustainability Agency Board of Directors, do hereby certify that the foregoing is a fair statement of the proceedings of the meeting held

on Wednesday, April 4, 2018, by the Cuyama Basin Groundwater Sustainability Agency Board of Directors.

Jim Beck
Dated: May 2, 2018

TO: Board of Directors
Agenda Item No. 6a

FROM: Jim Beck, Executive Director

DATE: May 2, 2018

SUBJECT: Funding Agreements Update

Issue

Consider executing funding agreements with the County of San Luis Obispo and the Cuyama Community Services District.

Recommended Motion

Execute funding agreements with the County of San Luis Obispo and the Cuyama Community Services District.

Discussion

During recent cashflow discussions and notice of an upcoming cash call, the County of San Luis Obispo and the Cuyama Community Services District made it known that they will require funding agreements with the Cuyama Basin Groundwater Sustainability Agency. The proposed draft funding agreement, for consideration of adoption, is provided as Attachment 1.

Placeholder for the funding agreement.

TO: Board of Directors
Agenda Item No. 7a

FROM: Roberta Jaffe, Chair

DATE: May 2, 2018

SUBJECT: Standing Advisory Committee Responsibilities and Guidelines

Issue
Review of the draft Standing Advisory Committee Responsibilities and Guidelines.

Recommended Motion
Adopt the Standing Advisory Committee Responsibilities and Guidelines.

Discussion
The Standing Advisory Committee (SAC) requested clarity on the Committee's responsibilities as members. To address this, SAC Chair Jaffe worked with an ad hoc (Jaffe, Kelly, Draucker) to develop SAC Responsibilities and Guidelines (Guidelines). The Guidelines were presented at the March 29, 2018 SAC meeting and Committee members provided feedback on the draft. The revised Guidelines were presented at April 26, 2018 SAC meeting and final edits were made. The final revised Guidelines are provided as Attachment 1 for consideration of adoption.

Guidelines for Cuyama Basin Groundwater Sustainability Agency Standing Advisory Committee

Establishment:
The SAC was established under Article 8.1 of the Joint Powers Agreement that establishes the Cuyama Basin GSA, which reads as follows:

8.1 Standing Advisory Committee. A Standing Advisory Committee is hereby established as a group of representatives to advise the GSA, and shall be appointed by the Board.

(a) Purpose. The Standing Advisory Committee shall advise the Board concerning, where legally appropriate, implementation of SGMA in the Basin and review the GSP before it is approved by the Board.

(b) Membership. The composition of and appointments to the Standing Advisory Committee shall be determined by the Board.

(c) Brown Act. All Meetings of the Standing Advisory Committee, including special meetings, shall be noticed, held and conducted in accordance with the Ralph M. Brown Act (Government Code 54950 et seq.)

(d) Compensation. No Advisory Committee member shall be compensated by the GSA for preparation for or attendance at meetings of the Board or any committee created by the Board.

Purpose:
The SAC shall advise the GSA Board concerning, where legally appropriate, formation, development and implementation of SGMA in the Basin and review the GSP before it is approved by the GSA Board. (Article 8.1,a). The GSA Board commits to the value of the SAC and will consider SAC recommendations when making policy decisions.

The purpose of the SAC shall include but not be limited to:

- Review of the agenda for the upcoming GSA meeting
- Provide an oral report to the monthly GSA meeting including a summary of discussions and recommendations
- Facilitate community outreach and education related to:
    - Development, adoption or amendment of the Groundwater Sustainability Plan ("GSP")
    - Sustainability goals and objectives
    - Monitoring programs
    - Annual work plans and reports (including mandatory 5-year milestone reports)
    - Modeling scenarios
    - Projects and management actions to achieve sustainability
    - Community outreach
    - Local regulations to implement SGMA
    - Fee proposals
    - General advisory assistance

Membership:

The composition of and appointments to the SAC shall be determined by the GSA Board. (Article 8.1,b) No GSA Director may be a member of the SAC. However, an alternate GSA Director may be a member of the SAC. If an alternate GSA Director knows in advance of the SAC meeting that they will be required to serve as a Director at the subsequent GSA Board Meeting, the alternate GSA Director will recuse themselves from the SAC meeting so as not to have undue influence on matters that they will address as a Board member for the next GSA meeting. If, under the unusual circumstance where an Alternate GSA Director has participated in the SAC as a member of that committee, prior to finding out that they will be required to serve as a Director at the subsequent Board meeting, the Alternate Director will not be required to recuse themselves from voting on matters before the Board. However, when acting under this circumstance, the Alternate GSA Director will make every effort to ensure that they do not prejudice the decisions to be made by the GSA Board of Directors.

Membership of the SAC shall intend to include:

- A majority of full and part-time residents in the Cuyama Basin
- Representation of all geographic regions of the Cuyama Basin
- Representation of all demographics of the Cuyama Basin including domestic well users, townsite water users, disadvantaged community representatives (as referred to in SGMA) and other representatives of the diversity of the beneficial uses and users of groundwater in the basin
- Members of the Standing Advisory Committee are subject to all applicable conflict of interest laws including Government Code section 1090 and the California Political Reform Act.

Terms and Responsibilities:

The GSA Board may announce a call for applications when a vacancy appears on the SAC or if it is recommended that a specific member demographic should be added to the SAC. The SAC may recommend that seats be filled upon vacancy or determined need. The GSA Board is responsible for reviewing applications and approving members.

Term of service:

The SAC was formed in October 2017 with an understanding to serve through the submission of the GSP by January 31, 2020. The expectation is that the SAC will continue through development and implementation through 2040 alongside the GSA. At the time of submission of the GSP, SAC members' initial terms will come to an end. At that time, 3-year terms of the SAC will be established. Current members can choose to end their term and step down; renew for a 3-year term; or renew for a shorter term. Members would need to be reappointed by the GSA Board. There are no limits on reapplying for 3-year terms.

Responsibilities:

Advisory Committee members represent the diverse interests of the Cuyama Basin and groundwater users. In particular, those interests not well represented on the GSA Board.

The criteria for Standing Advisory Committee members are to:

- Serve as a strong, effective advocate for those affected by administrative water decisions
- Work collaboratively with others
- Commit time needed for ongoing discussions
- Collectively reflect diversity of interests

Decision making:
To inform the GSA Board's decision-making, the Advisory Committee will provide oral reports at the monthly GSA meetings and can choose to submit written recommendations as needed. The recommendations will identify areas of agreement and disagreement. The Advisory Committee will be consensus seeking. The Advisory Committee will strive to reach consensus on its recommendations. The definition of consensus spans the range from strong support to neutrality, to abstention, to "I can live with it," to "I will let this go forward." When unable to reach consensus on recommendations, the Advisory Committee will outline the areas of agreement and areas in which it does not agree, providing explanation to inform the Board's decision-making. To comply with the Brown Act, the position of each SAC member on the points of consensus will be noted in the SAC minutes. The Advisory Committee may request that one or more members present its recommendations to the Board, including areas of agreement and disagreement, consistent with Advisory Committee deliberations.

Meetings:
All meetings of the SAC, including special meetings, shall be noticed, held and conducted in accordance with the Ralph M. Brown Act. (Article 8.1,c). Any gathering or discussion among a quorum of the SAC is considered a meeting.
The SAC shall meet monthly in regular meetings. Special meetings and joint meetings with the GSA may be called as needed.
The GSA Board will be requested to notify in writing any member of the SAC who is absent from three or more consecutive SAC meetings and/or missed five meetings in a 12-month period with a request for greater participation or else asked to resign from their seat. Officers of the SAC will work with GSA staff to develop the monthly meeting agenda.

Officers:
There will be an annual election of officers consisting of a Chair and Vice-Chair. Officers can serve more than one year in a row.

The Chair will:

- In consultation with the staff and vice-chair, formulate the agenda and desired outcomes for the meetings
- Work with members to ensure process and participation agreements are followed including:
    - Assure a fair, effective, and credible process
    - Make regular SAC reports to the GSA at the monthly GSA meetings
    - Be substituted by the Vice-Chair for any roles the Chair is not able to fulfill.

If a Committee member has a concern about bias, neutrality or performance of the Chair, s/he should raise the concern first with the Chair and then the Executive Director or Legal Counsel.

Finances:
No Advisory Committee member shall be compensated by the GSA for preparation for or attendance at meetings of the Board or any committee created by the Board. (Article 8(d). The fiscal responsibility of the SAC falls under the oversight of the CBGSA.

TO: Board of Directors
Agenda Item No. 8d

FROM: Jim Beck, Executive Director

DATE: May 2, 2018

SUBJECT: Progress & Next Steps

Issue
Report on the progress and next steps for Cuyama Basin Groundwater Sustainability Agency activities.

Recommended Motion
None – information only.

Discussion
A presentation on the progress and next steps for Cuyama Basin Groundwater Sustainability Agency activities is provided as Attachment 1.

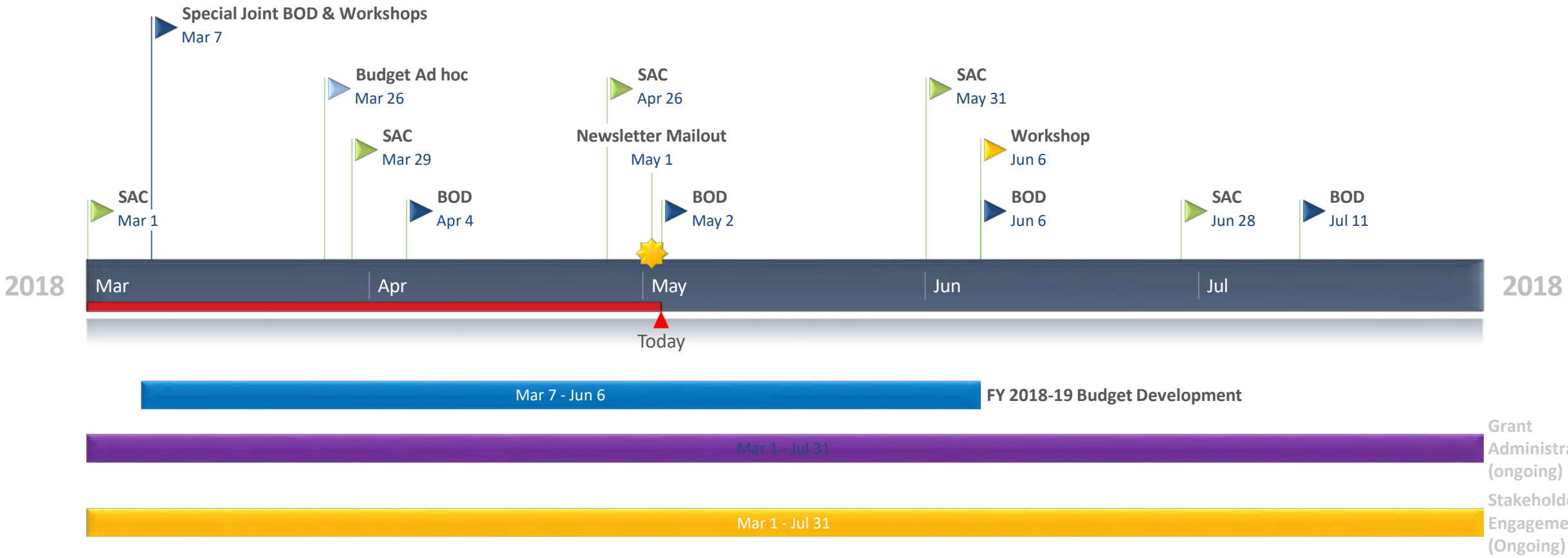
Cuyama Basin Groundwater Sustainability Agency

Progress & Next Steps

May 2, 2018

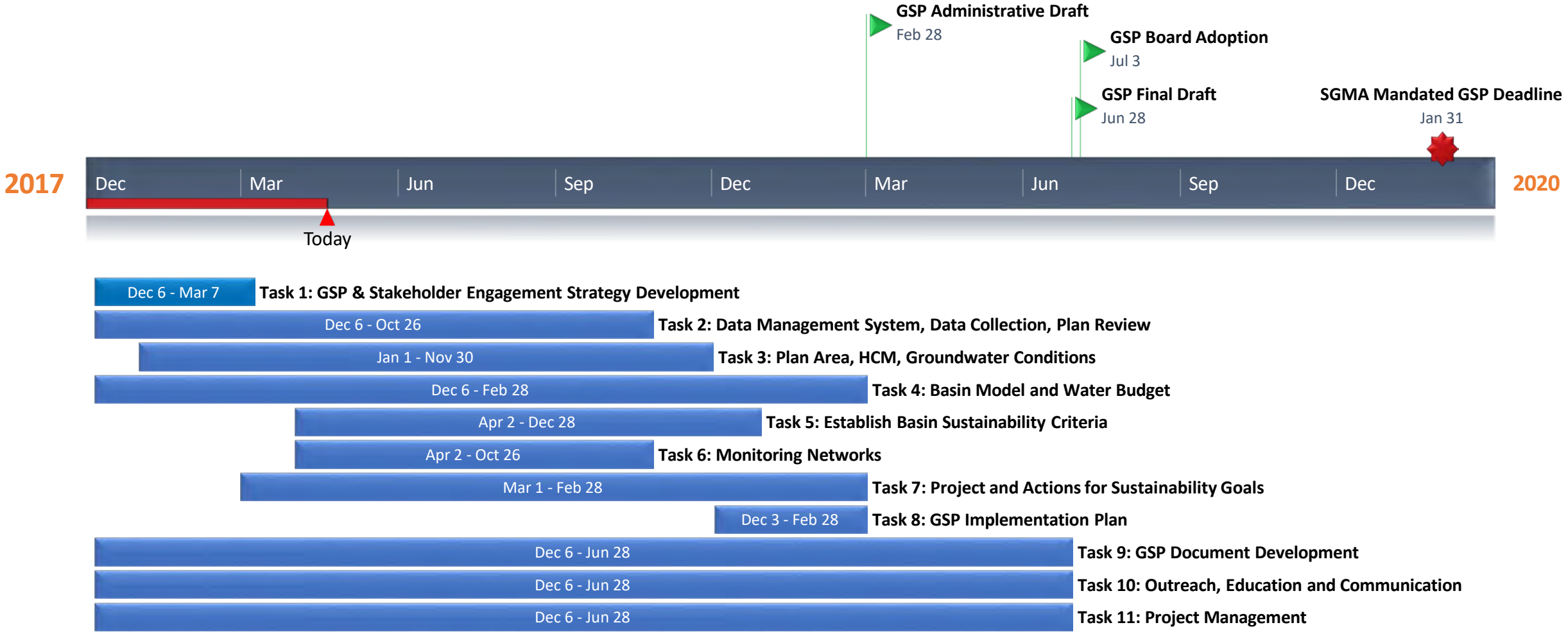
Cuyama Basin Groundwater Sustainability Agency

Near-Term Schedule



Cuyama Basin Groundwater Sustainability Agency

Program Schedule



Accomplishments & Next Steps

Accomplishments

- ✓ Collected Form 700s
- ✓ Contacted Residents to Update Email Addresses
- ✓ Revised Draft FY 2018-19 Budget
- ✓ Set Up Bank Account

Next Steps

- Finalize FY 18/19 Budget
- Collect Funds from Participants
- Prepare for second assessment (in June)

TO: Board of Directors
Agenda Item No. 9a

FROM: Jim Beck, Executive Director

DATE: May 2, 2018

SUBJECT: Groundwater Sustainability Plan Update

Issue
Update on the Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan.

Recommended Motion
None – information only.

Discussion
Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan (GSP) consultant Woodard & Curran's GSP update is provided as Attachment 1.

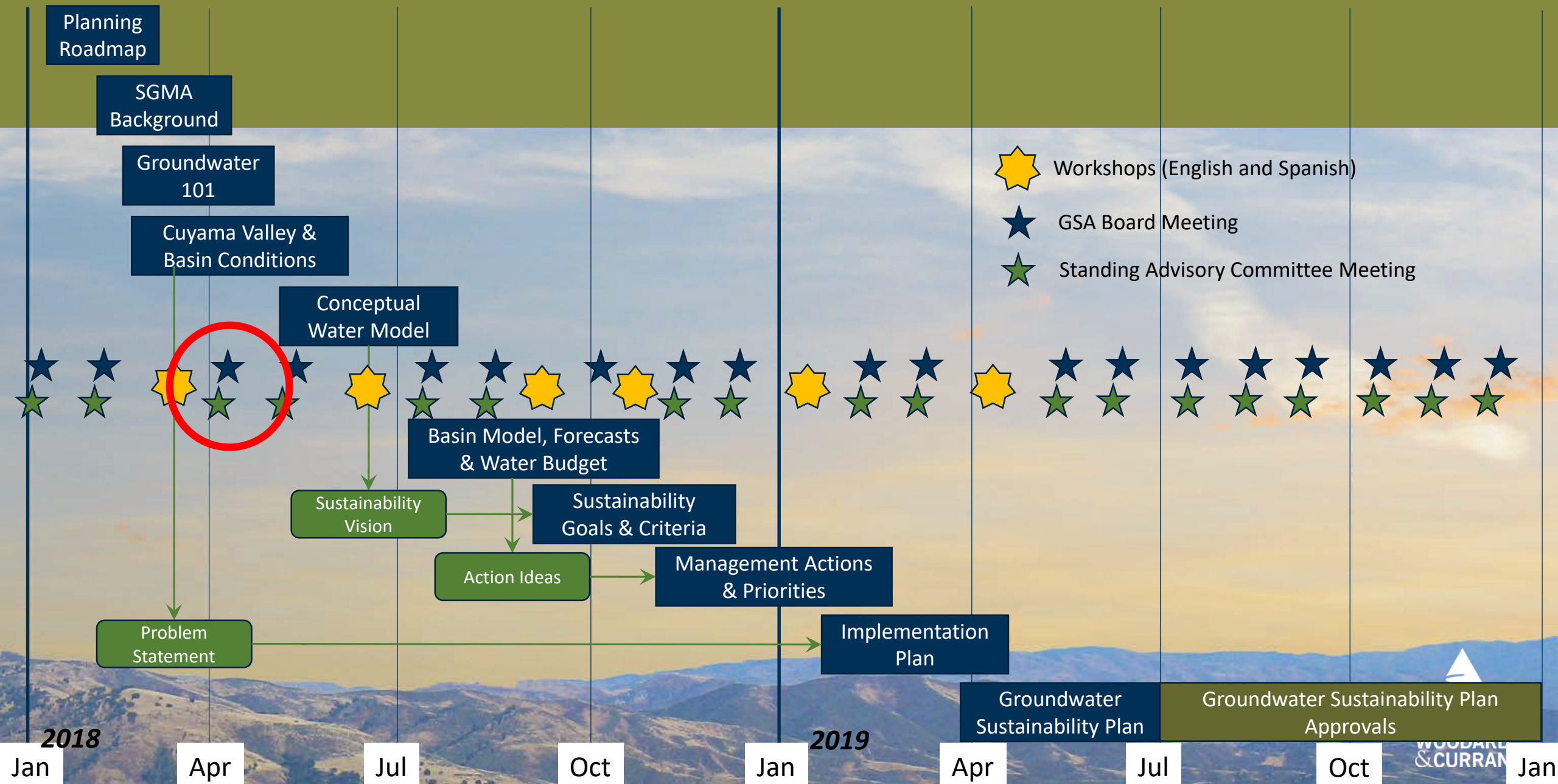
Cuyama Basin Groundwater Sustainability Agency

GSP Update

May 2, 2018

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Plan – Planning Roadmap

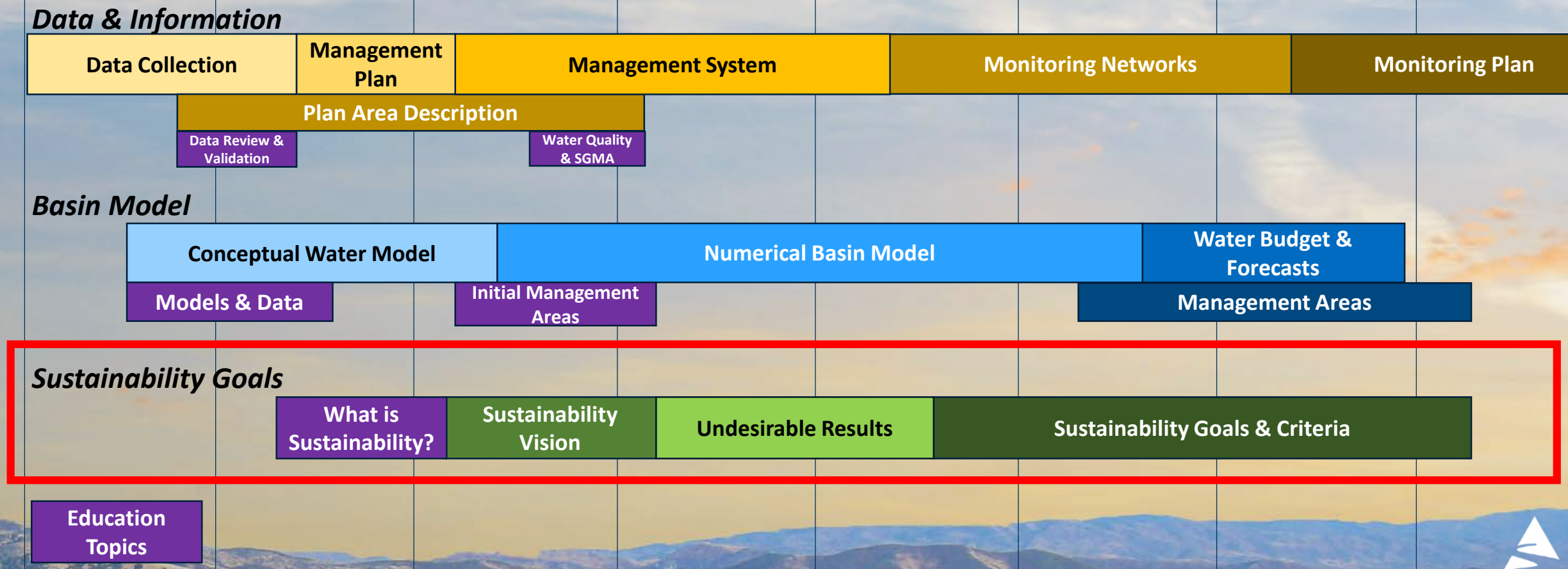


April GSP Accomplishments

- ✓ Prepared draft Description of Plan Area GSP section
- ✓ Continued data collection and processing
- ✓ Reviewed potential data management system options
- ✓ Performed initial work on conceptual basin model
- ✓ Performed initial work on GSP numerical model
- ✓ Developed initial CBGSA newsletter

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Plan – Discussion Topics



Cuyama GSP Sustainability Goals Timeline

- May and June SAC and Board Meetings and Workshop:
  - Solicit initial input on sustainability vision and goals
- July/August:
  - Review undesirable result narratives
  - Discuss ideas for thresholds and objectives
- September/October:
  - Develop quantitative thresholds and objectives for each indicator

WOODARD &CURRAN

Sustainability Indicators in the Cuyama Basin

Sustainability Indicators	Lowering GW Levels	Reduction of Storage	Land Subsidence	Surface Water Depletion	Degraded Water Quality
Metrics Defined by SGMA	Groundwater elevation	Total volume	Rate and extent of subsidence	Volume or rate of depletion	Migration of plumes; constituent concentrations
Approach for measurement	Measured at representative wells	Measure via Proxy monitoring with Elevations	Measure via Proxy monitoring with Elevations	Measure via Proxy monitoring with Elevations	Measured at representative wells OR by proxy if possible

WOODARD &CURRAN

Sustainability Thought Questions

1. What do you envision as the preferred future of the Cuyama Valley and how is that different from the Cuyama Valley you know today?
2. When you think about the importance of groundwater, which of the potential negative effects are of most concern for you?
3. What indicators or factors would best show the groundwater conditions are improving or deteriorating?
4. For these indicators, is there a minimum or maximum level, depending on the indicator, below/beyond which the Basin's groundwater should not be allowed to go?
5. What objectives or targets would you want to see achieved to show that the Cuyama Basin is sustainable?
6. What more would you want to know to help you answer these questions?

WOODARD &CURRAN

Ongoing Data Collection Efforts

CONTINUED FOLLOW-UP	DATA NEEDS
Cuyama Basin Water District	Groundwater levels, historic pumping, well construction
Cuyama Community Services District	Population, pumping data, well construction
Individual Landowners	Additional data and information remains welcome

Availability of Data by Modeling Subregion

Data Type	Cuyama Basin WD	Cuyama CSD	Ventucopa	West Cuyama	Other
Geology	●	●	◖	●	○
GW Levels	●	●	○	◖	○
GW Well Locations	◖	◖	◖	◖	◖
GW Pumping	○	○	○	○	○
Land Use/Cropping	●	●	◖	◖	◖
Precipitation	◖	●	◖	○	○
Subsidence	◖	◖	◖	○	○
Surface Water Flow	○	○	○	○	○
Water Quality	◖	◖	○	○	○

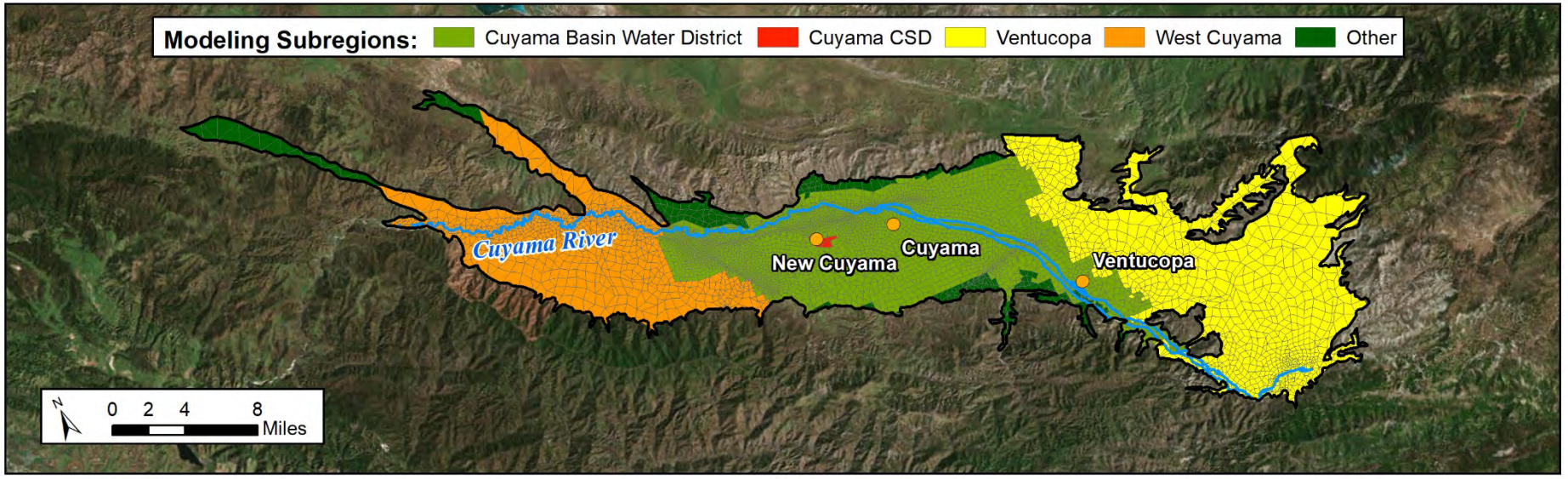
Key

● Robust data available

◖ Moderate data available

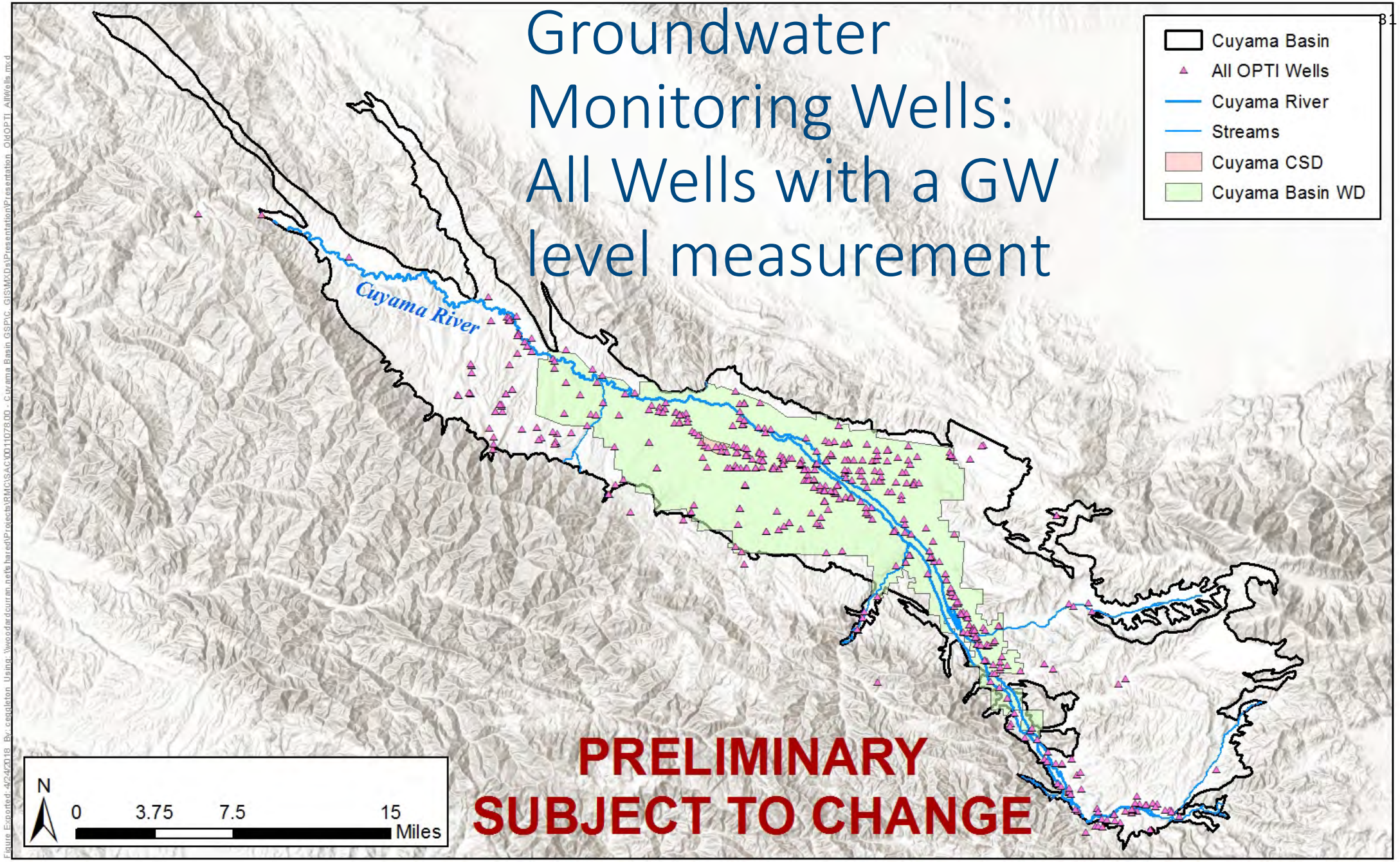
○ Little or no data available

Note: Synthetic data will be developed where little or no data is available for groundwater pumping and surface water flows

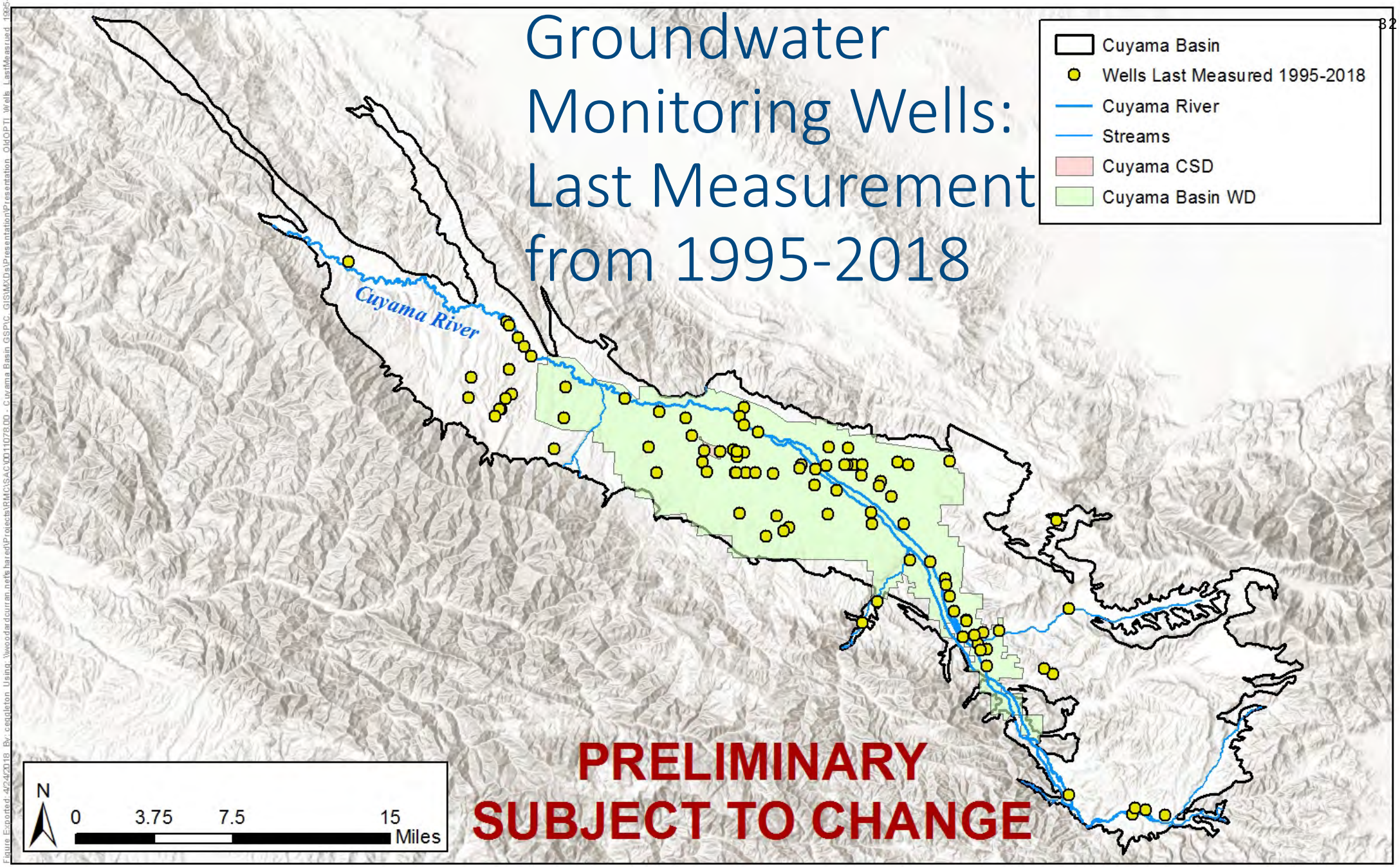


WOODARD &CURRAN

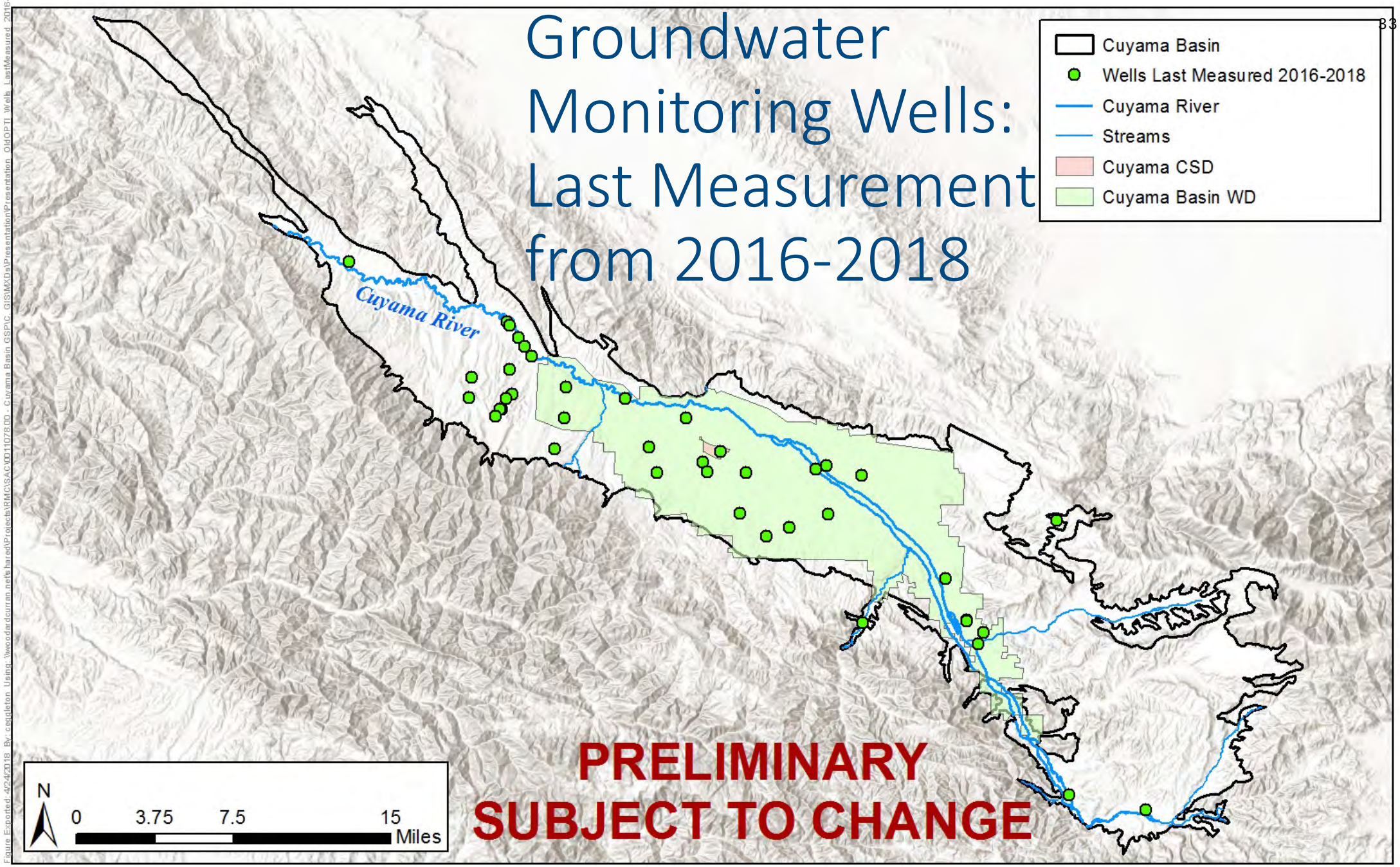
Groundwater Monitoring Wells: All Wells with a GW level measurement



Groundwater Monitoring Wells: Last Measurement from 1995-2018



Groundwater Monitoring Wells: Last Measurement from 2016-2018



TO: Board of Directors
Agenda Item No. 9c

FROM: Jim Beck, Executive Director

DATE: May 2, 2018

SUBJECT: Description of the Plan Area

Issue
Report on the Description of the Plan Area.

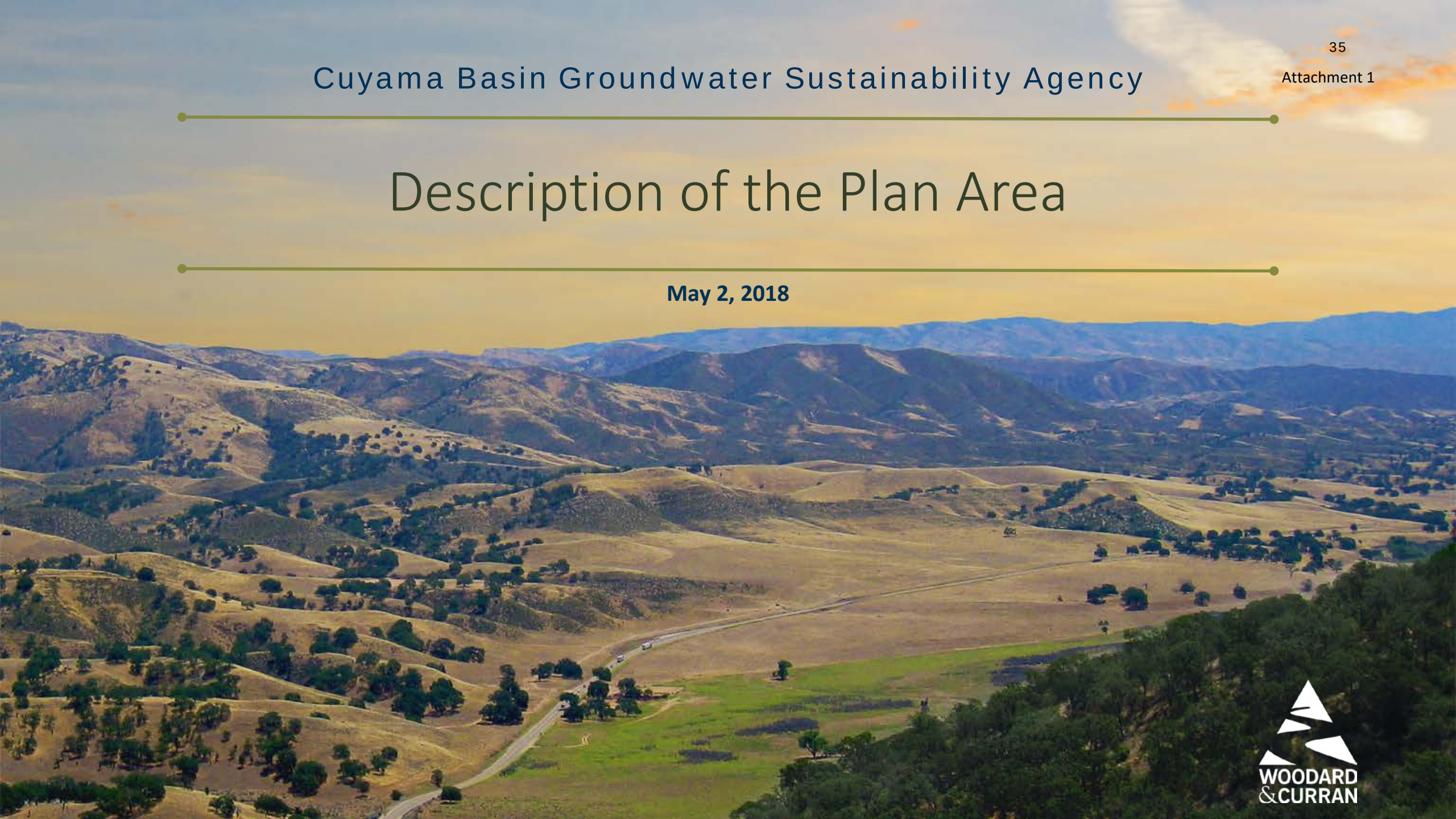
Recommended Motion
None – information only.

Discussion
Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan (GSP) consultant Woodard & Curran's summary of the description of the plan area is provided as Attachment 1. The draft plan is provided as Attachment 2.

Cuyama Basin Groundwater Sustainability Agency

Description of the Plan Area

May 2, 2018



WOODARD &CURRAN

Description of Plan Area

- Draft GSP Section provided to SAC and Board for review as part of Board Packet on April 20
- Description of Plan Area describes:
  - Plan Area definition and setting
  - Existing surface water and groundwater monitoring programs
  - Existing water management programs
  - General Plans in the Plan Area
- Please provide any comments by May 24
  - Available on Cuyamabasin.org, latest news
  - Submit comments to TBlakslee@hgcpm.com

WOODARD &CURRAN

DRAFT GROUNDWATER SUSTAINABILITY PLAN SECTION

April 2018

CUYAMA VALLEY GROUNDWATER BASIN

GROUNDWATER SUSTAINABILITY PLAN

DESCRIPTION OF PLAN AREA - DRAFT

2175 North California Blvd., Suite 315
Walnut Creek, CA 94596
925-647-4100

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

TABLE OF CONTENTS

List of Acronyms

BLM	Bureau of Land Management
CASGEM	California Statewide Groundwater Elevation Monitoring
CBGSA	Cuyama Basin Groundwater Sustainability Agency
CBWD	Cuyama Basin Water District
CCSD	Cuyama Community Services District
CDEC	California Data Exchange Center
CDFW	California Department of Fish and Wildlife
DDW	Division of Drinking Water, State Water Resources Control Board
DWR	California Department of Water Resources

GAMA	Groundwater Ambient Monitoring and Assessment
GICIMA	Groundwater Information Center Interactive Map
GSP	Groundwater Sustainability Plan
ILRP	Irrigated Lands Regulatory Program
IRWM	Integrated Regional Water Management
LID	Low Impact Development
NMFS	National Marine Fisheries Service
NWIS	National Water Information System
PBO	Plate Boundary Observatory
RCD	Resource Conservation District
RWQCB	Regional Water Quality Control Board
SBCFC&WCD	Santa Barbara County Flood Control and Water Conservation District
SBCWA	Santa Barbara County Water Agency
SGMA	Sustainable Groundwater Management Act
SLOCFC&WCD	San Luis Obispo County Flood Control & Water Conservation District
SR	State Route
SWRCB	State Water Resources Control Board
TDS	Total Dissolved Solids
UNAVCO	University NAVSTAR Consortium
USGS	United States Geological Survey
VCWPD	Ventura County Watershed Protection District
WDL	Water Data Library
WMP	Water Management Plan

1. PLAN AREA

1.1 Introduction

The Description of Plan Area document is a detailed description of the Cuyama Valley Groundwater Basin, including major streams and creeks, institutional entities, agricultural and urban land uses locations of groundwater production wells, locations of state lands and geographic boundaries of surface water runoff areas. The Plan Area document also describes existing surface water and groundwater monitoring programs, existing water management programs, and general plans in the Plan Area.

This document will be included as part of a report section in the Cuyama Basin Groundwater Sustainability Plan (GSP) that satisfies § 354.8 of the Sustainable Groundwater Management Act (SGMA) Regulations.

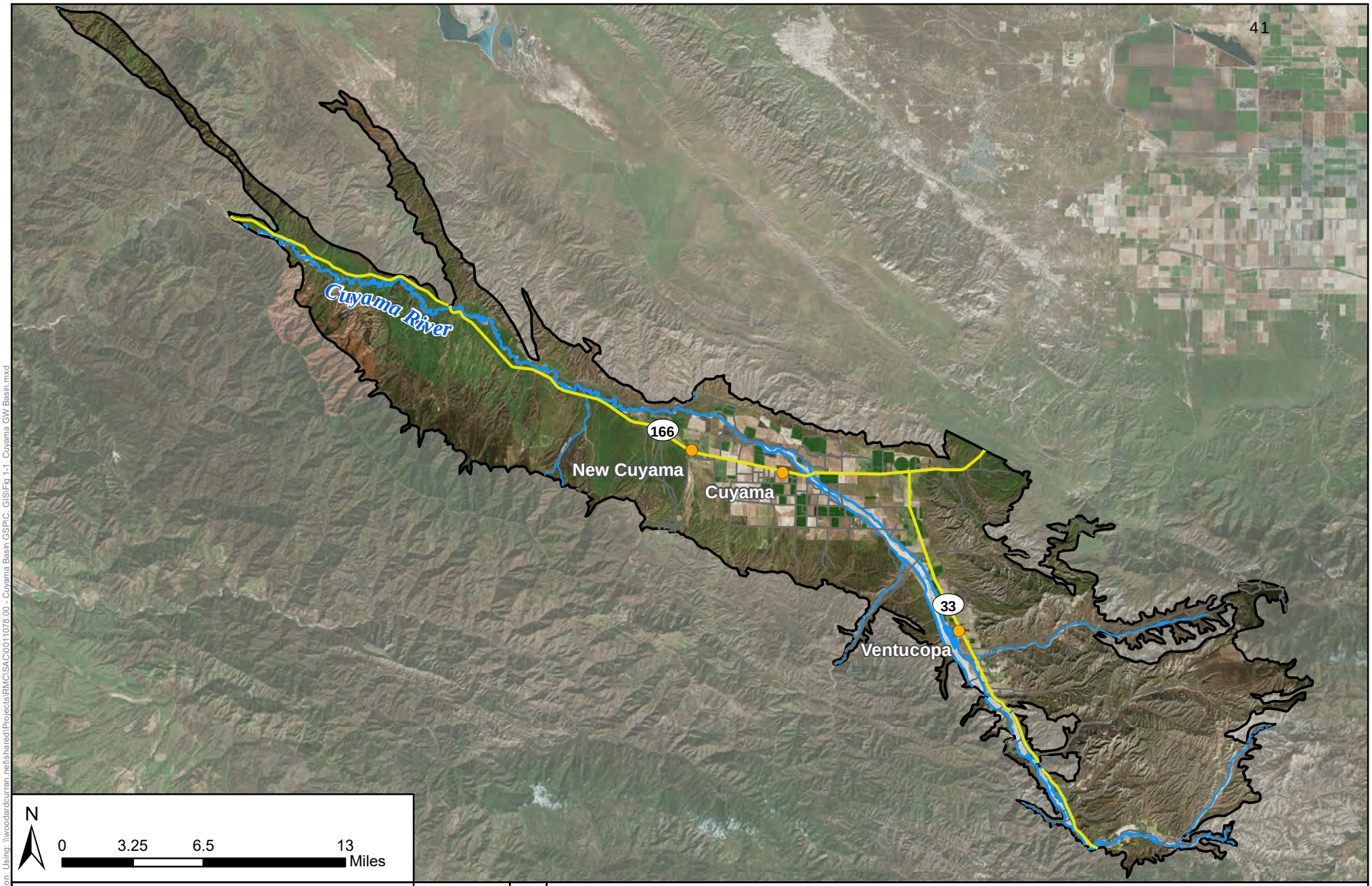
1.2 Plan Area Definition

The Cuyama Valley Groundwater Basin (Cuyama Basin, or Basin) is located in California's Central Coast Hydrologic Region. It is beneath the Cuyama Valley, which is bounded by the Caliente Range to the northwest and the Sierra Madre Mountains to the southeast. The Basin was defined by the California Department of Water Resources (DWR) in its report titled "California's Groundwater Bulletin 118 - Update 2003." The boundaries of the Cuyama Basin were delineated by DWR because they were the boundary between permeable sedimentary materials and impermeable bedrock. DWR defines this boundary as "*Impermeable bedrock with lower water yielding capacity. These include consolidated rocks of continental and marine origin and crystalline/or metamorphic rock.*"

1.3 Plan Area Setting

Figure 1-1 shows the Cuyama Basin and its key geographic features. The Basin encompasses an area of about 378 square miles and includes the communities of New Cuyama and Cuyama, which are located along State Route (SR) 166 and Ventucopa, which is located along SR 33. The Basin encompasses an approximately 55-mile stretch of the Cuyama River, which runs through the Basin for much of its extent before leaving the Basin to the northwest and flowing towards the Pacific Ocean. The Basin also encompasses stretches of Wells Creek in its north-central area, Santa Barbara Creek in the south-central area, the Quatal Canyon drainage and Cuyama Creek in the southern area of the Basin. Most of the agriculture in the Basin occurs in the central portion east of New Cuyama, and along the Cuyama River near SR 33 through Ventucopa.

Figure 1-2 shows the boundary of the Cuyama Basin Groundwater Sustainability Agency (CBGSA). The CBGSA boundary covers the entire Cuyama Basin. The CBGSA was created by a Joint Exercise of Powers Agreement (JEPA) among the following agencies: Counties of Kern, San Luis Obispo, and Ventura; Santa Barbara County Water Agency (SBCWA) representing the County of Santa Barbara; Cuyama Basin Water District (CBWD); and, Cuyama Community Services District (CCSD).



N

0 3.25 6.5 13 Miles

Figure 1-1 - Cuyama Valley Groundwater Basin

Cuyama Basin Groundwater Sustainability Agency

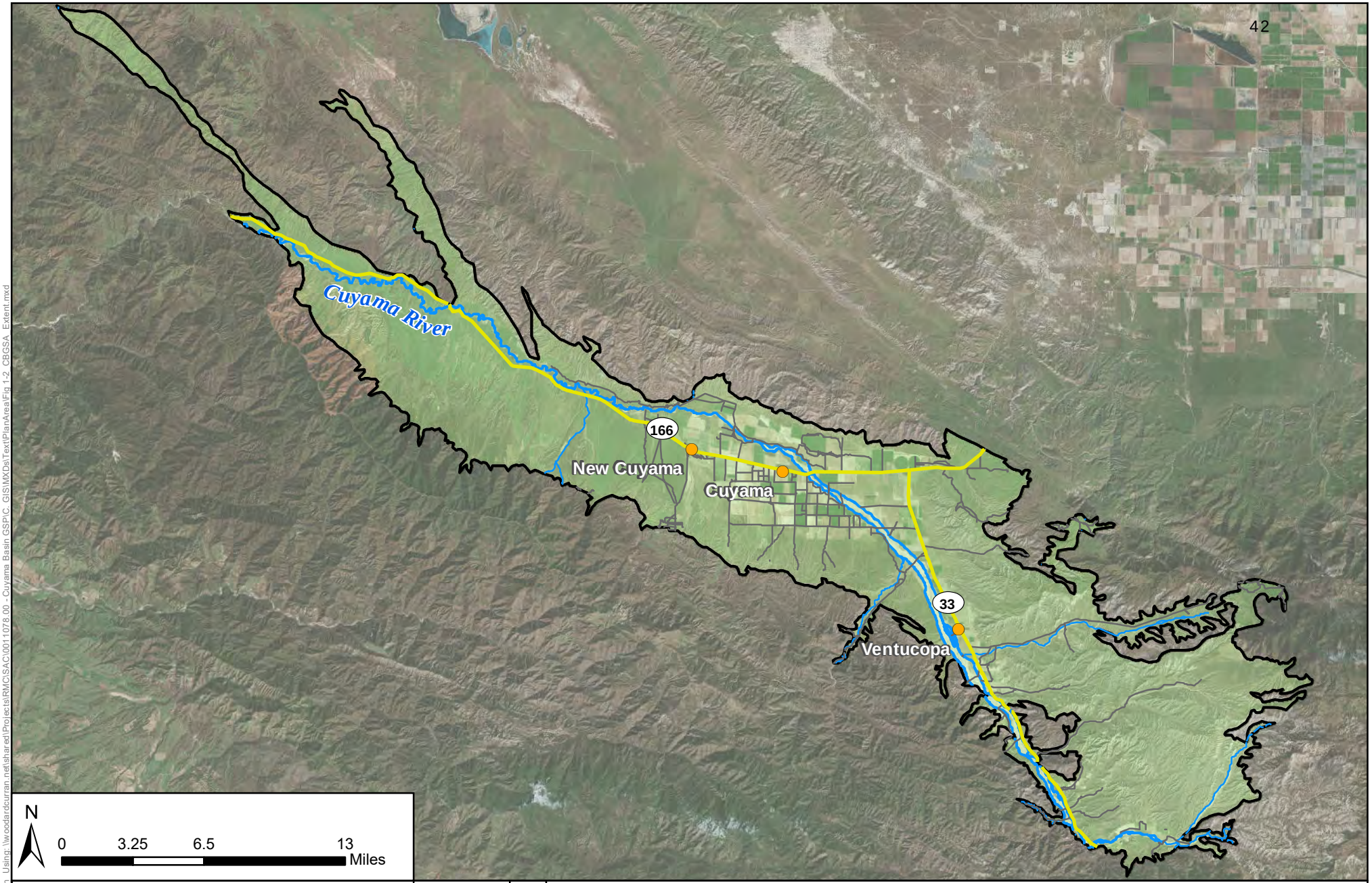
Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

February 2018

WOODARD &CURRAN

Legend

- Towns
- Cuyama Basin
- Highways
- Local Roads
- Cuyama River
- Streams



N

0 3.25 6.5 13 Miles

Figure 1-2 - Cuyama Valley Groundwater Sustainability Agency Boundary

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

February 2018

WOODARD &CURRAN

Legend

- Towns
- Cuyama Basin
- Highways
- Local Roads
- Cuyama River
- Streams

Figure 1-3 shows the Cuyama Basin and neighboring groundwater basins. The Carrizo Plain Basin is located immediately northeast of the Cuyama Basin and they share a boundary at a location about five miles east of the intersection of SR 166 and SR 133. The San Joaquin Valley Basin is located just east of the Carrizo Plain Basin. The Cuyama Basin also shares a boundary with the Mil Potrero Area Basin, which is located just east of one of the Cuyama Basin's southeastern tips, and the Lockwood Valley Basin is located close to the Cuyama Basin's southern area but does not share a boundary with it. To the southwest, and more distant from the Cuyama Basin, are the Santa Maria, San Antonio Creek Valley and Santa Ynez River Valley Basins, which are located about 10 to 15 miles southwest of the Cuyama Basin.

Figure 1-4 depicts the Cuyama Basin's extent relative to the boundaries of the various counties which overlie the Basin. Santa Barbara County encompasses the largest portion of the Basin (168 square miles), covering most of the area south of the Cuyama River, as well as Ventucopa and a small area to the north of that community. San Luis Obispo County has jurisdiction over areas north of the Cuyama River (covering 77 square miles). The Cuyama River marks the boundary between San Luis Obispo County and Santa Barbara County. Kern County covers the smallest extent of Cuyama Basin area compared to the other counties (13 square miles). Its jurisdictional coverage is located just east of the SR 166 and SR 33 intersection, as well as tips of the Basin in the Quatal Canyon area. Ventura County encompasses the southeastern area of the Basin (covering 120 square miles), including the area east of Ventucopa.

Figure 1-5 shows the non-County jurisdictional boundaries in the Basin. The CBWD covers a large area of the Basin (about 130 square miles), from a location about five miles west of Wells Creek to the intersection of SR 166 and SR 33, and south of Ventucopa along SR 33. The CCSD covers a small area of the Basin (about 0.5 square miles) located along SR 166 in the community of New Cuyama.

Figures 1-6 and 1-7 show the agricultural and urban land uses in the Cuyama Basin from 1996-2000 and 2014, respectively. Agricultural land is located primarily in the New Cuyama and Ventucopa areas, and along the SR 166 and SR 33 corridors between those communities. Crops are generally rotated regularly, and some agricultural area is idle, but areas that are in active agricultural use produce primarily miscellaneous truck crops, carrots, potatoes and sweet potatoes, miscellaneous grains and hay, and grapes. Various other crop types are produced in the Basin as well, though at smaller production scales.

Figure 1-8 shows the land use by water source in the Cuyama Basin. Almost all of the water use in the Basin is served by groundwater. There are 37 surface water rights permits in the Basin that allow up to 116 acre-feet per year. Much of the surface water use is for stockwatering of pasture land, which may not be included in the land use dataset shown in the figure.

Figure 1-9 shows the number of domestic wells per square mile and the average depth of domestic wells in each square mile in the Cuyama Basin. Figure 1-9 shows a grid pattern where each block on the grid is a section that covers one square mile of land. The number in each square represents the average depth of the well(s) in the section. Most of the sections in the Cuyama Basin that have domestic wells contain only one well, while twelve sections contain two wells each, three sections contain three wells each, four sections contain four wells each, and one section contains six wells. Wells range in depth broadly across the Basin, from as shallow as 120 feet below ground surface in the southeast portion of the Basin to 1,000 feet below ground surface in the central portion of the Basin.

Figure 1-10 shows the density and average depth of production wells in the Cuyama Basin per square mile. There is a wide distribution of production well density in the Basin; between 1 and 11 wells per

square mile. Depths of production wells range from 50 feet below ground surface on the outer edges of the Basin, to over 1,200 feet in the central portion of the Basin.

Figure 1-11 shows the density and average depth of public wells in the Cuyama Basin. The Basin contains three public wells, one just south of New Cuyama, one east of Ventucopa and one at the southern tip of the Basin. These wells have depths of 855, 280 and 800 feet, respectively.

Figure 1-12 shows the public lands in and around the Basin. Some portions of the land that overlies the Cuyama Basin, and most of the areas immediately surrounding the Basin, have a federal or State jurisdictional designation. The Los Padres National Forest covers most of the Basin's northwestern arm, then runs outside the Basin's western boundary, where it enters the Basin again and covers most of the Basin east of Ventucopa. A portion of the Basin north of Ventucopa, as well as an area nearby that is immediately outside the Basin, is designated as the Bitter Creek National Wildlife Refuge. The Bureau of Land Management (BLM) has jurisdiction over a large area that runs outside the Basin, along the Basin's northern boundary, and covers small parts of the Basin north of the Cuyama River. Most of the northeastern arm of the Basin is designated as State Lands.

Figure 1-13 shows that the Cuyama Basin is located within the Cuyama Watershed, which lies within the larger Santa Maria watershed, with the Cuyama Basin occupying roughly the entirety of the Santa Maria Basin's eastern contributing watershed, and a small part of the Cuyama Basin's northeastern arm located in the Estrella River Basin. Figure 1-13 illustrates the Cuyama Watershed's location in the Santa Maria Basin, as well as the larger Basin's major receiving water bodies, which include the Santa Maria River, the Cuyama River, Wells Creek, Santa Barbara Creek, the Quatal Canyon drainage, and Cuyama Creek. The figure also identifies the various other groundwater basins in the general geographical vicinity of the Santa Maria Basin, including the San Antonio, Santa Ynez and Santa Clara-Calleguas Basins to the south. Basins to the north of the Santa Maria Basin include Estero Bay, Salinas, Estrella River, Carrizo Plain, Temblor, Fellows, South Valley Floor and Grapevine.

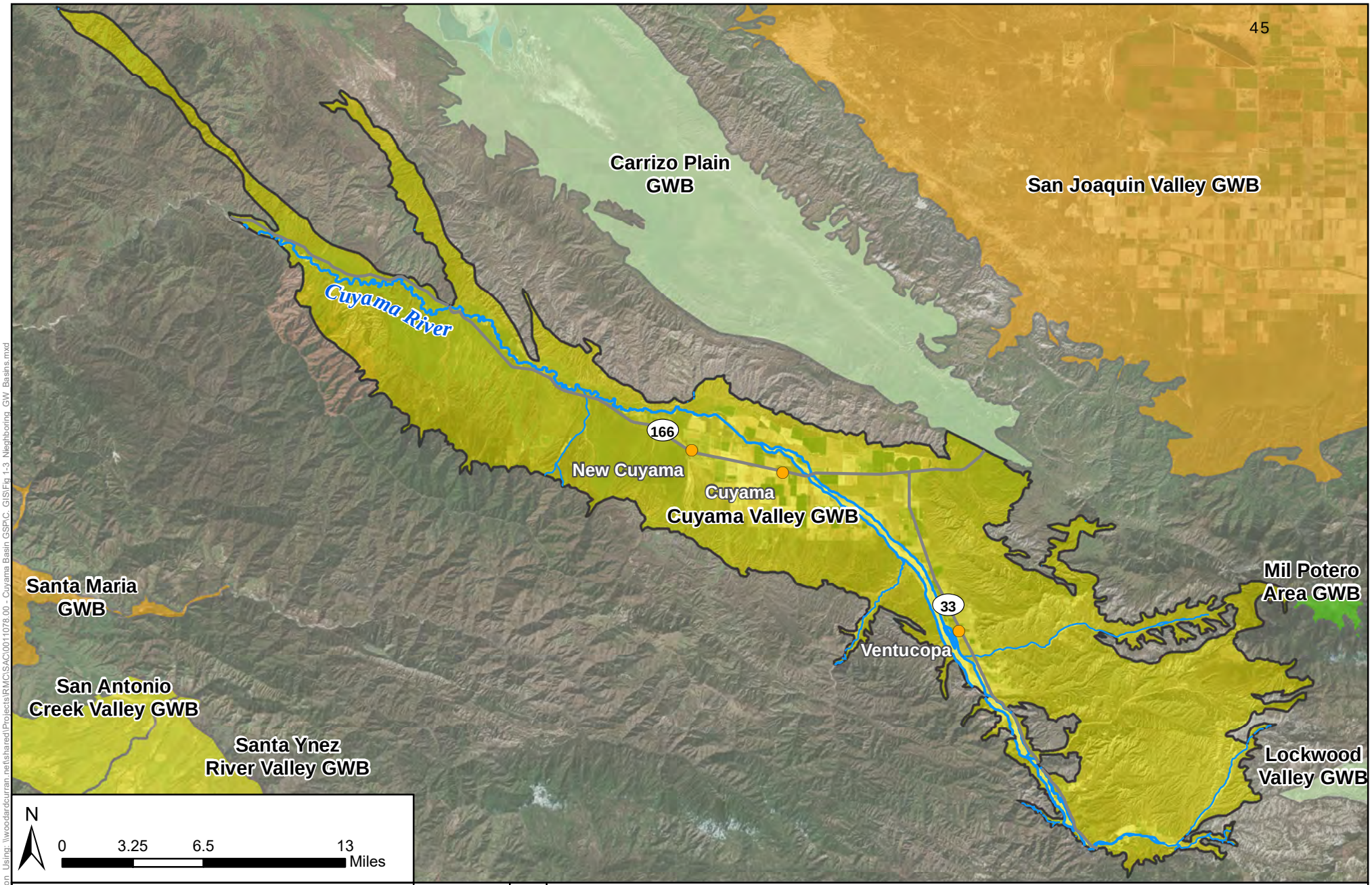


Figure 1-3 - Neighboring Groundwater Basins

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

February 2018

WOODARD &CURRAN

Legend

- Towns
- Cuyama Basin
- Highways
- Cuyama River
- Streams

Basin Priority

- High Priority
- Medium Priority
- Low Priority
- Very Low Priority

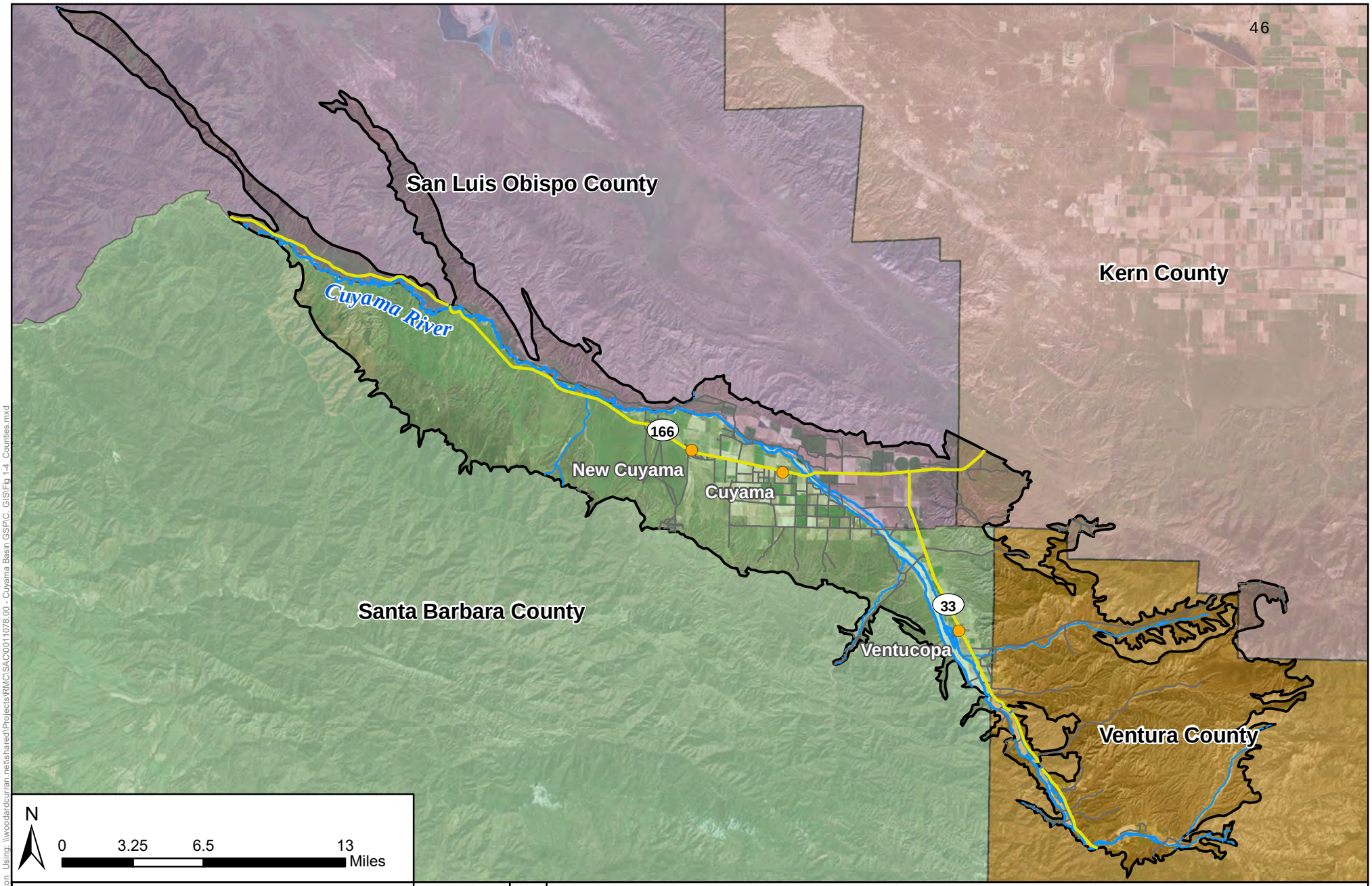


Figure 1-4 - Counties Overlying Cuyama Basin

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

February 2018

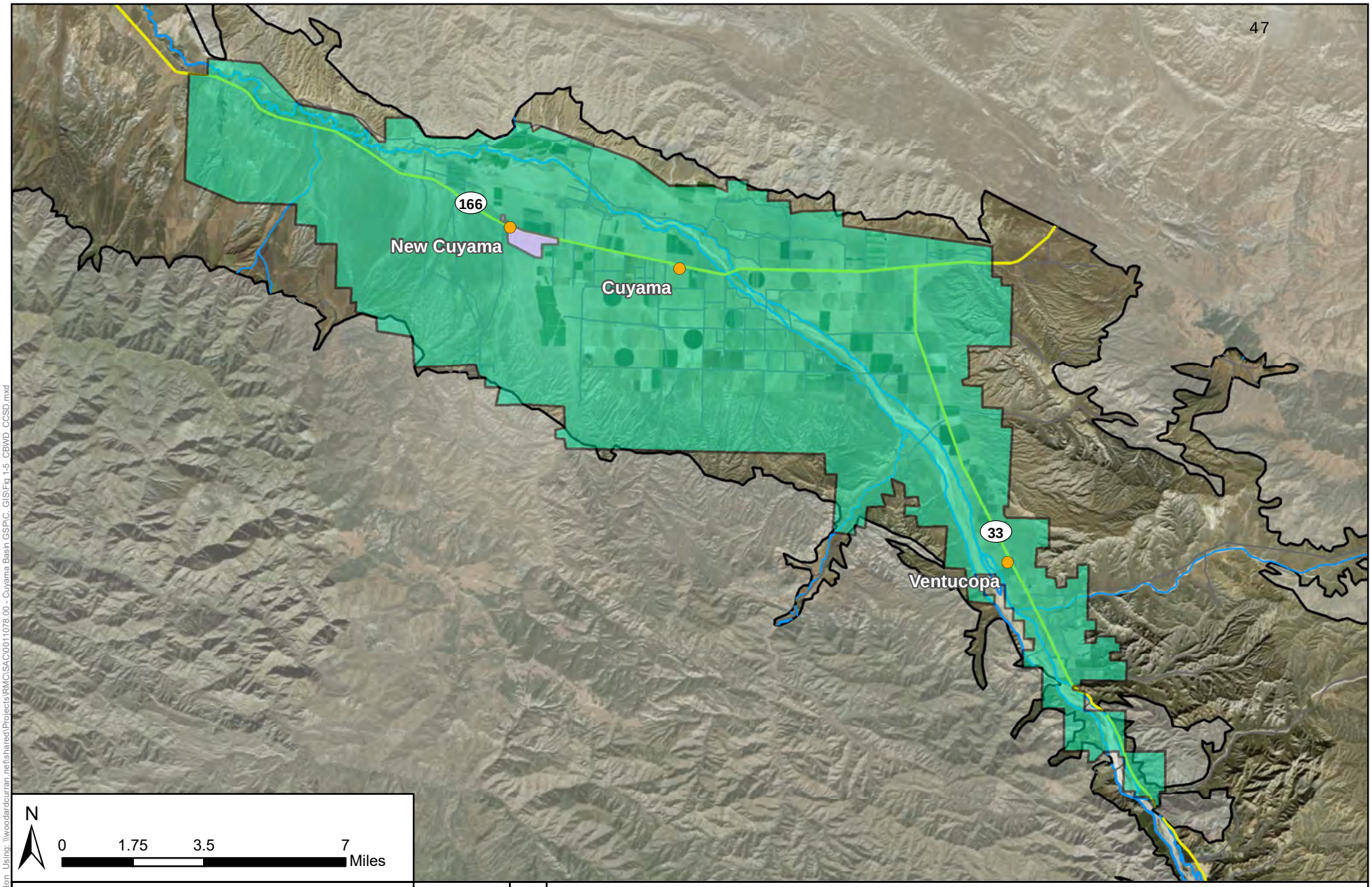
WOODARD &CURRAN

Legend

- Towns
- Cuyama Basin
- Highways
- Local Roads
- Cuyama River
- Streams

County

- Kern County
- San Luis Obispo County
- Santa Barbara County
- Ventura County



N

0 1.75 3.5 7 Miles

Figure 1-5 - Non-County Jurisdictional Boundaries

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

February 2018

WOODARD &CURRAN

Legend

- Cuyama Basin
- Towns
- Cuyama Community Service District
- Cuyama Basin Water District
- Highways
- Local Roads
- Cuyama River
- Streams

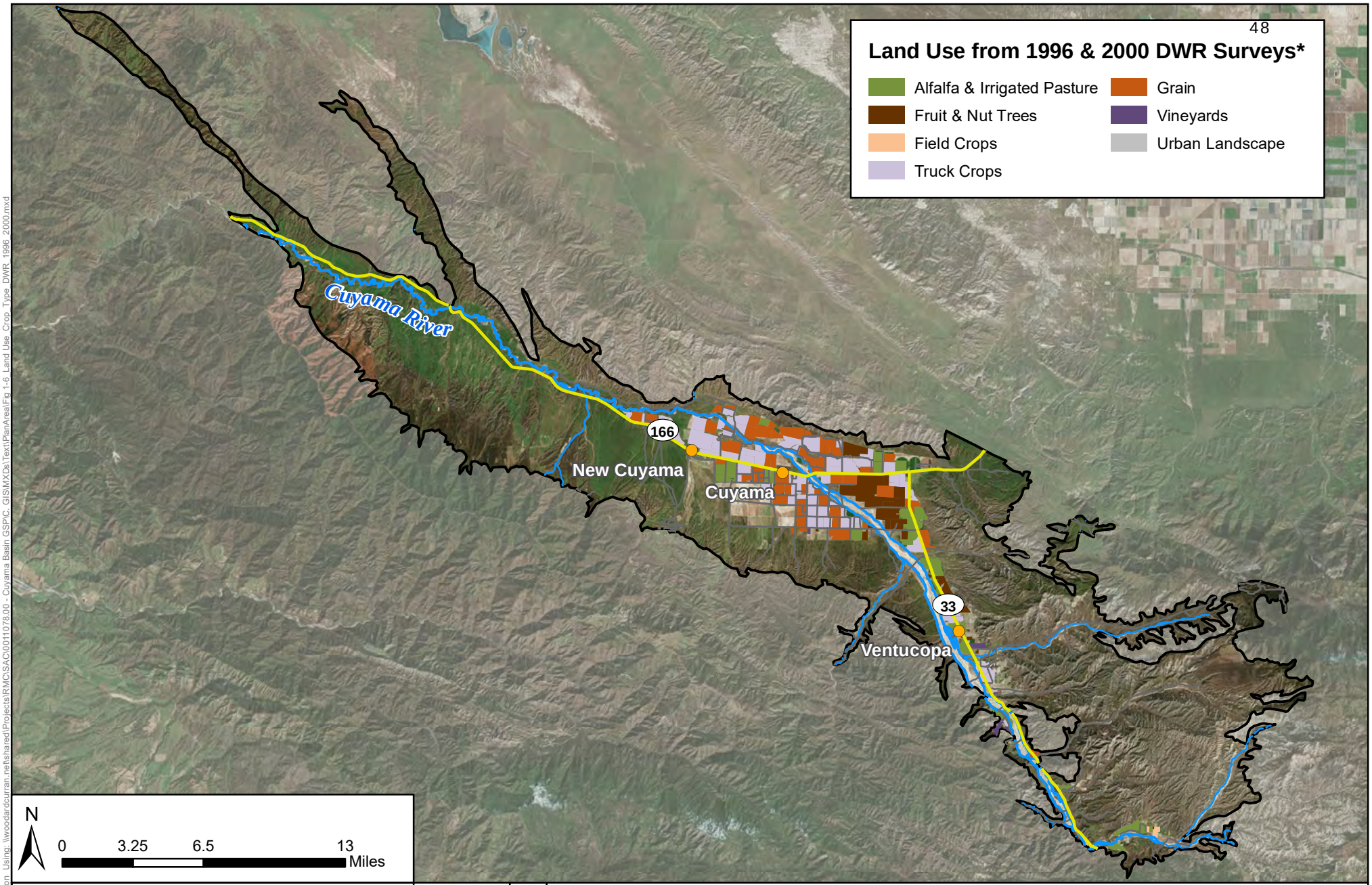


Figure 1-6 - 1996 & 2000 Land Use

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

March 2018

WOODARD &CURRAN

Legend

- Towns
- Highways
- Local Roads
- Cuyama River
- Streams
- Cuyama Basin

*Land use data is provided by county. The data in this map includes data from 2000 for Ventura County, and 1996 data for San Luis Obispo and Santa Barbara Counties. Kern County data does not extend into the Cuyama Basin, and is not included.

Source: California Department of Water Resources County Land Use Surveys, 1996 and 2000 datasets. https://www.water.ca.gov/Programs/Water-Use-And-Efficiency/Land-And-Water-Use/Land-Use-Surveys

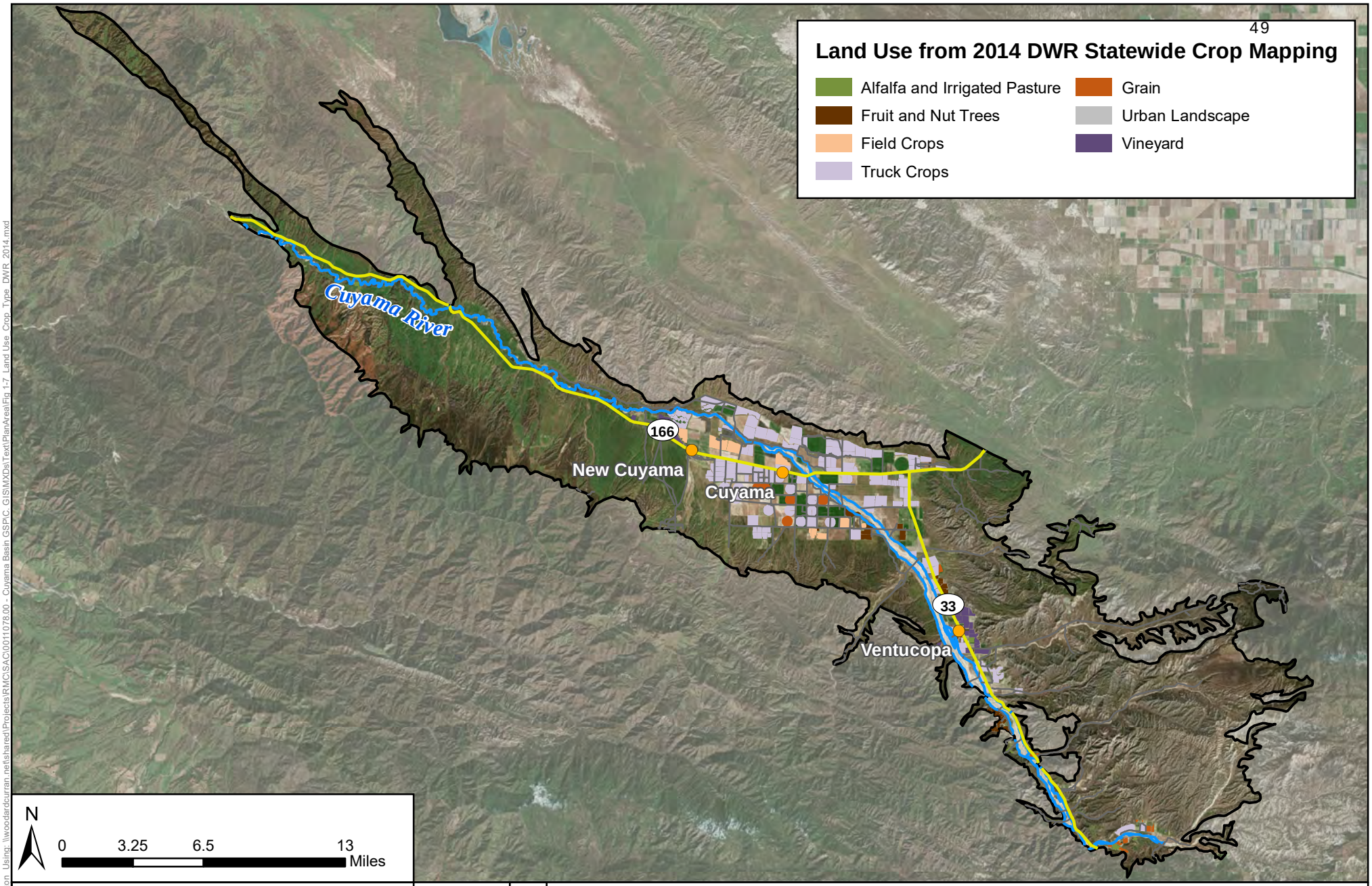


Figure 1-7 - 2014 Land Use

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

March 2018

WOODARD &CURRAN

Legend

- Towns
- Highways
- Local Roads
- Cuyama River
- Streams
- Cuyama Basin

Source: California Department of Water Resources Statewide Crop Mapping, 2014 dataset. https://www.water.ca.gov/Programs/Water-Use-And-Efficiency/Land-And-Water-Use/Land-Use-Surveys

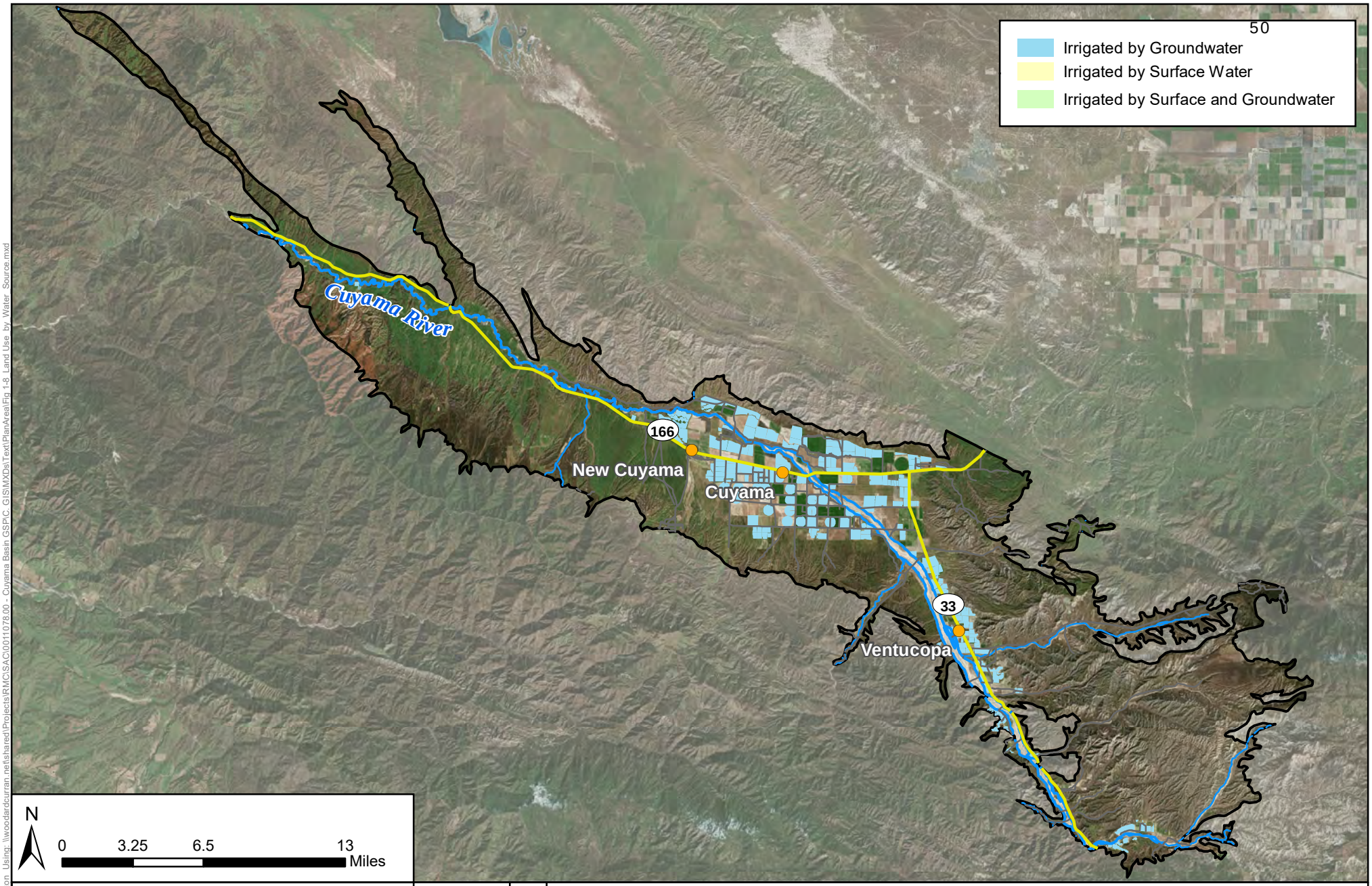


Figure 1-8 - Land Use by Water Source

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

March 2018

WOODARD &CURRAN

Legend

- Cuyama Basin
- Towns
- Highways
- Local Roads
- Cuyama River
- Streams

Source: California Department of Water Resources Statewide Crop Mapping, 2014 dataset. https://www.water.ca.gov/Programs/Water-Use-And-Efficiency/Land-And-Water-Use/Land-Use-Surveys

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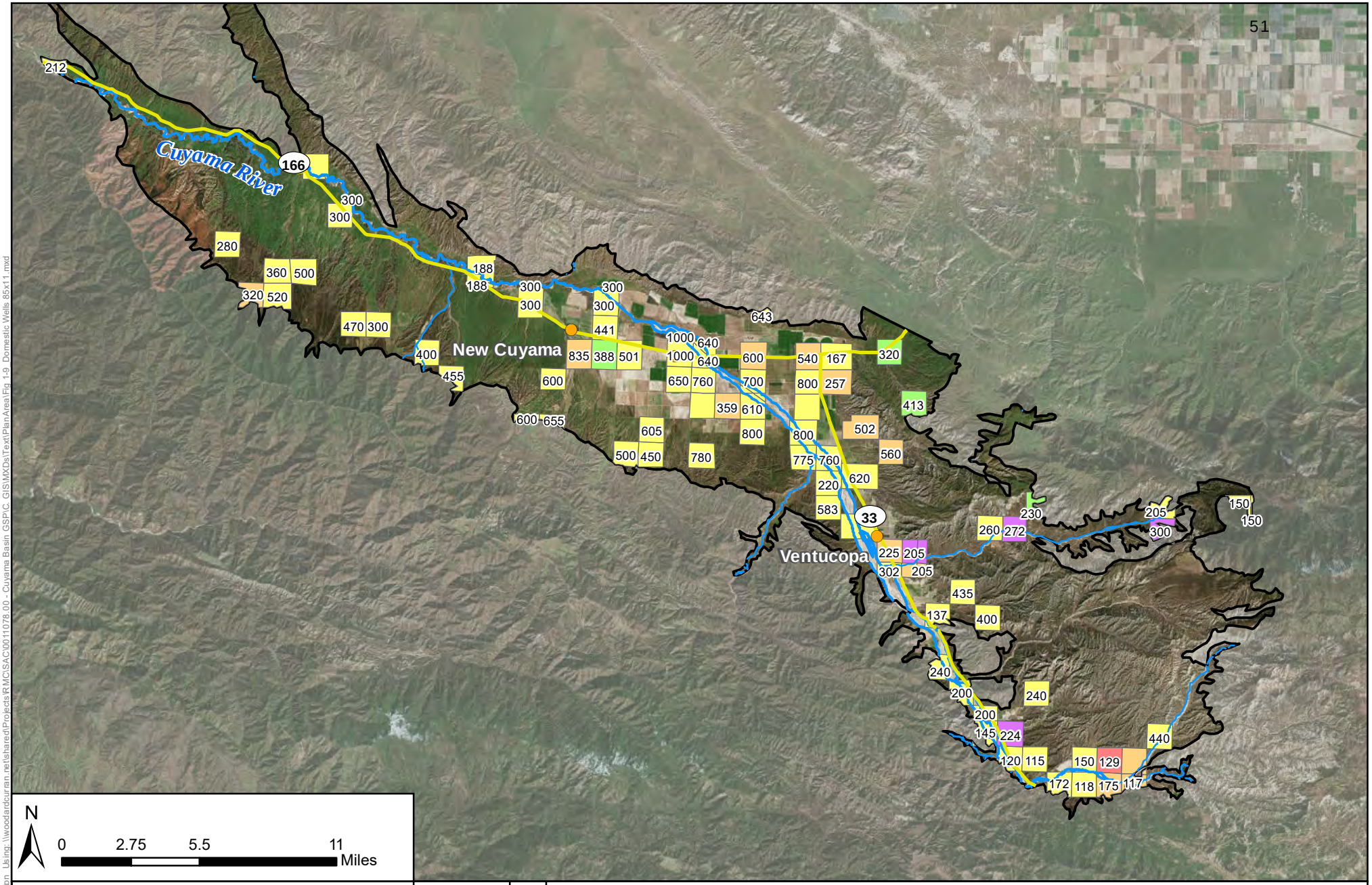

N

0 2.75 5.5 11 Miles

Figure 1-9 - Domestic Well Density and Average Depths

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

April 2018

WOODARD &CURRAN

Legend

- Cuyama Basin
- Towns
- Highways
- Cuyama River
- Streams

Township & Range with Domestic Wells

- 1 Well
- 2 Wells
- 3 Wells
- 4 Wells
- 6 Wells

Numbers in the township and range grid correspond to the average depth of the wells within that grid. Grids with no number have no associated well depth data. Average well depth is given in feet below the ground surface.

Source: Department of Water Resources, Well Completion Report Map Application. Downloaded on February 6, 2018. <https://dwr.maps.arcgis.com/apps/webappviewer/index.html?id=181078580a214c0986e2da28f8623b37>

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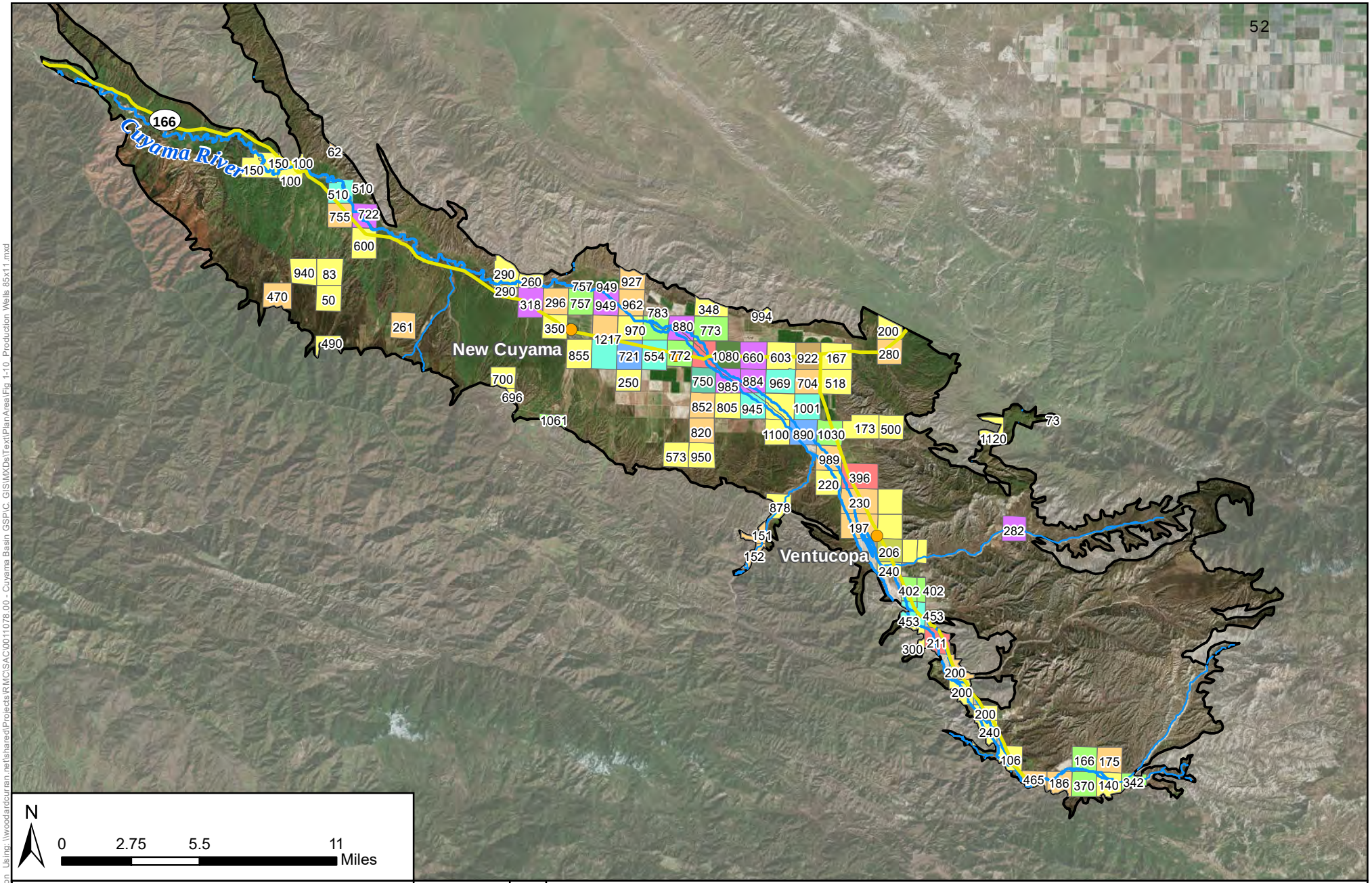

N

0 2.75 5.5 11 Miles

Figure 1-10 - Production Well Density and Average Depths

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

April 2018

WOODARD &CURRAN

Legend

- Cuyama Basin
- Towns
- Highways
- Cuyama River
- Streams

Township & Range with Domestic Wells

- 1 Well
- 2 Wells
- 3 Wells
- 4 Wells
- 5 Wells
- 6 Wells
- 7 Wells
- 8 Wells
- 9 Wells
- 10 Wells
- 11 Wells

Numbers in the township and range grid correspond to the average depth of the wells within that grid. Grids with no number have no associated well depth data. Average well depth is given in feet below the ground surface.

Source: Department of Water Resources, Well Completion Report Map Application. Downloaded on February 6, 2018. <https://dwr.maps.arcgis.com/apps/webappviewer/index.html?id=181078580a214c0986e2da28f8623b37>

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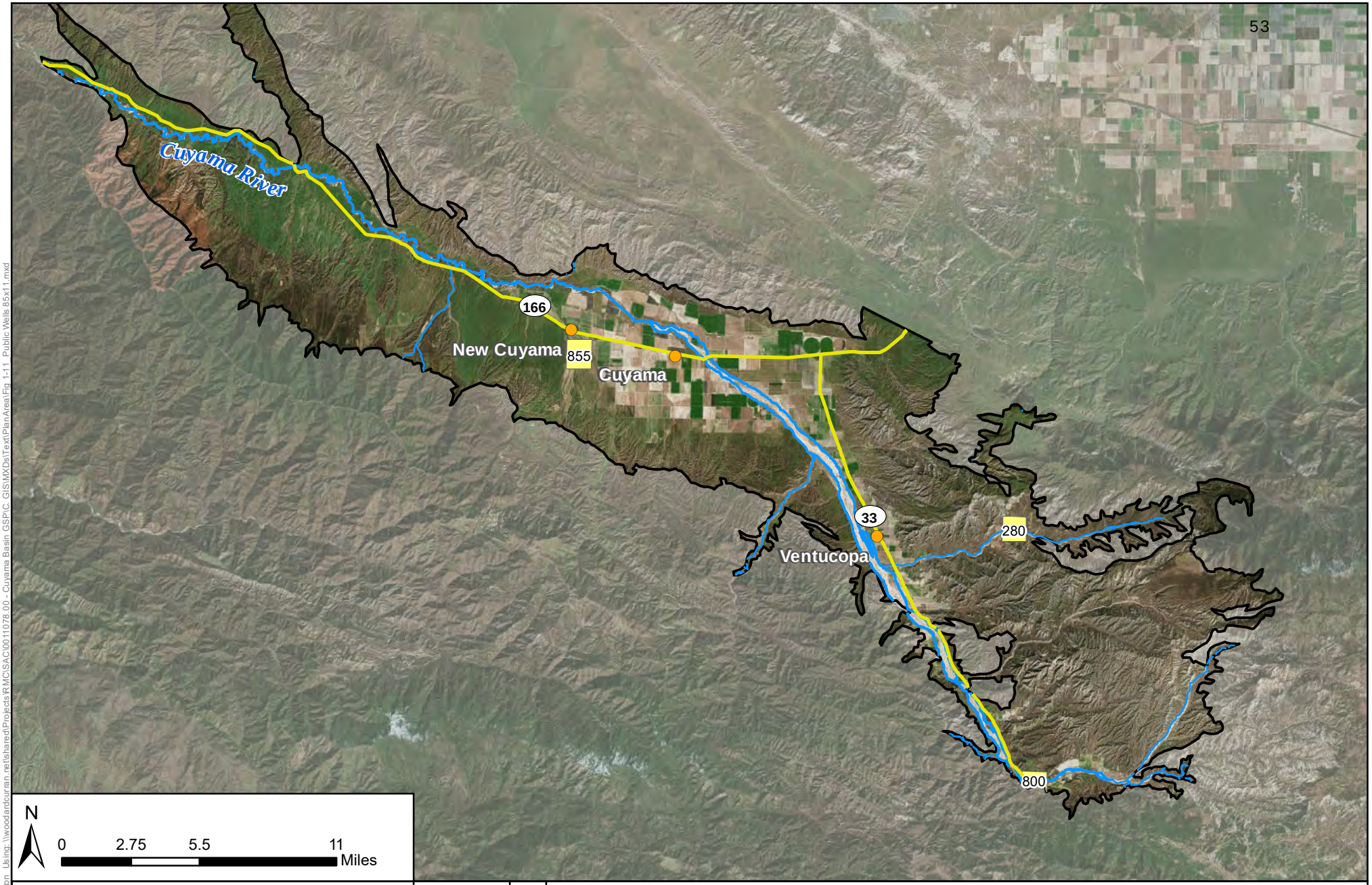

N

0 2.75 5.5 11 Miles

Figure 1-11 - Public Well Density and Average Depths

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

April 2018

WOODARD &CURRAN

Legend

- Cuyama Basin
- Towns
- Highways
- Cuyama River
- Streams

Township & Range with Domestic Wells

- 1 Well

Numbers in the township and range grid correspond to the average depth of the wells within that grid. Grids with no number have no associated well depth data. Average well depth is given in feet below the ground surface.

Source: Department of Water Resources, Well Completion Report Map Application. Downloaded on February 6, 2018. <https://dwr.maps.arcgis.com/apps/webappviewer/index.html?id=181078580a214c0986e2da28f8623b37>

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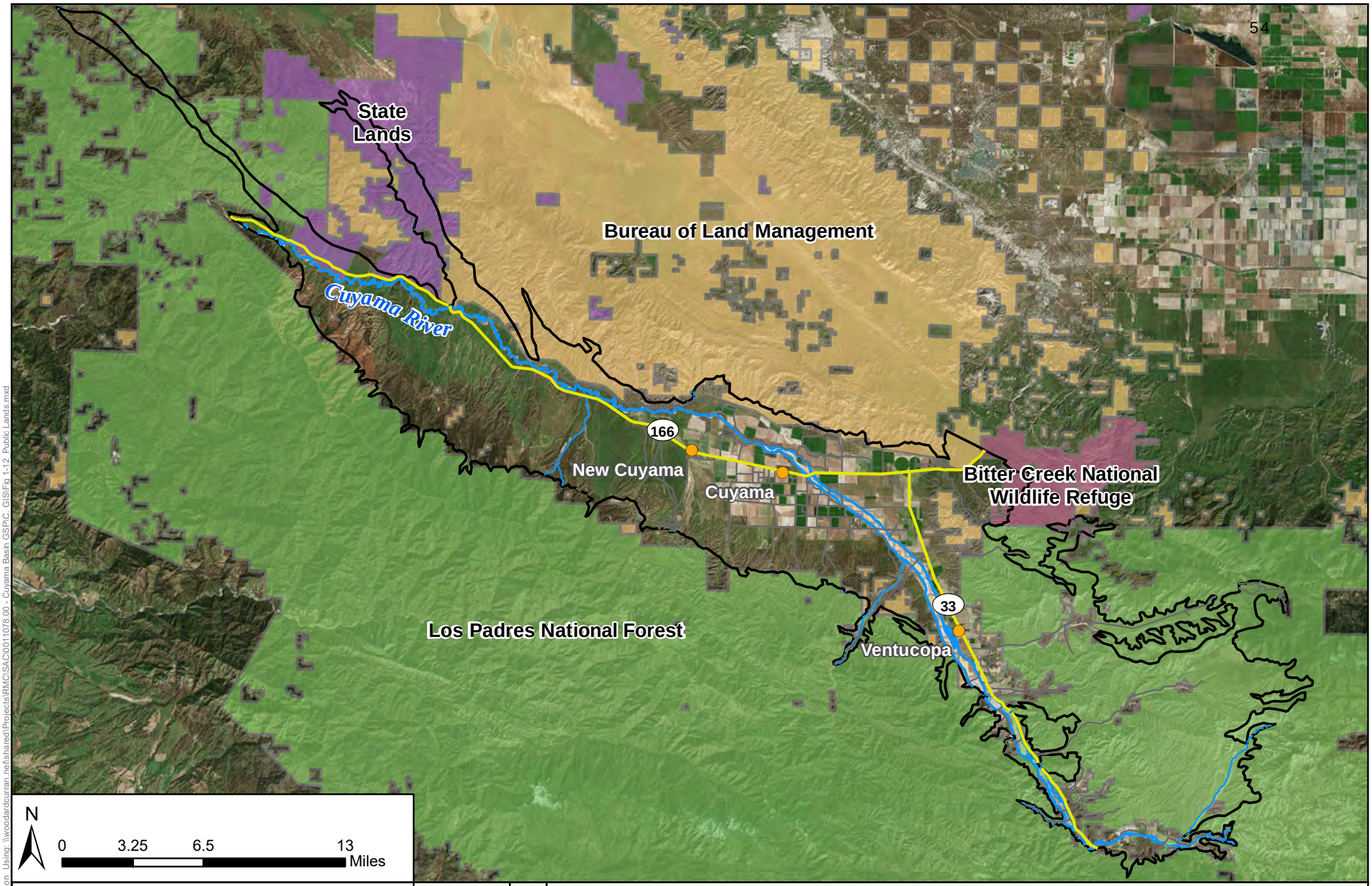

Figure 1-12 - Federal and State Lands

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

February 2018

WOODARD &CURRAN

Legend

- Cuyama Basin
- Towns
- Highways
- Local Roads
- Cuyama River
- Streams
- Bureau of Land Management
- US Forest Service
- US Fish and Wildlife
- State Lands

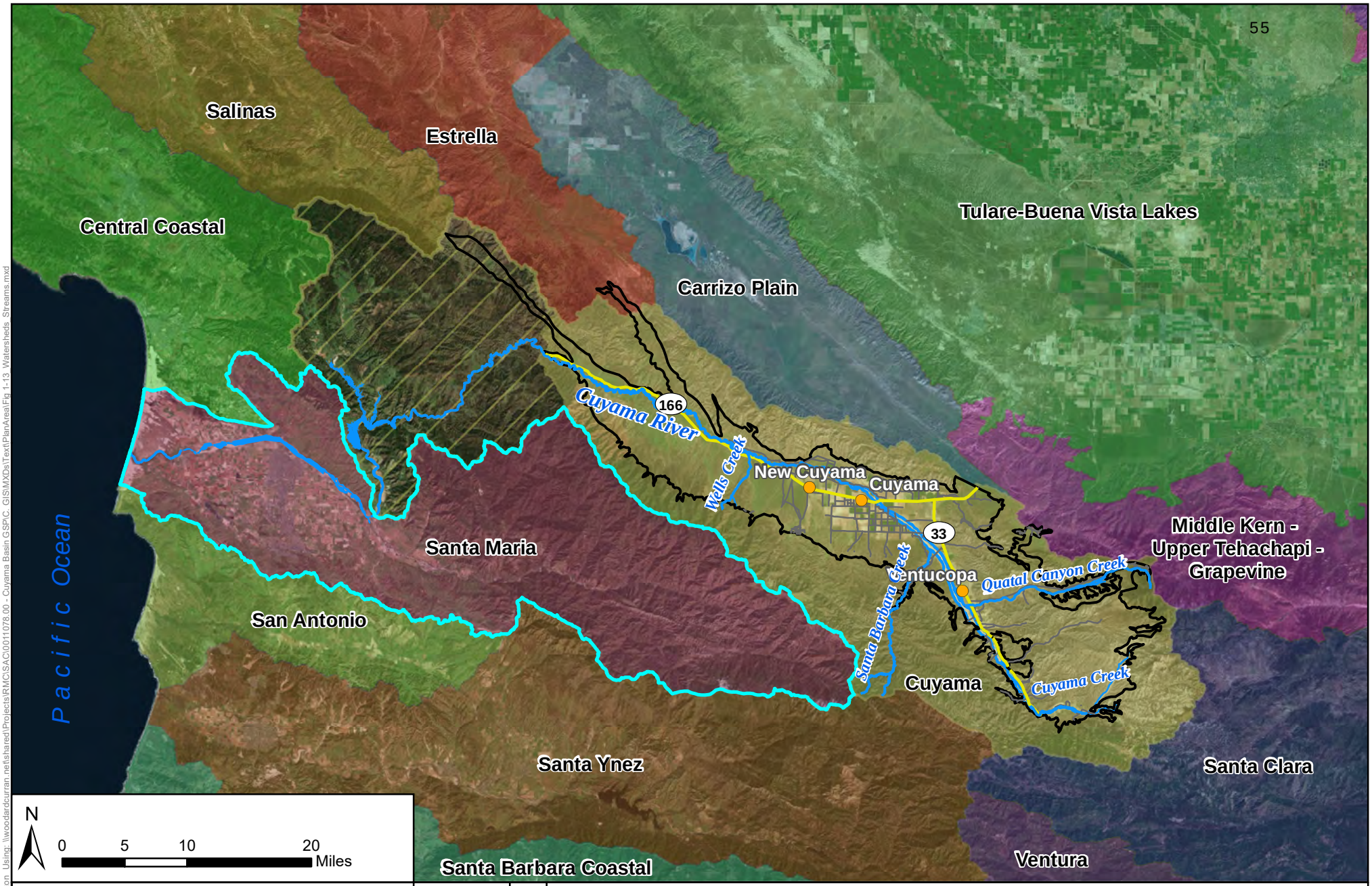

Figure 1-13 - Regional Watersheds

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

February 2018

WOODARD &CURRAN

Legend

- Cuyama Basin
- Towns
- Highways
- Local Roads
- Cuyama River
- Streams

Cuyama Watershed

- Contributes to Cuyama GW Basin
- Does Not Contribute to Cuyama GW Basin

Watershed Data Source: USGS TNM Hydrography (WBD), U.S. Geological Survey - National Geospatial Program
Watersheds are 8-digit Hydrologic Units

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1.4 Existing Surface Water Monitoring Programs

Existing surface water monitoring in the Cuyama Basin is extremely limited. Existing surface water monitoring in the basin is limited to DWR's California Data Exchange Center (CDEC) program, and monitoring performed by the United States Geological Survey (USGS). The only CDEC gages in the Cuyama River watershed are at Lake Twitchell which is downstream of the Cuyama Basin. The USGS has two active gages that capture flows in the Cuyama River watershed upstream of Lake Twitchell, as well as four deactivated gages (Figure 1-14).

The two active gages include one gage on the Cuyama River downstream of the Basin (ID #11136800), which is located just upstream of Lake Twitchell. This gage has 58 recorded years of streamflow measurements from 1959 to 2017. The other active gage is south of the city of Ventucopa along Santa Barbara Canyon Creek (ID #11136600) and has seven recorded years of streamflow measurements ranging from 2010 to 2017. and another gage downstream of the watershed but above Twitchell reservoir on the Cuyama River. Although neither of these stream gages is located within the Cuyama Basin, they can be used to monitor the inflow and outflow of surface water through the Basin.

<< Description of how (and which) monitoring programs will be used in the GSP (fill in after monitoring network is prepared)>>

1.5 Existing Groundwater Monitoring Programs

Existing groundwater monitoring programs in the Cuyama Basin are primarily operated by regional, state and federal agencies. Local agencies such as the CCSD and CBWD do not conduct routine monitoring. Existing groundwater monitoring programs in the Basin collect data on groundwater elevation, groundwater quality and subsidence at varying temporal frequencies. There are 101 wells with groundwater elevation data, of which, 43 were monitored in 2017. A description of each groundwater monitoring program in the Basin is described in further detail below.

<< Description of how (and which) monitoring programs will be used in the GSP (fill in after monitoring network is prepared)>>

1.5.1 Groundwater Elevation Monitoring

Department of Water Resources Water Data Library

DWR's Water Data Library (WDL) is a database that stores groundwater elevation measurements from 78 unique wells in the Cuyama Basin measured from 1946 through 2017. Data is submitted to the WDL from different monitoring entities, including the Ventura County Watershed Protection District (VCWPD), SBCWA, Santa Barbara County Flood Control and Water Conservation District (SBCFC&WCD), and San Luis Obispo County Flood Control and Water Conservation District (SLOCFC&WCD).

SLOCFC&WCD has two wells in the service area with data recorded from 1990 to 2017. The VCWPD has elevation data for two wells, monitored from 2011 to 2017, and the SBCWA has elevation data for 16 wells from 2011 to 2017.

The USGS and SBCFC&WCD have monitored wells for groundwater levels in the Cuyama Basin but are no longer actively submitting data. The USGS provides historical data for 48 wells from 1946 to 2009, and the SBCFC&WCD provides data on seven wells from 2008 to 2010.

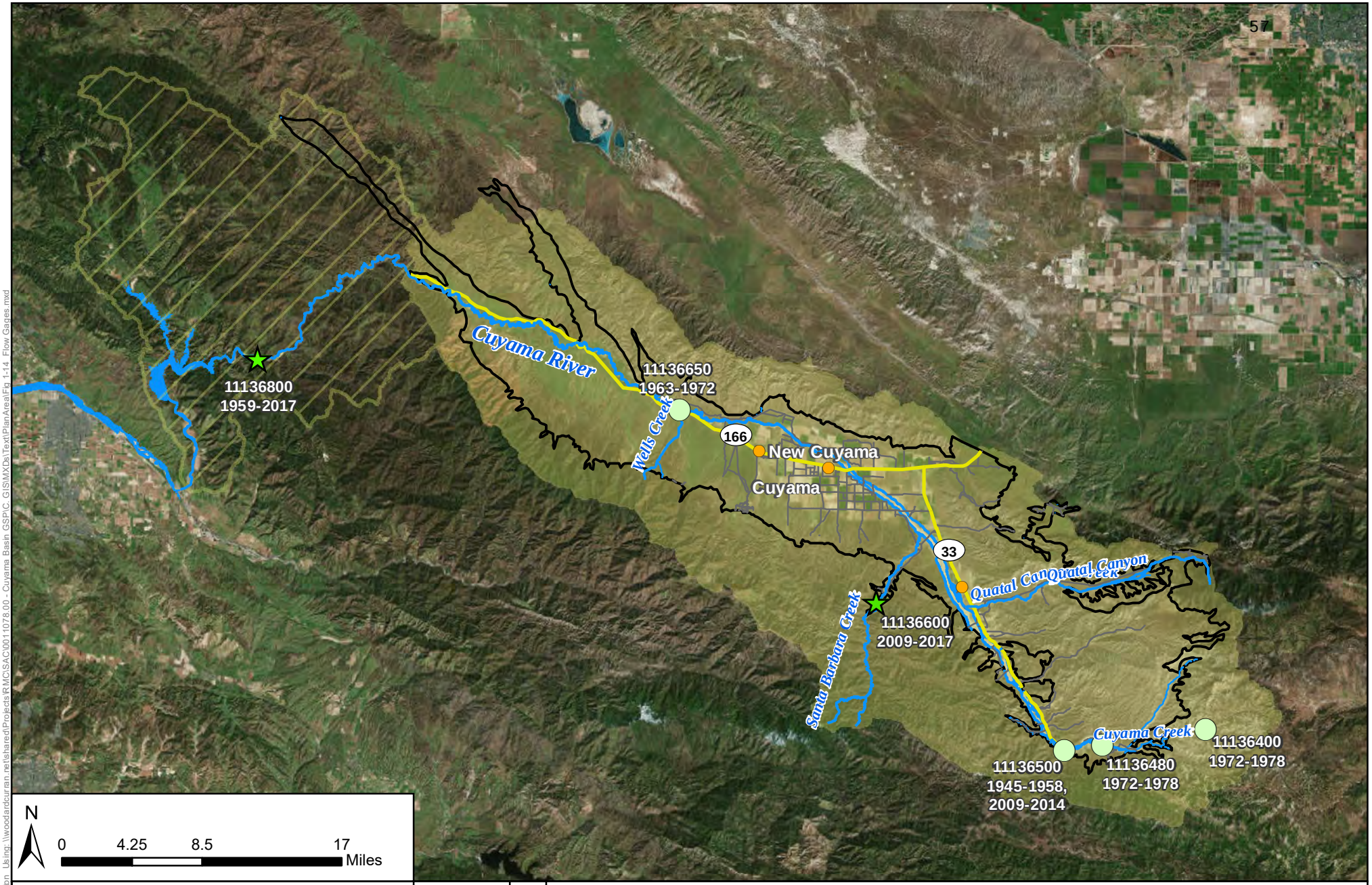

Figure 1-14 - Surface Stream Flow Gages

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

March 2018

WOODARD &CURRAN

Legend

- Cuyama Basin
- Towns
- Highways
- Local Roads
- Cuyama River
- Inactive Flow Gages
- Active Flow Gages

Cuyama Watershed

- Contributes to Cuyama GW Basin
- Does Not Contribute to Cuyama GW Basin

Figure Exported: 4/17/2018 By: cegdleton Using: \\woodardcurran.net\shared\Projects\RMCSAC\00111078.00 - Cuyama Basin GSP\C. GIS\MXDs\Text\PlanArea\Fig 1-14 Flow Gages.mxd

United States Geological Survey – National Water Information System

The USGS's National Water Information System (NWIS) contains extensive water data, including manual measurements of depth to water in wells throughout California. In the Cuyama Basin, there are 23 wells with water level measurements (in feet below land surface). Wells are monitored by the USGS in SBCFC&WCD's jurisdictional area. Wells were monitored in 2017, with most being monitored since 2008, although a few have measurements dating back to 1983. Groundwater level measurements at these wells are taken approximately once per quarter.

California Statewide Groundwater Elevation Monitoring

The California Statewide Groundwater Elevation Monitoring (CASGEM) Program monitors seasonal and long-term groundwater elevation trends in dedicated groundwater basins throughout California. Monitoring entities establish CASGEM dedicated monitoring wells and report seasonal groundwater levels to CASGEM's database. The information below describes sources where CASGEM data can be retrieved.

Department of Water Resources Groundwater Information Center Interactive Map

The Groundwater Information Center Interactive Map (GICIMA) is a database that collects and stores groundwater elevations and depth-to-water measurements. Groundwater elevations are measured biannually in the spring and fall by local monitoring agencies. Depth-to-water and groundwater elevation data is submitted to the GICIMA by the various monitoring entities including the SLOCFC&WCD, SBCWA, and VCWPD. In the Cuyama Basin, there are 21 wells with seasonal elevation level and depth-to-water data from 2013 to 2016. Of the 21 wells, 17 are monitored by the SBCWA, two are monitored by SLOFC&WCD, and two are monitored by the VCWPD.

Santa Barbara County Water Agency California Statewide Groundwater Elevation Monitoring Plan

The SBCWA's CASGEM Monitoring Plan discusses the SBCWA's 19-well monitoring network, which includes 16 actively monitored wells and three inactive wells no longer monitored due to accessibility and permission issues. Initially, SBCWA was the sole monitoring entity for the entire Basin, but in 2014 SBCWA reapplied to CASGEM as a partial monitoring entity to reduce their monitoring activities and grant permission for neighboring counties (San Luis Obispo and Ventura) to monitor their portions of the Basin.

Of the 16 active wells in SBCWA's monitoring network, three are CASGEM dedicated monitoring wells and 13 are voluntary. Wells are monitored by either SBCWA staff or USGS staff. The three CASGEM dedicated monitoring wells are measured biannually in April and October, whereas the 13 voluntary wells are measured annually. All wells are single completion. CASGEM dedicated wells have known Well Completion Reports and perforated intervals. Full construction information is not available for voluntary wells because SBCWA does not have permission to release available construction information. This known data gap was identified in the Monitoring Plan in addition to other data gaps, including:

- Spatial gaps in the northwestern and southeastern areas of the Santa Barbara County portion of the Basin.
- Data gaps in the area north of Highway 166 and in the center of the Basin between Bell and Kirschenmann Roads.

San Luis Obispo County Flood Control and Water Conservation District California Statewide Groundwater Elevation Monitoring Plan

The SLOCFC&WCD's CASGEM Monitoring Plan identifies two wells in their CASGEM monitoring network. Upon recognition as a CASGEM monitoring entity in 2014, San Luis Obispo County Department of Public Works staff monitored these wells biannually. Static water level measurements are obtained biannually in April and October (corresponding to seasonal highs and low groundwater elevations). One well is screened in the Younger Alluvium and Older Alluvium and the other well is screened in the Younger Alluvium, Older Alluvium, and Morales Formation. Data gaps identified by SLOCFC&WCD's Monitoring Plan include:

- **Horizontal spatial gap.** SLOCFC&WCD is responsible for monitoring 37 square miles of the Cuyama Basin. Based on the target minimum density of at least one well per 10 square miles, SLOCFC&WCD needs a minimum of four wells to meet CASGEM program requirements (DWR, 2016). SLOCFC&WCD identified the need to add two additional wells to the monitoring network to meet CASGEM's target well density criteria.

Ventura County Watershed Protection District CASGEM Monitoring Plan

The VCWPD CASGEM Monitoring Plan identifies the two wells in their CASGEM monitoring network. Upon recognition as a CASGEM monitoring entity in 2014, VCWPD staff have monitored the two wells biannually. Static water level measurements are obtained biannually, due to the remoteness of the area, in April and October (corresponding to seasonal highs and low groundwater elevations). The two wells are located in the southernmost portion of the Basin.

VCWPD does not have information beyond location and water elevation measurements for the two wells. There are no well completion reports for either well and the perforation intervals are unknown. VCWPD identifies the southeastern portion of the Basin as a spatial data gap, given that the area contains no monitoring wells.

1.5.2 Groundwater Quality Monitoring

Water Data Library (WDL)

DWR's WDL monitors groundwater quality data. Samples are collected from a variety of well types including irrigation, stock, domestic, and some public supply wells. WDL has 26 years of groundwater quality data dating from 1952 to 1978, which were collected from 163 wells in the Cuyama Basin over that time frame, though many have not been monitored since 1978. Wells are not regularly sampled, and most wells have only one or two days' worth of sampling measurements and large temporal gaps between the results. Constituents most frequently monitored include dissolved chloride, sodium, calcium, boron, magnesium, and sulfate. Measurements taken include conductance, pH, total alkalinity and hardness (more than 1,000 total samples per parameter). Additional dissolved nutrients, metals, and total dissolved solids (TDS) are also sampled but have fewer sample results available (one to 1,000 samples per parameter).

GeoTracker Groundwater Ambient Monitoring and Assessment Program

Established in 2000, the Groundwater Ambient Monitoring and Assessment (GAMA) Program monitors groundwater quality throughout the state of California. GAMA is intended to create a comprehensive

groundwater monitoring program throughout California and increase public availability and access to groundwater quality and contamination information. GAMA receives data from a variety of monitoring entities including DWR, USGS, and the State Water Resources Control Board (SWRCB). In the Basin, there are 367 wells with water quality data submitted to GAMA, of which 72 were monitored in 2017. In the Cuyama Groundwater Basin, three agencies submit data from monitoring wells for a suite of constituents including TDS, nitrates and nitrites, arsenic, and manganese.

National Water Information System

The USGS's NWIS monitors groundwater for chemical, physical, and biological properties in water supply wells throughout the Basin and data is updated to GeoTracker on a quarterly basis. The majority of wells with groundwater quality data were monitored prior to 2015. NWIS has records for 163 wells in the Basin, monitored between 1942 to 2013, 34 of which were from 2005 to 2017.

Irrigated Lands Regulatory Program

The Irrigated Lands Regulatory Program (ILRP), established in 2003, regulates discharges from irrigated agriculture to surface and ground waters and establishes waste discharge orders for selected regions. The ILRP focuses on priority water quality issues, such as pesticides and toxicity, nutrients, and sediments. In the Cuyama Basin, there are 47 wells with five years of water quality records from 2012 to 2017. Wells are sampled biannually, once between March and June, and once between September and December.

Division of Drinking Water

The SWRCB's Division of Drinking Water (DDW, and formerly the Department of Health Services) monitors public water system wells for California Code of Regulations Title 22 requirements relative to levels of organic and inorganic compounds such as metals, microbial compounds and radiological analytes. Data is available for active and inactive drinking water sources, for water systems that serve the public, and wells defined as serving 15 or more connections, or more than 25 people per day. In the Cuyama Basin, six DDW wells were monitored for Title 22 requirements, including pH, alkalinity, bicarbonate, calcium, magnesium, potassium, sulfate, barium, copper, iron, zinc, and nitrate. Monitoring data from these wells is available for the period 1985 to 2016.

1.5.3 Subsidence Monitoring

In the Cuyama Basin, subsidence monitoring is performed using continuous global positioning system (GPS) stations monitored by the University NAVSTAR Consortium's (UNAVCO) Plate Boundary Observatory (PBO) program. There are no known extensometers in the Cuyama Basin.

UNAVCO Plate Boundary Observatory

The UNAVCO PBO network consists of a network of about 1,100 continuous GPS and meteorology stations in the western U.S. used to monitor multiple pieces of information, including subsidence. There are two stations in the Cuyama Basin: (1) CUHS, located near the city of New Cuyama; and (2) VCST, located south of the city of Ventucopa. The CUHS station has subsidence data from 2000 through 2017, and the VCST station has subsidence data from 2001 through 2017.

Placeholder for other USGS Subsidence Monitoring

1.6 Existing Water Management Programs

1.6.1 Santa Barbara County Integrated Regional Water Management Plan 2013

The Santa Barbara County Integrated Regional Water Management Plan 2013 (IRWM Plan 2013) is the main integrated regional water management planning document for the Santa Barbara County IRWM Region (County of Santa Barbara, 2013). IRWM Plan 2013 emphasizes multi-agency collaboration, stakeholder involvement and collaboration, regional approaches to water management, water management involvement in land use decisions, and project monitoring to evaluate results of current practices. IRWM Plan 2013 identifies regionally and locally focused projects that help achieve regional objectives and targets while working to address water-related challenges in the region.

The following IRWM Plan 2013 objectives related to groundwater use would potentially influence implementation of the GSP:

- Protect, conserve, and augment water supplies
- Protect, manage, and increase groundwater supplies
- Practice balanced natural resource stewardship
- Protect and improve water quality
- Maintain and enhance water and wastewater infrastructure efficiency and reliability

IRWM Plan 2013 provides valuable resources related to potential concepts, projects and monitoring strategies that can be incorporated into the CBGSA GSP.

1.6.2 San Luis Obispo County 2014 Integrated Regional Water Management Plan

The San Luis Obispo 2014 IRWM Plan presents a comprehensive water resources management approach to managing the region's water resources, focusing on strategies to improve the sustainability of current and future needs of San Luis Obispo County (County of San Luis Obispo, 2014).

The following 2014 IRWM Plan goals related to groundwater use would potentially influence implementation of the GSP:

- **Water Supply Goal:** Maintain or improve water supply quantity and quality for potable water, fire protection, ecosystem health, and agricultural production needs; as well as to cooperatively address limitations, vulnerabilities, conjunctive-use, and water-use efficiency.
- **Ecosystem and Watershed Goal:** Maintain or improve the health of the Region's watersheds, ecosystems, and natural resources through collaborative and cooperative actions, with a focus on assessment, protection, and restoration/enhancement of ecosystem and resource needs and vulnerabilities.
- **Groundwater Monitoring and Management (Groundwater) Goal:** Achieve sustainable use of the region's water supply in groundwater basins through collaborative and cooperative actions.
- **Water Resources Management and Communications (Water Management) Goal:** Promote open communications and regional cooperation in the protection and management of water

resources, including education and outreach related to water resources conditions, conservation/water use efficiency, water rights, water allocations, and other regional water resource management efforts.

The 2014 IRWM Plan provides valuable resources related to potential concepts, projects, and monitoring strategies that can be incorporated into the CBGSA GSP.

1.6.3 Ventura County 2014 Integrated Regional Water Management Plan

The Ventura County 2014 IRWM Plan reflects the unique needs of a diverse region in Ventura County, which encompasses three major watersheds, ten cities, portions of the Los Padres National Forest, a thriving agricultural economy, and is home to more than 823,000 people (County of Ventura, 2014). The Plan is a comprehensive document that primarily addresses region-wide water management and related issues.

The following 2014 IRWM Plan goals related to groundwater use would potentially influence implementation of the GSP:

- Reduce dependence on imported water and protect, conserve and augment water supplies.
- Protect and improve water quality.
- Protect and restore habitat and ecosystems in watersheds.

The 2014 IRWM Plan provides valuable resources related to potential concepts, projects and monitoring strategies that can be incorporated into the CBGSA GSP.

1.6.4 Kern County 2011 Integrated Regional Water Management Plan

The Kern County 2011 IRWM Plan covers most of Kern County but does not include the portion of the county that includes the Cuyama Basin (Kern County Water Agency, 2011). Therefore, the IRWM Plan is not relevant to the Cuyama GSP and is not addressed here.

1.7 General Plans in Plan Area

As illustrated in Figure 1-4, the Cuyama Basin is located within the geographic boundaries of four counties, including Kern, San Luis Obispo, Santa Barbara and Ventura. Implementation of the CBGSA GSP would be affected by the policies and regulations outlined in the General Plans of these counties, given that the Cuyama Basin, and long-term land use planning decisions that would affect the Basin, are under the jurisdiction of these counties.

This section describes how implementation of the various General Plans may change water demands in the Basin, for example due to population growth and development of the built environment, how the General Plans may influence the GSP's ability to achieve sustainable groundwater use, and how the GSP may affect implementation of General Plan land use policies.

1.7.1 Kern County General Plan

Because of the close interrelationship between water supplies, land use, conservation, and open space issues, the Land Use, Conservation, and Open Space Element sections of the Kern County General Plan are

the most relevant elements for development of the GSP. These elements provide for a variety of land uses for future economic growth while also assuring the conservation of Kern County's agricultural, natural, and resource attributes (County of Kern, 2009).

Relevant Kern County General Plan Goals and Policies

The following Land Use, Conservation, and Open Space Element goals and policies related to groundwater use would potentially influence implementation of the GSP:

- **Goal 1.4.5:** Ensure that adequate supplies of quality water (appropriate for intended use) are available to residential, industrial, and agricultural users in Kern County.
- **Policy 1.4.2:** The efficient and cost-effective delivery of public services and facilities will be promoted by designating areas for urban development which occur in or adjacent to areas with adequate public service and facility capacity.
- **Policy 1.4.2.a:** Ensure that water quality standards are met for existing users and future development.
- **Goal 1.6.6:** Promote the conservation of water quantity and quality in Kern County.
- **Goal 1.6.7:** Minimize land use conflicts between residential and resource, commercial, and industrial land uses.
- **Policy 1.6.11:** Provide for an orderly outward expansion of new urban development so that it maintains continuity of existing development, allows for the incremental expansion of infrastructure and public service, minimizes impacts on natural environmental resources, and provides a high-quality environment for residents and businesses.
- **Policy 1.9.10:** To encourage effective groundwater resource management for the long-term economic benefit of the county, the following shall be considered:
- **Policy 1.9.10.a:** Promote groundwater recharge activities in various zone districts.
- **Policy 1.9.10.c:** Support the development of groundwater management plans.
- **Policy 1.9.10.d:** Support the development of future sources of additional surface water and groundwater, including conjunctive use, recycled water, conservation, additional storage of surface water and groundwater and desalination.
- **Goal 1.10.1:** Ensure that the county can accommodate anticipated future growth and development while maintaining a safe and healthful environment and a prosperous economy by preserving valuable natural resources, guiding development away from hazardous areas, and assuring the provision of adequate public services.
- **Policy 1.10.6.39:** Encourage the development of the county's groundwater supply to sustain and ensure water quality and quantity for existing users, planned growth, and maintenance of the natural environment.
- **Policy 1.10.6.40:** Encourage utilization of community water systems rather than the reliance on individual wells.

- **Policy 1.10.6.41:** Review development proposals to ensure adequate water is available to accommodate projected growth.

Kern County General Plan's Influence on Water Demand and Groundwater Sustainability Plan's Goals

Review of relevant Kern County General Plan goals and policies reveals that the County's goals and policies relative to future land use development and conservation complement the use and conservation of groundwater resources goals that are anticipated to be included in the CBGSA GSP. The General Plan explicitly encourages development of the county's groundwater supply to ensure that existing users have access to high quality water, and states that future growth should be accommodated only while ensuring that adequate high-quality water supplies are available to existing and future users. Due to the complementary nature of the General Plan and the GSP, the General Plan requirements will likely be with goals that are anticipated to be included in the GSP.

Groundwater Sustainability Plan's Influence on Kern County General Plan's Goals and Policies

Successful implementation of the GSP will help to ensure that the Cuyama Basin's groundwater supply is managed in a sustainable manner. Given the small portion of the Cuyama Basin that lies in Kern County, and the GSP's alignment with the General Plan's goals, it is anticipated that GSP implementation will have little to no effects on the General Plan's goals related to sustainable land use development in the county.

1.7.2 San Luis Obispo County General Plan

The San Luis Obispo County General Plan describes official County policy on the location of land uses and their orderly growth and development. It is the foundation upon which all land use decisions are based, guides action the County takes to assure a vital economy, ensures a sufficient and adequate housing supply, and protects agricultural and natural resources (County of San Luis Obispo, 2015).

Relevant San Luis Obispo General Plan Principles and Policies

The following San Luis Obispo General Plan Land Use Element principles and policies related to groundwater use would potentially influence implementation of the GSP:

- **Principle 1:** Preserve open space, scenic natural beauty and natural resources. Conserve energy resources. Protect agricultural land and resources.
- **Policy 1.2:** Keep the amount, location and rate of growth allowed by the Land Use Element within the sustainable capacity of resources, public services and facilities.
- **Policy 1.3:** Preserve and sustain important water resources, watersheds and riparian habitats.

The following San Luis Obispo General Plan Conservation and Open Space Element goals and policies related to groundwater use would potentially influence implementation of the GSP:

- **Goal WR 1:** The county will have a reliable and secure regional water supply.
- **Policy WR 1.2:** Conserve Water Resources. Water conservation is acknowledged to be the primary method to serve the county's increasing population. Water conservation programs should be implemented countywide before more expensive and environmentally costly forms of new water are secured.

- **Policy WR 1.3:** New Water Supply. Development of new water supplies should focus on efficient use of our existing resources. Use of reclaimed water, interagency cooperative projects, desalination of contaminated groundwater supplies, and groundwater recharge projects should be considered prior to using imported sources of water or seawater desalination, or dams and on-stream reservoirs.
- **Policy WR 1.7:** Agricultural Operations. Groundwater management strategies will give priority to agricultural operations. Protect agricultural water supplies from competition by incompatible development through land use controls.
- **Policy WR 1.12:** Impacts of New Development. Accurately assess and mitigate the impacts of new development on water supply. At a minimum, comply with the provisions of Senate Bills 610 and 221.
- **Policy WR 1.14:** Avoid Net Increase in Water Use. Avoid a net increase in non-agricultural water use in groundwater basins that are recommended or certified as Level of Severity II or III for water supply. Place limitations on further land divisions in these areas until plans are in place and funded to ensure that the safe yield will not be exceeded.
- **Goal WR 2:** The County will collaboratively manage groundwater resources to ensure sustainable supplies for all beneficial uses.
- **Policy WR 2.1:** Groundwater quality assessments Prepare groundwater quality assessments, including recommended monitoring, and management measures.
- **Policy WR 2.2:** Groundwater Basin Reporting Programs. Support monitoring and reporting programs for groundwater basins in the region.
- **Policy WR 2.3:** Well Permits. Require all well permits to be consistent with the adopted groundwater management plans.
- **Policy WR 2.4:** Groundwater Recharge. Where conditions are appropriate, promote groundwater recharge with high-quality water.
- **Policy WR 2.5:** Groundwater Banking Programs. Encourage groundwater-banking programs.
- **Goal WR 3:** Excellent water quality will be maintained for the health of the people and natural communities.
- **Policy WR 3.2:** Protect Watersheds. Protect watersheds, groundwater and aquifer recharge areas, and natural drainage systems from potential adverse impacts of development projects.
- **Policy WR 3.3:** Improve Groundwater Quality. Protect and improve groundwater quality from point and non-point source pollution, including nitrate contamination; MTBE and other industrial, agricultural, and commercial sources of contamination; naturally occurring mineralization, boron, radionuclides, geothermal contamination; and seawater intrusion and salts.
- **Policy WR 3.4:** Water Quality Restoration. Pursue opportunities to participate in programs or projects for water quality restoration and remediation with agencies and organizations such as the Regional Water Quality Control Board (RWQCB), California Department of Fish and

Wildlife (CDFW), National Marine Fisheries Service (NMFS), and Resource Conservation Districts (RCDs) in areas where water quality is impaired.

- **Goal 4:** Per capita water use in the county will decline by 20% by 2020.
- **Policy WR 4.1:** Reduce Water Use. Employ water conservation programs to achieve an overall 20% reduction in per capita residential and commercial water use in the unincorporated area by 2020. Continue to improve agricultural water use efficiency consistent with Policy AGP 10 in the Agricultural Element.
- **Policy WR 4.2:** Water Pricing Structures. Support water-pricing structures to encourage conservation by individual water users and seek to expand the use of conservation rate structures in areas with Levels of Severity II and III for water supply.
- **Policy WR 4.3:** Water conservation The County will be a leader in water conservation efforts.
- **Policy WR 4.5:** Water for Recharge. Promote the use of supplemental water such as reclaimed sewage effluent and water from existing impoundments to prevent overdraft of groundwater. Consider new ways to recharge underground basins and to expand the use of reclaimed water. Encourage the eventual abandonment of ocean outfalls.
- **Policy WR 4.6:** Graywater. Encourage the use of graywater systems, rainwater catchments, and other water reuse methods in new development and renovation projects, consistent with state and local water quality regulations.
- **Policy WR 4.7:** Low Impact Development. Require Low Impact Development (LID) practices in all discretionary and land division projects and public projects to reduce, treat, infiltrate, and manage urban runoff.
- **Policy WR 4.8:** Efficient Irrigation. Support efforts of the resource conservation districts, California Polytechnic State University, the University of California Cooperative Extension, and others to research, develop, and implement more efficient irrigation techniques.
- **Goal 5:** The best possible tools and methods available will be used to manage water resources.
- **Policy WR 5.1:** Watershed Approach. The County will consider watersheds and groundwater basins in its approach to managing water resources in order to include ecological values and economic factors in water resources development.

The following San Luis Obispo General Plan Agriculture Element goals and policies related to groundwater use would potentially influence implementation of the GSP:

- **Policy AGP10a:** Encourage water conservation through feasible and appropriate “best management practices.” Emphasize efficient water application techniques; the use of properly designed irrigation systems; and the control of runoff from croplands, rangelands, and agricultural roads.
- **Policy AGP10b:** Encourage the U.C. Cooperative Extension to continue its public information and research program describing water conservation techniques that may be appropriate for agricultural practices in this county. Encourage landowners to participate in programs that conserve water.

- **Policy AGP11b:** Do not approve proposed general plan amendments or re-zonings that result in increased residential density or urban expansion if the subsequent development would adversely affect: (1) water supplies and quality, or (2) groundwater recharge capability needed for agricultural use.
- **Policy AGP11c:** Do not approve facilities to move groundwater from areas of overdraft to any other area, as determined by the Resource Management System in the Land Use Element.

San Luis Obispo County General Plan's Influence on Water Demand and Groundwater Sustainability Plan

The semi-arid climate in the county is subject to limited amounts of rainfall and recharge of groundwater basins and surface reservoirs. A focus of the County General Plan is that future development should take place recognizing that the dependable supply of some county groundwater basins is already being exceeded. If mining of groundwater continues in those areas without allowing aquifers to recharge, water supply and water quality problems will eventually result, which may be costly to correct and could become irreversible.

The General Plan explicitly encourages preservation of the county's natural resources, and states that future growth should be accommodated only while ensuring that this growth occurs within the sustainable capacity of these resources. Due to the complementary nature of the General Plan and the GSP, implementation of the GSP is anticipated to be consistent with the General Plan's goals and policies.

The county was expected to grow between 0.44-1% per year from 2013 through 2018, an increase of approximately 12,000 persons over the five-year period and is expected to grow by over 41,000 from 2010 to 2030 (County of San Luis Obispo, 2014). These growth estimates are County-wide and the General Plan does not specify how much growth, if any, is expected to occur within the Basin. Ensuring sustainable management of the basin through implementation of the GSP will be critical in terms of supporting projected population growth in the county while maintaining sustainable groundwater levels in the basin.

Groundwater Sustainability Plan's Influence on San Luis Obispo County General Plan's Goals and Policies

Successful implementation of the GSP will help to ensure that the Cuyama Basin's groundwater supply is managed in a sustainable manner. Given the amount of population growth projected in the county in the coming years, it is possible that changes in groundwater management by the GSP will impact the location and type of development that will occur in the Basin in the future. It is anticipated that GSP implementation will reinforce the General Plan's goals related to sustainable land use development in the county.

1.7.3 Santa Barbara County Comprehensive Plan

The Santa Barbara County Comprehensive Plan is a means by which more orderly development and consistent decision making in the county can be accomplished. The Plan involves a continuing process of research, analysis, goal-setting and citizen participation, the major purpose of which is to enable the County Board of Supervisors and Planning Commission to more effectively determine matters of priority in the allocation of resources, and to achieve the physical, social and economic goals of the communities in the county (County of Santa Barbara, 2016).

Relevant Santa Barbara County Comprehensive Plan Principles and Policies

The following Santa Barbara County Comprehensive Plan Land Use Element policies related to groundwater use would potentially influence implementation of the GSP:

- **Land Use Development Policy 4:** Prior to issuance of a development permit, the County shall make the finding, based on information provided by environmental documents, staff analysis, and the applicant, that adequate public or private services and resources (i.e., water, sewer, roads, etc.) are available to serve the proposed development.
- **Hillside and Watershed Protection Policy 7:** Degradation of the water quality of groundwater basins, nearby streams, or wetlands shall not result from development of the site. Pollutants, such as chemicals, fuels, lubricants, raw sewage, and other harmful waste, shall not be discharged into or alongside coastal streams or wetlands either during or after construction.

The following Santa Barbara County Comprehensive Plan Conservation Element, Groundwater Resources Section goals and policies related to groundwater use would potentially influence implementation of the GSP:

- **Goal 1:** To ensure adequate quality and quantity of groundwater for present and future county residents, and to eliminate prolonged overdraft of any groundwater basins.
- **Policy 1.1:** The County shall encourage and assist all of the county's water purveyors and other groundwater users in the conservation and management, on a perennial yield basis, of all groundwater resources.
- **Policy 1.2:** The County shall encourage innovative and/or appropriate, voluntary water conservation activities for increasing the efficiency of agricultural water use in the county.
- **Policy 1.3:** The County shall act within its powers and financial abilities to promote and achieve the enhancement of groundwater basin yield.
- **Goal 2:** To improve existing groundwater quality, where feasible, and to preclude further permanent or long-term degradation in groundwater quality.
- **Policy 2.1:** Where feasible, in cooperation with local purveyors and other groundwater users, the County shall act to protect groundwater quality where quality is acceptable, improve quality where degraded, and discourage degradation of quality below acceptable levels.
- **Policy 2.2:** The County shall support the study of adverse groundwater quality effects which may be due to agricultural, domestic, environmental and industrial uses and practices.
- **Goal 3:** To coordinate County land use planning decisions and water resources planning and supply availability.
- **Policy 3.1:** The County shall support the efforts of the local water purveyors to adopt and implement groundwater management plans pursuant to the Groundwater Management Act and other applicable law.
- **Policy 3.2:** The County shall conduct its land use planning and permitting activities in a manner which promotes and encourages the cooperative management of groundwater resources by

local agencies and other affected parties, consistent with the Groundwater Management Act and other applicable law.

- **Policy 3.3:** The County shall use groundwater management plans, as accepted by the Board of Supervisors, in its land use planning and permitting decisions and other relevant activities.
- **Policy 3.4:** The County's land use planning decisions shall be consistent with the ability of any affected water purveyor(s) to provide adequate services and resources to their existing customers, in coordination with any applicable groundwater management plan.
- **Policy 3.5:** In coordination with any applicable groundwater management plan(s), the County shall not allow, through its land use permitting decisions, any basin to become seriously over drafted on a prolonged basis.
- **Policy 3.6:** The County shall not make land use decisions which would lead to the substantial over commitment of any groundwater basin.
- **Policy 3.7:** New urban development shall maximize the use of effective and appropriate natural and engineered recharge measures in project design, as defined in design guidelines to be prepared by the Santa Barbara County Flood Control and Water Conservation District in cooperation with P&D.
- **Policy 3.8:** Water-conserving plumbing, as well as water-conserving landscaping, shall be incorporated into all new development projects, where appropriate, effective, and consistent with applicable law.
- **Policy 3.9:** The County shall support and encourage private and public efforts to maximize efficiency in the pre-existing consumptive M&I use of groundwater resources.
- **Policy 3.10:** The County, in consultation with the cities, affected water purveyors, and other interested parties, shall promote the use of consistent "significance thresholds" by all appropriate agencies with regard to groundwater resource impact analysis.
- **Goal 4:** To maintain accurate and current information on groundwater conditions throughout the county.
- **Policy 4.1:** The County shall act within its powers and financial abilities to collect, update, refine, and disseminate information on local groundwater conditions.

The following Santa Barbara County Comprehensive Plan Agricultural Element goal and policy related to groundwater use would potentially influence implementation of the GSP:

- **Goal 1:** Santa Barbara County shall assure and enhance the continuation of agriculture as a major viable production industry in Santa Barbara Country. Agriculture shall be encouraged. Where conditions allow, (taking into account environmental impacts) expansion and intensification shall be supported.
- **Policy 1F:** The quality and availability of water, air, and soil resources shall be protected through provisions including but not limited to, the stability of Urban/Rural Boundary Lines, maintenance of buffer areas around agricultural areas, and the promotion of conservation practices.

Santa Barbara County Comprehensive Plan's Influence on Water Demand and Groundwater Sustainability Plan's Goals

Review of relevant Santa Barbara County Comprehensive Plan goals and policies reveals that the County's goals and policies relative to future land use development and conservation complement the use and conservation of groundwater resources goals anticipated to be included in the CBGSA GSP. The Comprehensive Plan explicitly states as a goal ensuring that adequate quality and quantity of groundwater will be available for present and future county residents, as well as the elimination of prolonged overdraft of any groundwater basins through land use planning decisions and water resources planning. Due to the complementary nature of the General Plan and the GSP, implementation of the General Plan would be a catalyst toward successful implementation of the GSP's goals.

The county is expected to grow from 428,600 to 520,000 residents between 2015 and 2040 (SBCAG, 2012). These growth estimates are County-wide and the General Plan does not specify how much growth, if any, is expected to occur within the Basin. Ensuring sustainable management of the Basin through implementation of the GSP will be critical in terms of supporting projected population growth in the county while maintaining sustainable groundwater levels in the Basin.

Groundwater Sustainability Plan's Influence on Santa Barbara County Comprehensive Plan's Goals and Policies

Successful implementation of the GSP will help to ensure that the Cuyama Basin's groundwater supply is managed in a sustainable manner. Given the amount of population growth projected in the county in the coming years, it is possible that changes in groundwater management by the GSP will result in changes to the pace, location and type of development that will occur in the county in the future. It is anticipated that GSP implementation will be consistent with the Comprehensive Plan's goals related to sustainable land use development in the county.

1.7.4 Ventura County General Plan

The Ventura County General Plan consists of: (a) countywide Goals, Policies and Programs containing four chapters (Resources, Hazards, Land Use, and Public Facilities and Services), (b) four appendices (Resources, Hazards, Land Use, and Public Facilities and Services) which contain background information and data in support of the Countywide Goals, Policies and Programs, and (c) several Area Plans which contain specific goals, policies and programs for specific geographical areas of the county.

Relevant Ventura County General Plan Principles and Policies

The following Ventura County General Plan (Resources Chapter, Water Resources Section, 1.3.1 Goals, 1.3.2 Policies) goals and policies related to groundwater use would potentially influence implementation of the GSP:

- **Goal 1:** Inventory and monitor the quantity and quality of the county's water resources.
- **Goal 2:** Effectively manage the water resources of the county by adequately planning for the development, conservation and protection of water resources for present and future generations.

- **Goal 3:** Maintain and, where feasible, restore the chemical, physical and biological integrity of surface and groundwater resources.
- **Goal 4:** Ensure that the demand for water does not exceed available water resources.
- **Goal 5:** Protect and, where feasible, enhance watersheds and aquifer recharge areas.
- **Goal 6:** Promote reclamation and reuse of wastewater for recreation, irrigation and to recharge aquifers.
- **Goal 7:** Promote efficient use of water resources through water conservation.
- **Policy 1:** Discretionary development which is inconsistent with the goals and policies of the County's Water Management Plan (WMP) shall be prohibited, unless overriding considerations are cited by the decision-making body.
- **Policy 2:** Discretionary development shall comply with all applicable County and State water regulations.
- **Policy 3:** The installation of on-site septic systems shall meet all applicable State and County regulations.
- **Policy 4:** Discretionary development shall not significantly impact the quantity or quality of water resources in watersheds, groundwater recharge areas or groundwater basins.
- **Policy 5:** Landscape plans for discretionary development shall incorporate water conservation measures as prescribed by the County's Guide to Landscape Plans, including use of low water usage landscape plants and irrigation systems and/or low water usage plumbing fixtures and other measures designed to reduce water usage.
- **Policy 10:** All new golf courses shall be conditioned to prohibit landscape irrigation with water from groundwater basins or inland surface waters identified as Municipal and Domestic Supply or Agricultural Supply in the California Regional Water Quality Control Board's Water Quality Control Plan unless either: a) the existing and planned water supplies for a Hydrologic Area, including interrelated Hydrologic Areas and Subareas, are shown to be adequate to meet the projected demands for existing uses as well as reasonably foreseeable probable future uses in the area, or b) it is demonstrated that the total groundwater extraction/recharge for the golf course will be equal to or less than the historic groundwater extraction/recharge (as defined in the Ventura County Initial Study Assessment Guidelines) for the site. Where feasible, reclaimed water shall be utilized for new golf courses.

The following Ventura County General Plan (Land Use Chapter, 3.1.1 Goals) goal related to groundwater use would potentially influence implementation of the GSP:

- **Goal 1:** Ensure that the county can accommodate anticipated future growth and development while maintaining a safe and healthful environment by preserving valuable natural resources, guiding development away from hazardous areas, and planning for adequate public facilities and services. Promote planned, well-ordered and efficient land use and development patterns.

The following Ventura County General Plan (Public Facilities Chapter, Water Supply Facilities section 4.3.1 Goals and 4.3.2 Policies) goals and policies related to groundwater use would potentially influence implementation of the GSP:

- **Goal 1:** Ensure the provision of water in quantities sufficient to satisfy current and projected demand.
- **Goal 2:** Encourage the employment of water conservation measures in new and existing development.
- Encourage the continued cooperation among water suppliers in the county in meeting the water needs of the county as a whole.
- **Policy 1:** Development that requires potable water shall be provided a permanent potable water supply of adequate quantity and quality that complies with applicable County and State water regulations. Water systems operated by or receiving water from Casitas Municipal Water District, the Calleguas Municipal Water District or the United Water Conservation District will be considered permanent supplies unless an Urban Water Management Plan (prepared pursuant to Part 2.6 of Division 6 of the Water Code) or a water supply and demand assessment (prepared pursuant to Part 2.10 of Division 6 of the Water Code) demonstrates that there is insufficient water supply to serve cumulative development in the district's service area. When the proposed water supply is to be drawn exclusively from wells in areas where groundwater supplies have been determined by the Environmental Health Division or the Public Works Agency to be questionable or inadequate, the developer shall be required to demonstrate the availability of a permanent potable water supply for the life of the project.
- **Policy 2:** Discretionary development as defined in section 10912 of the Water Code shall comply with the water supply and demand assessment requirements of Part 2.10 of Division 6 of the Water Code.
- **Policy 3:** Discretionary development shall be conditioned to incorporate water conservation techniques and the use of drought resistant native plants pursuant to the County's Guide to Landscape Plans.

Ventura County Plan's Influence on Water Demand and Groundwater Sustainability Plan's Goals

Review of relevant Ventura County General Plan goals and policies reveals that the County's goals and policies relative to future land use development and conservation complement the use and conservation of groundwater resources goals included in the CBGSA GSP. The General Plan explicitly states as a goal ensuring that adequate quality and quantity of groundwater will be available for present and future county residents, as well as accommodating anticipated future growth and development while maintaining a safe and healthful environment by preserving valuable natural resources, including groundwater. Due to the complementary nature of the General Plan and the GSP, it is anticipated that implementation of the GSP will be consistent with the General Plan.

The county is expected to grow from 865,090 to 969,271 residents between 2018 and 2040 (Caltrans, 2015). These growth estimates are County-wide and the General Plan does not specify how much growth, if any, is expected to occur within the Basin. Ensuring sustainable management of the basin through

implementation of the GSP will be critical in terms of supporting projected population growth in the county while maintaining sustainable groundwater levels in the Basin.

Groundwater Sustainability Plan's Influence on Ventura County General Plan's Goals and Policies

Successful implementation of the GSP will help to ensure that the Cuyama Basin's groundwater supply is managed in a sustainable manner. Given the amount of population growth projected in the county in the coming years, it is possible that changes in groundwater management by the GSP will result in changes to the pace, location and type of development that will occur in the county in the future. It is anticipated that GSP implementation will reinforce the General Plan's goals related to sustainable land use development in the county.

1.8 Plan Elements from CWC Section 10727.4

- To be filled in near end of GSP development. Will be used to address any component in the list below that was not addressed elsewhere in the GSP. If addressed in the GSP, a reference to where it's addressed will be provided.
    - (a) Control of saline water intrusion.
    - (b) Wellhead protection areas and recharge areas.
    - (c) Migration of contaminated groundwater.
    - (d) A well abandonment and well destruction program.
    - (e) Replenishment of groundwater extractions.
    - (f) Activities implementing, opportunities for, and removing impediments to, conjunctive use or underground storage.
    - (g) Well construction policies.
    - (h) Measures addressing groundwater contamination cleanup, groundwater recharge, in-lieu use, diversions to storage, conservation, water recycling, conveyance, and extraction projects.
    - (i) Efficient water management practices, as defined in Section 10902, for the delivery of water and water conservation methods to improve the efficiency of water use.
    - (j) Efforts to develop relationships with state and federal regulatory agencies.
    - (k) Processes to review land use plans and efforts to coordinate with land use planning agencies to assess activities that potentially create risks to groundwater quality or quantity.
    - (l) Impacts on groundwater dependent ecosystems.

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COMMITMENT & INTEGRITY DRIVE

TO: Board of Directors
Agenda Item No. 9d

FROM: Jim Beck, Executive Director

DATE: May 2, 2018

SUBJECT: Data Management Approach

Issue
Update on the Data Management Approach.

Recommended Motion
None – information only.

Discussion
Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan (GSP) consultant Woodard & Curran's summary of its approach to data management is provided as Attachment 1.

Cuyama Basin Groundwater Sustainability Agency

Data Management Approach

April 26, 2018

WOODARD &CURRAN

Data Management Criteria Go Beyond SGMA Requirements

- Flexible and open one-stop-shop
- Transparent and efficient data entry and visualization
- Coordination and sharing
- Automated reporting

CURRENT PHASE

- Sustainable groundwater management monitoring
- Ability to track undesirable results

FUTURE PHASES

WOODARD &CURRAN

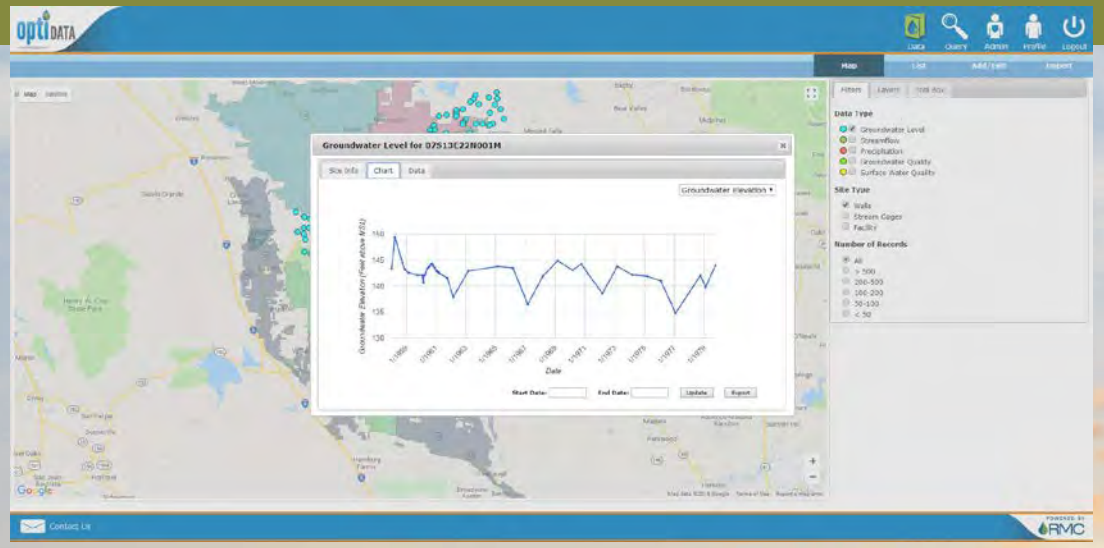
Data Management System Options to Meet SGMA Requirements

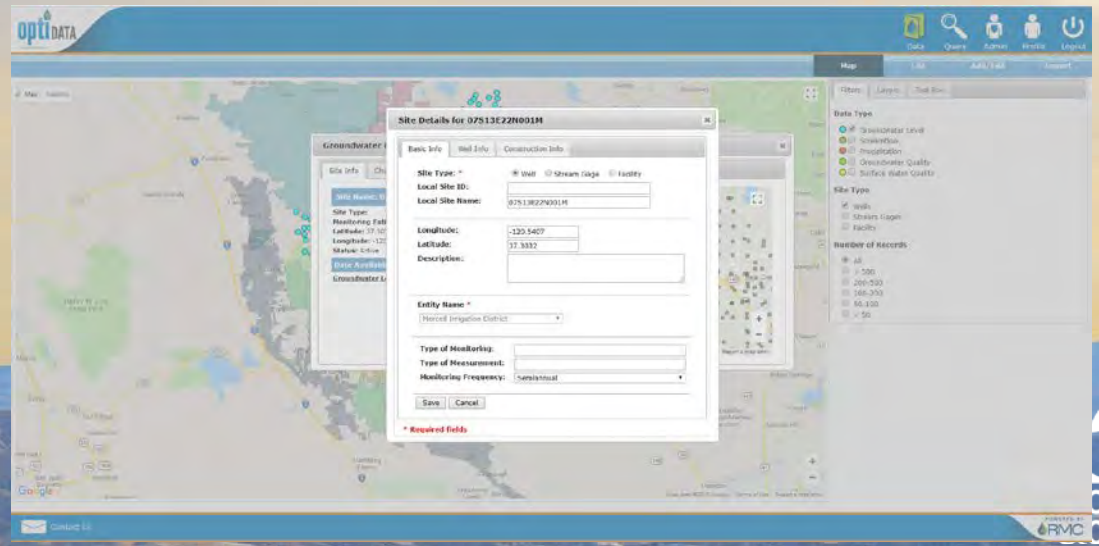
We've evaluated numerous DMS options:

DMS Option	Comments
Excel/Sharepoint/Geodatabase Combination	• Does not meet any success criteria • Software costs would be minimal, but labor costs will be high to maintain/report data
Off-the-Shelf Applications WISKI, HYDRSTRA, HydroDMS, Opti, RockWorks, w/no customization	• Will not meet all success criteria • User processes would need to be modified and labor costs could be higher to maintain/report data
Customized Off-the-Shelf Applications WISKI, HYDRSTRA, HydroDMS, Opti, RockWorks,	• Can be customized to meet success criteria depending on features of base software package
Custom Developed Application	• Can be developed to meet all success criteria • Budget and timeline required would be beyond grant parameters

Opti is a Ready-to-Use Proven Tool

- Numerous IRWM groups have used Opti
- Several GSAs are now implementing Opti
- Customized DMS to meet the specific needs of the Cuyama Basin
- Meets all identified Key Success Criteria
- Open platform enables future enhancements





TO: Board of Directors
Agenda Item No. 9e

FROM: Jim Beck, Executive Director

DATE: May 2, 2018

SUBJECT: Stakeholder Engagement Update

Issue
Update on the Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan stakeholder engagement.

Recommended Motion
None – information only.

Discussion
Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan (GSP) outreach consultant the Catalyst Group's stakeholder engagement update is provided as Attachment 1.

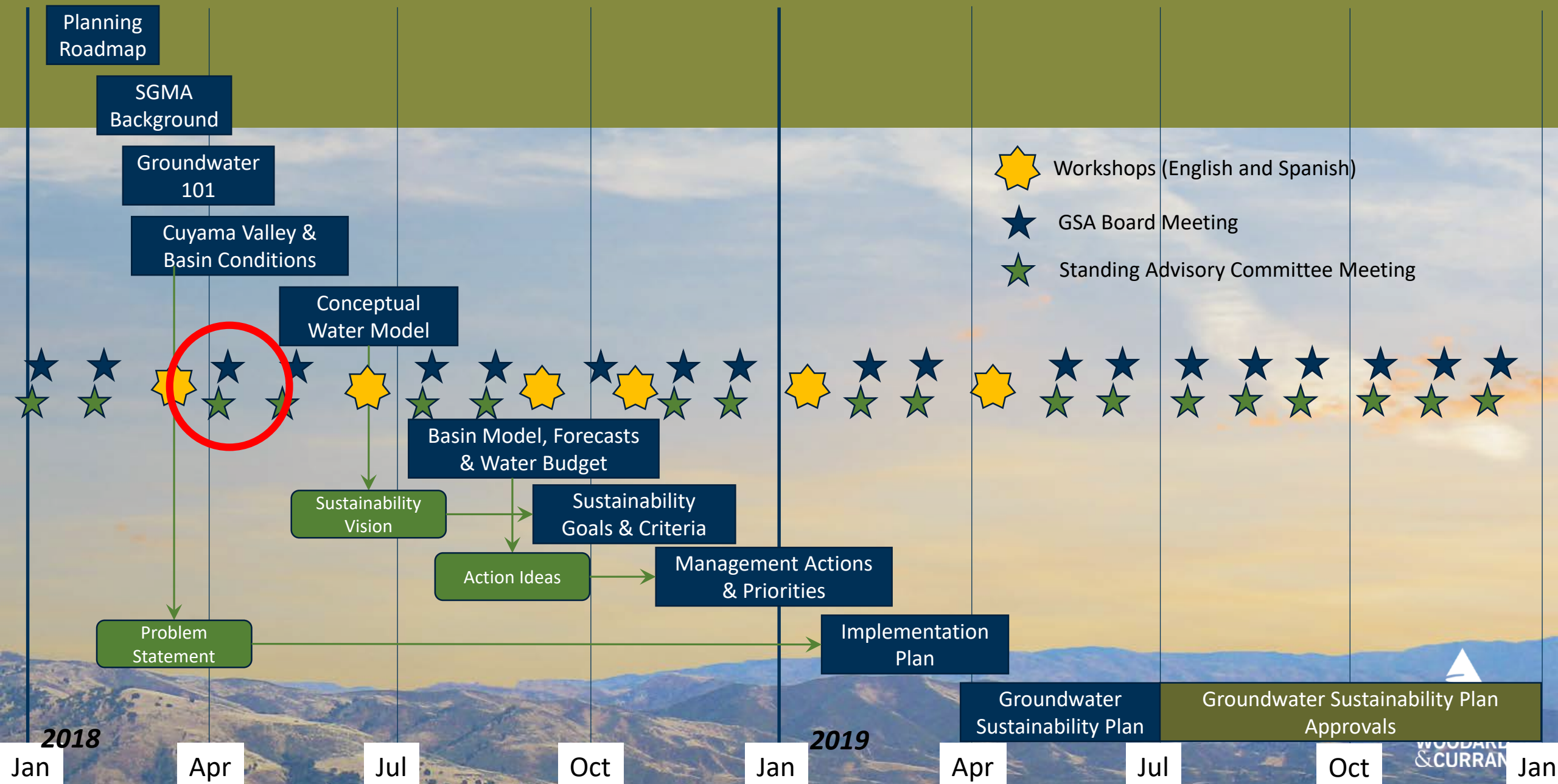
Cuyama Basin Groundwater Sustainability Agency

Groundwater Sustainability Plan Stakeholder Engagement Update

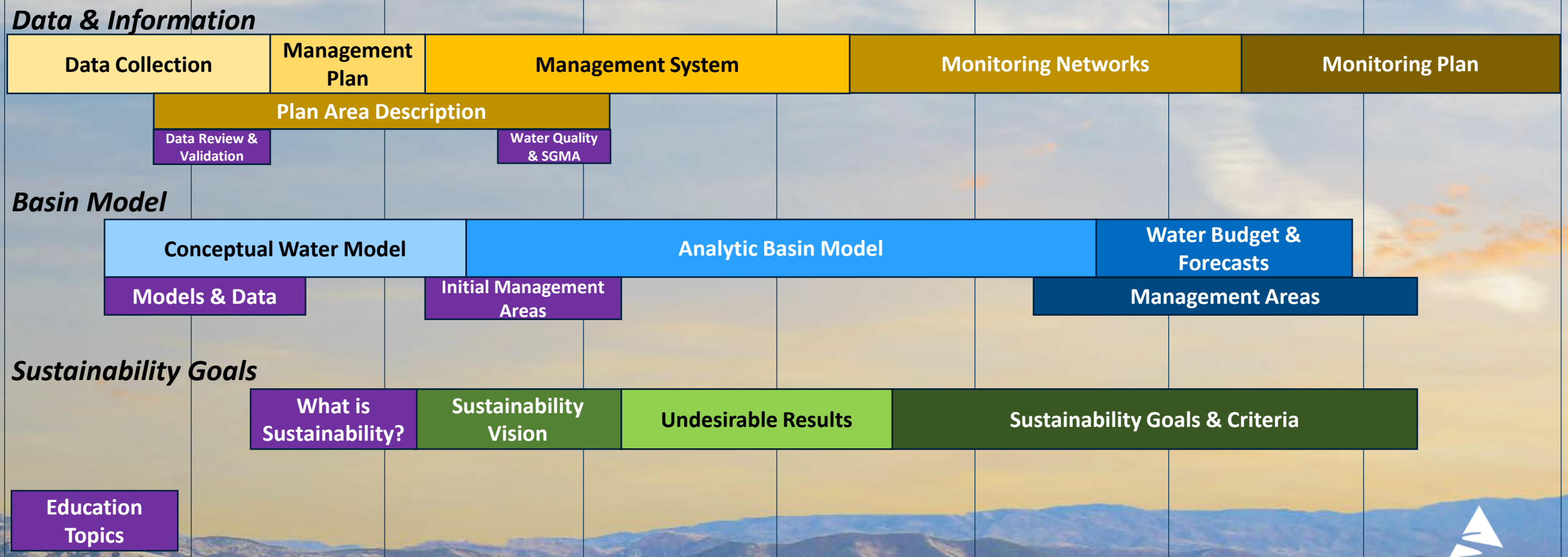
April 26, 2018

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Plan – Planning Roadmap



Cuyama Basin Groundwater Sustainability Plan – Discussion Topics



Outreach Activities

- CBGSA Newsletter – Issued May 1
- June 6 Workshops set – English at 6:30 pm at the Cuyama Recreation District facility and Spanish at 6:30 pm at Cuyama Family Resources Center
- Stakeholder Outreach – Contact with community members who only provided telephone contact information
- Next Steps
  - Prepare for June 6 workshop
  - Continue planning educational topics for SAC meetings

WOODARD &CURRAN

TO: Board of Directors
Agenda Item No. 11a

FROM: Jim Beck, Executive Director

DATE: May 2, 2018

SUBJECT: Financial Management Overview

Issue
Overview of the financial management for Cuyama Basin Groundwater Sustainability Agency activities.

Recommended Motion
None – information only.

Discussion
A presentation on the financial management for Cuyama Basin Groundwater Sustainability Agency activities is provided as Attachment 1.

Cuyama Basin Groundwater Sustainability Agency

Financial Report

May 2, 2018

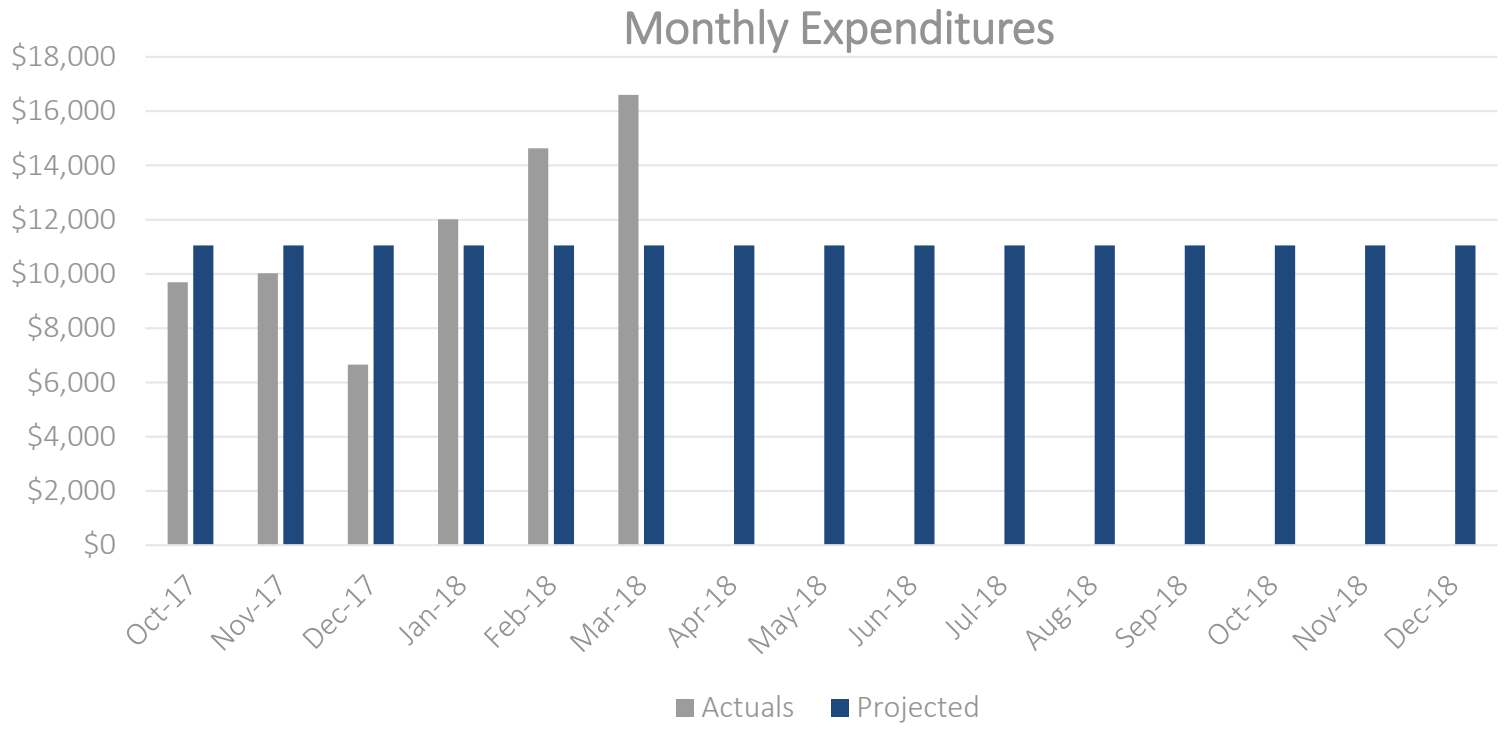
CBGSA OUTSTANDING INVOICES

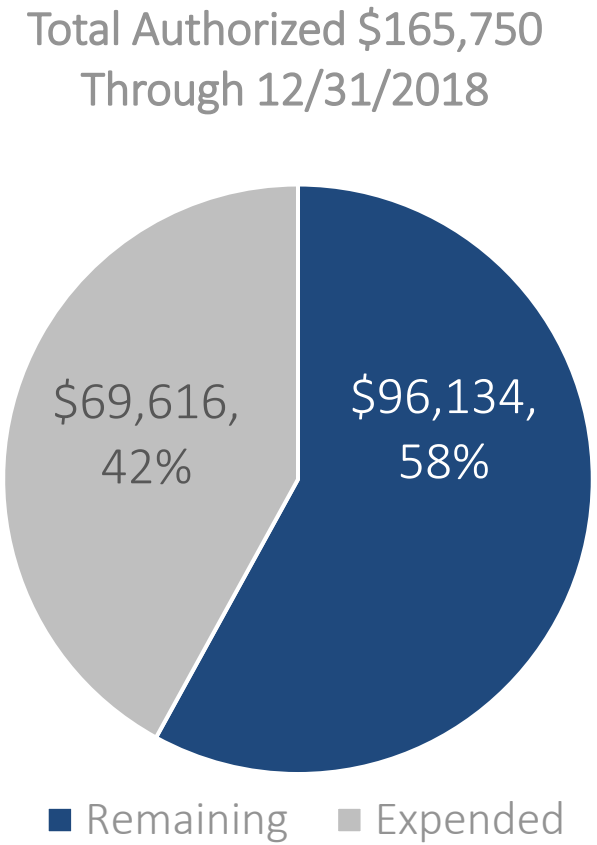
Task	Invoiced Through	Cumulative Total
Grant Development	12/20/2017	$39,151.25
Legal Counsel	3/30/2018	$26,568.84
Executive Director	3/30/2018	$128,953.15
Insurance *	4/01/2019	$11,490.00
GSP Development	3/30/2018	$421,591.56
TOTAL		**$627,754.80**

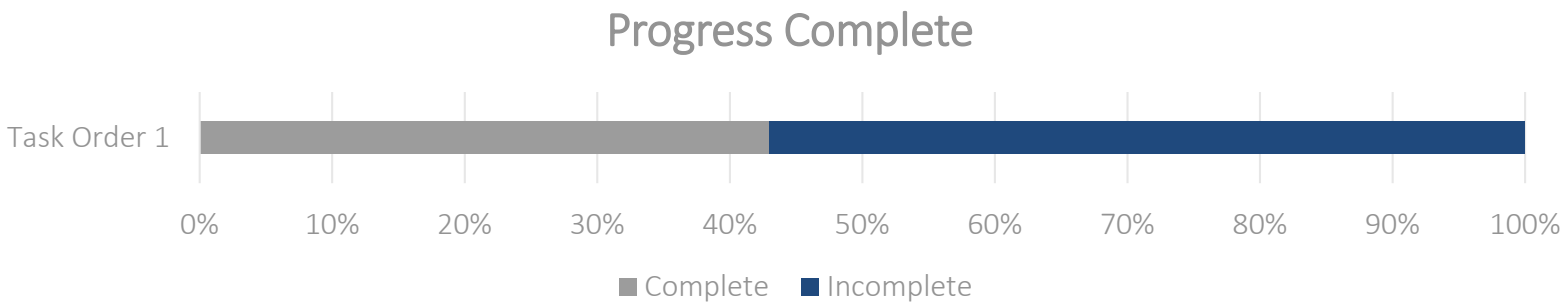
**Future Reimbursement Required Payment by Hallmark Group $2,451.00*

HALLMARK GROUP Capital Program Management

Executive Director Task Order 1

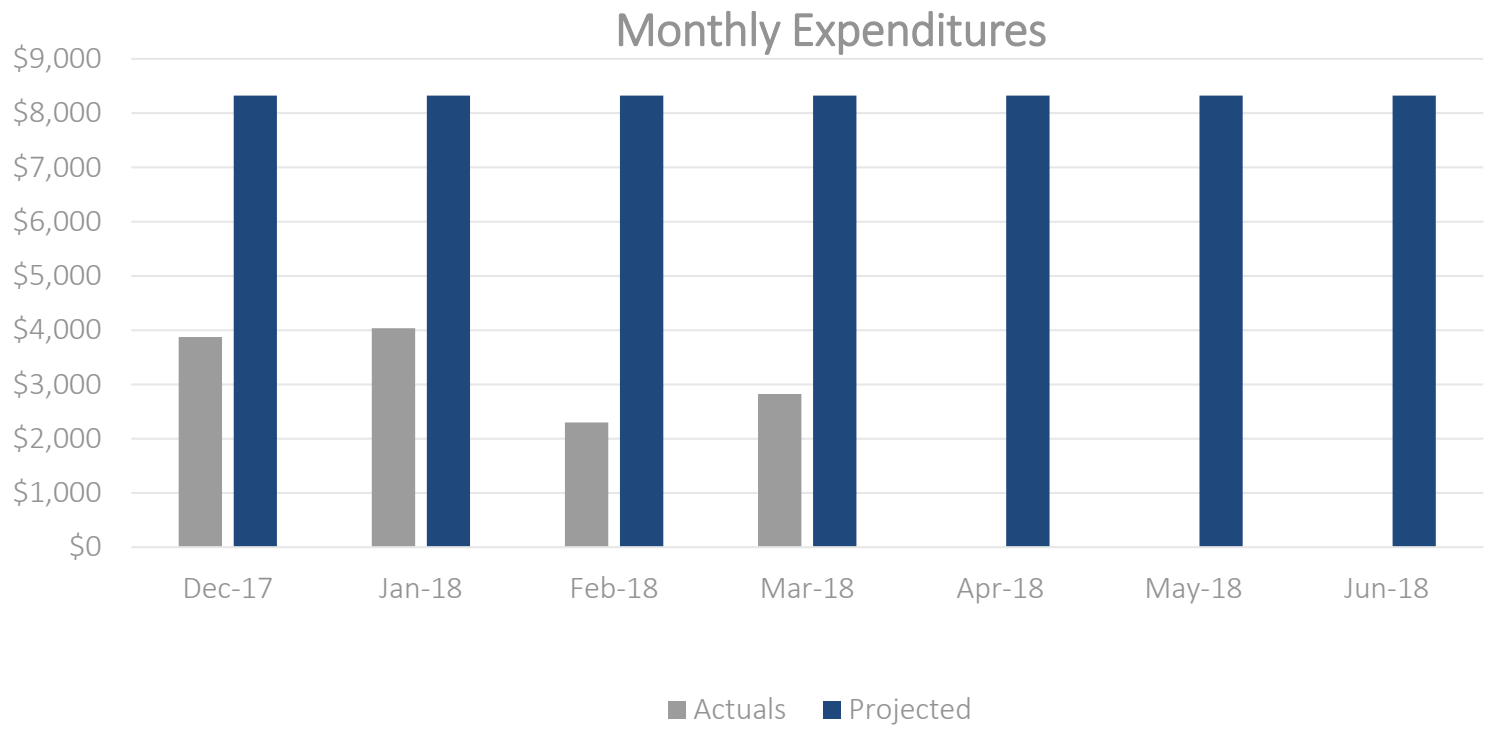


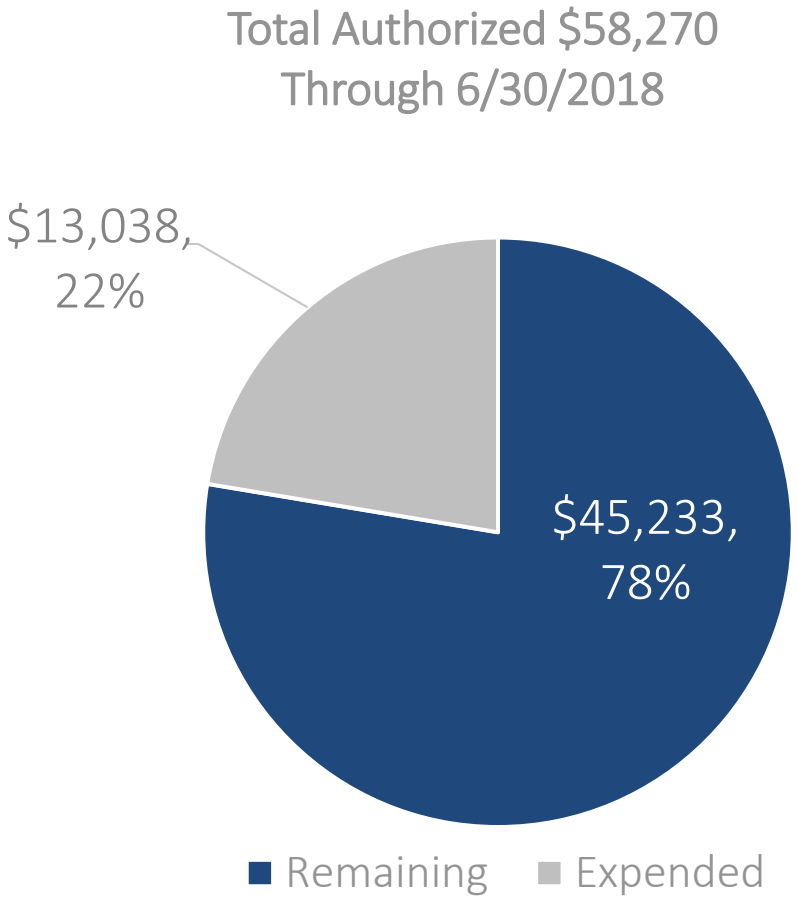


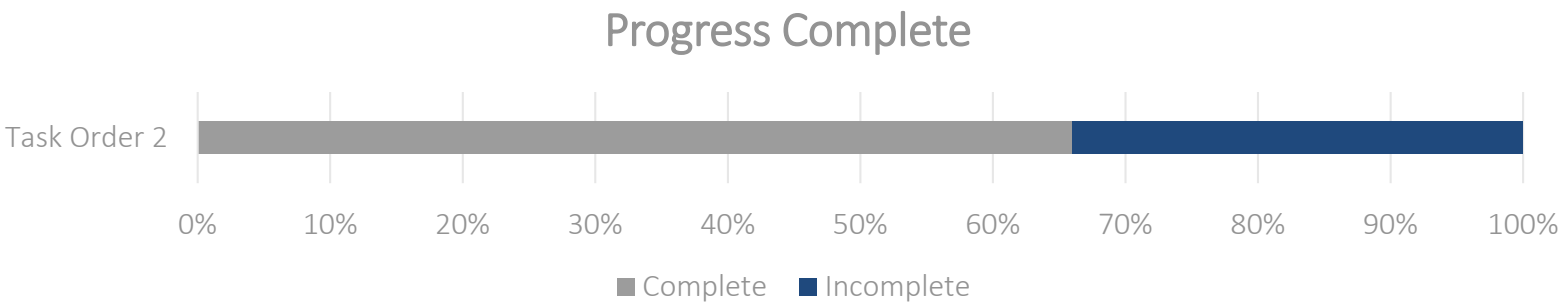


HALLMARK GROUP Capital Program Management

Executive Director Task Order 2

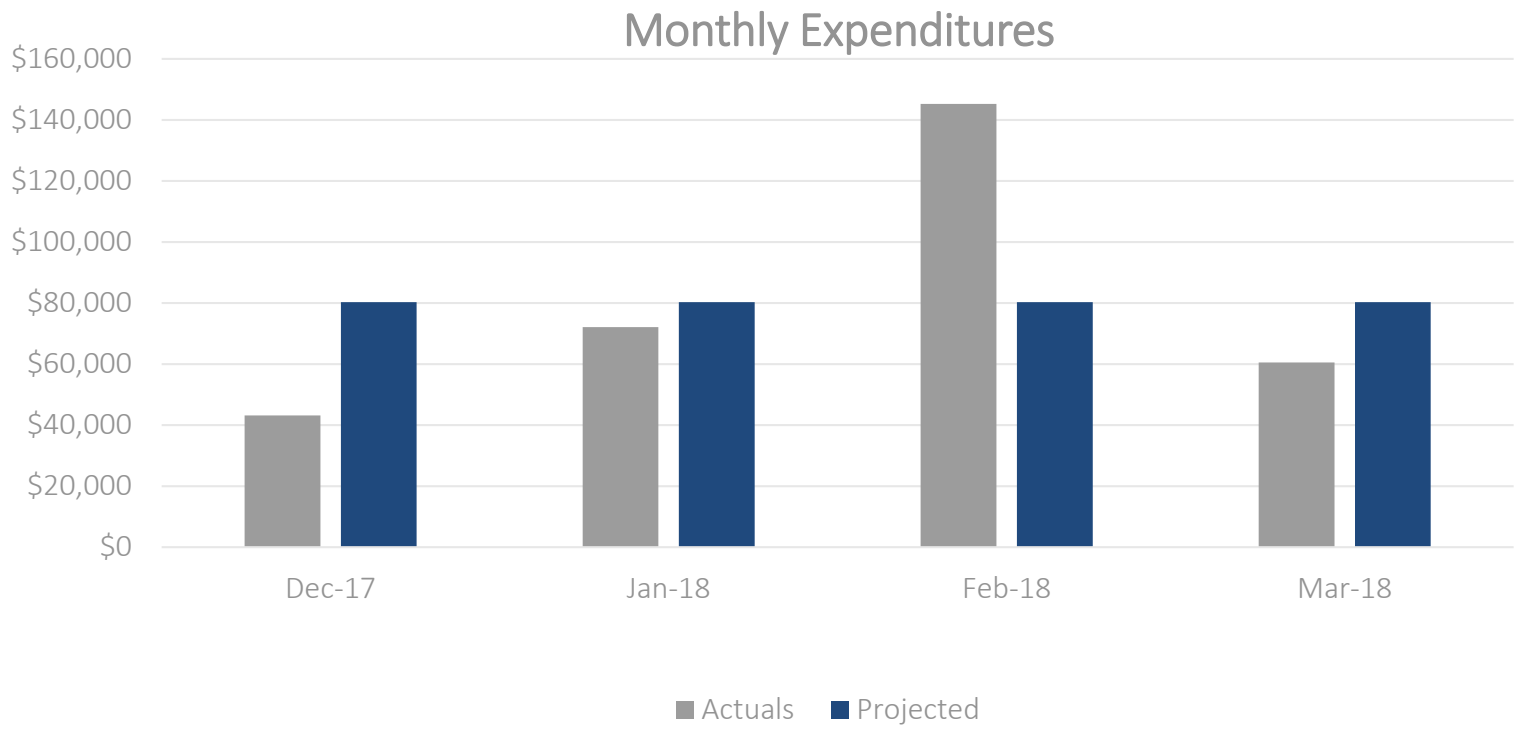


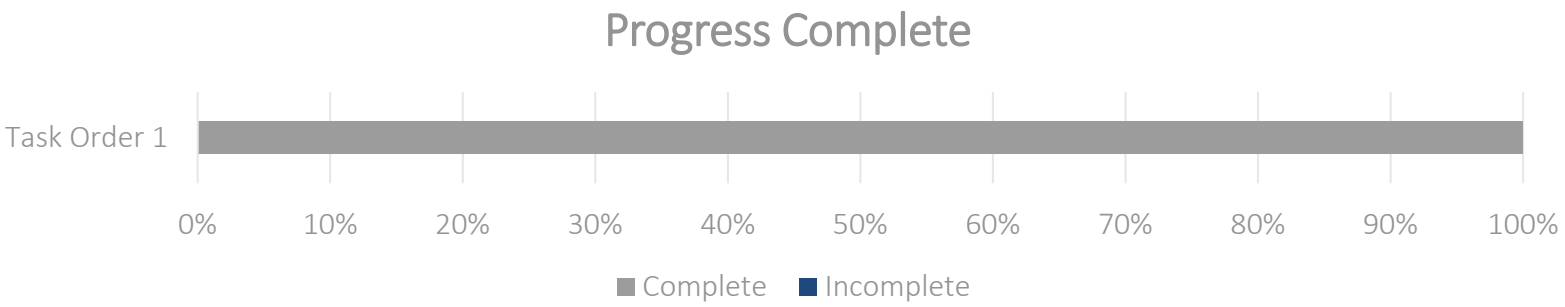


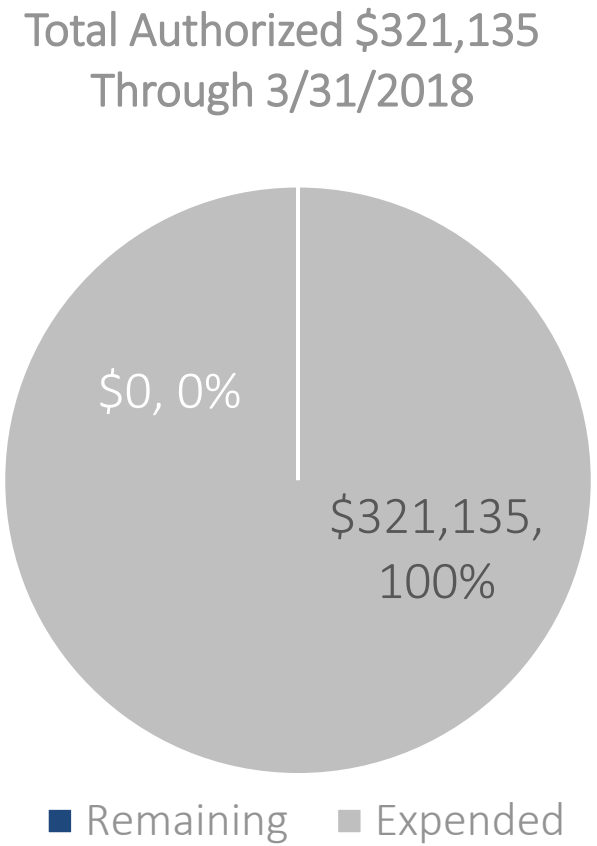


HALLMARK GROUP Capital Program Management

GSP Development Task Order 1

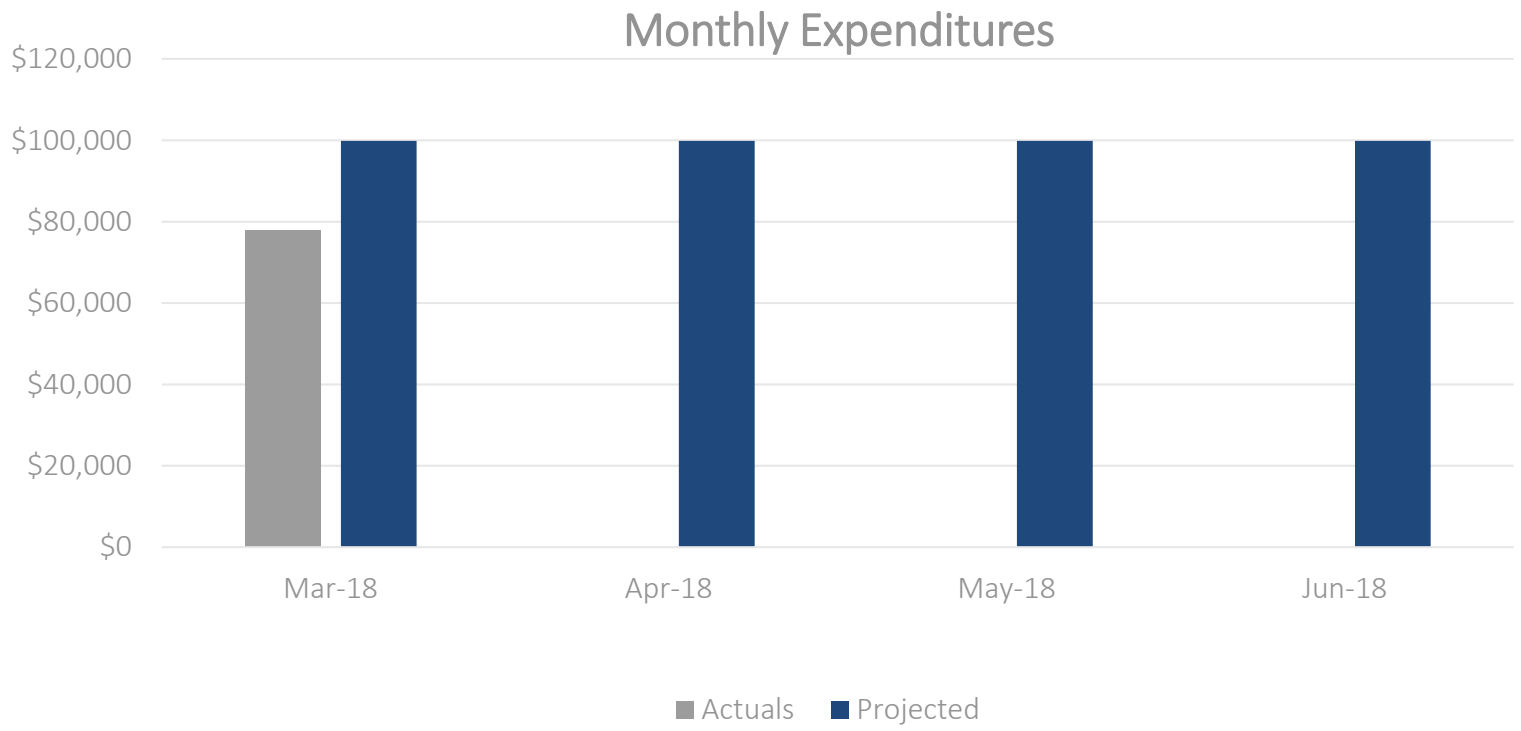


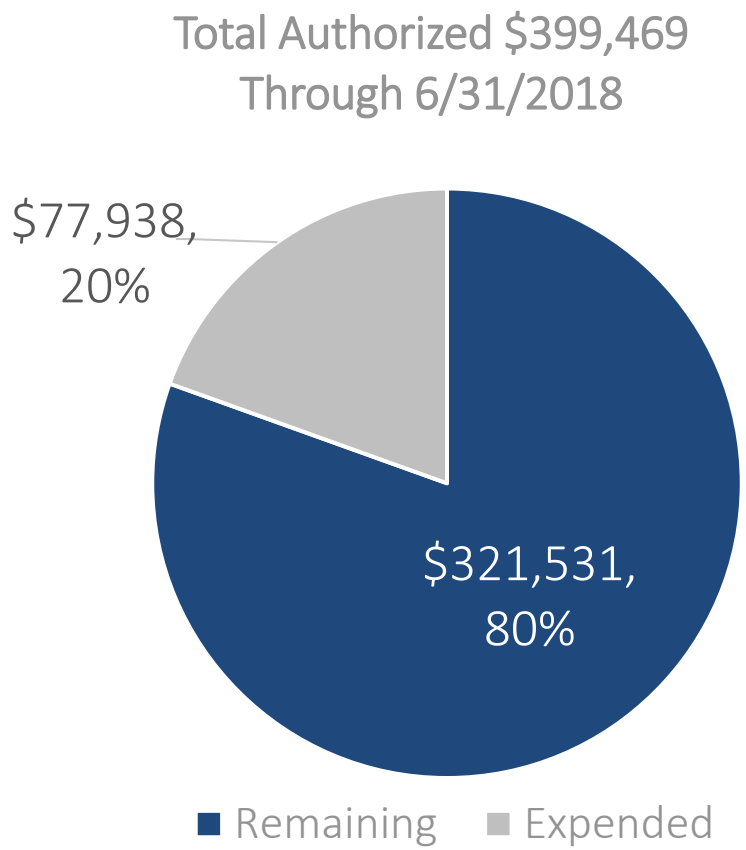


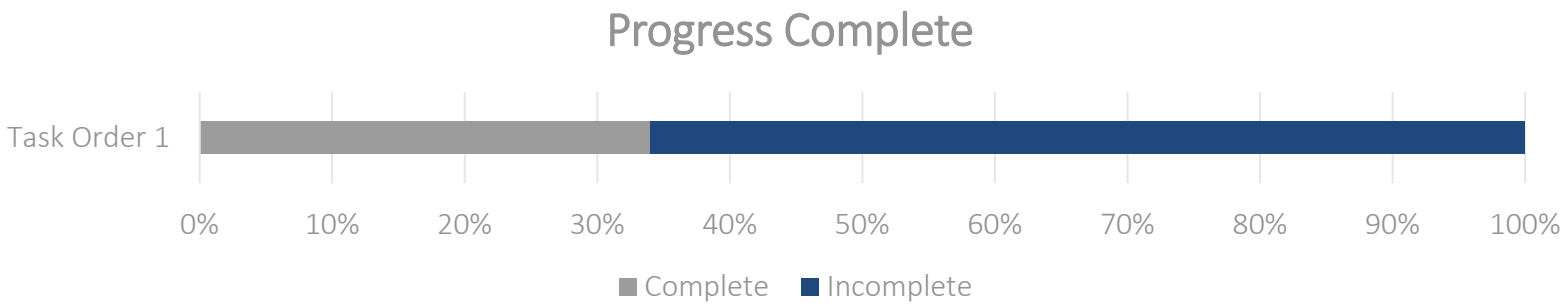


HALLMARK GROUP Capital Program Management

GSP Development Task Order 2

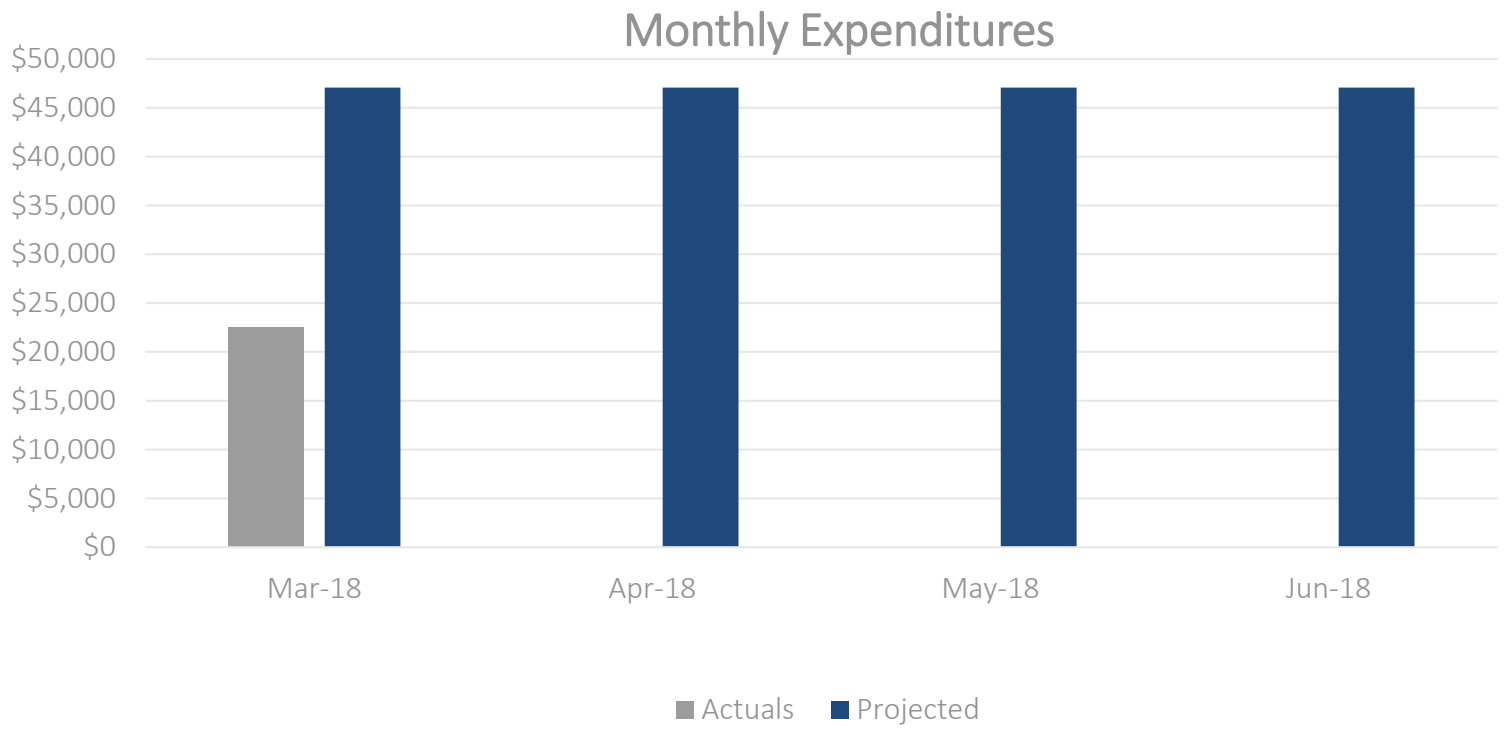


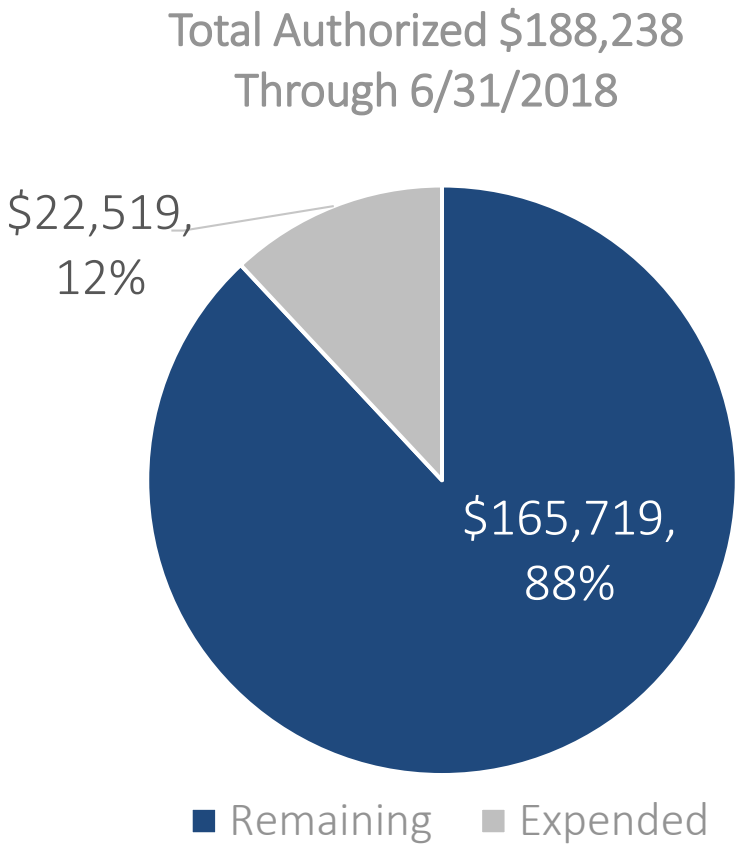


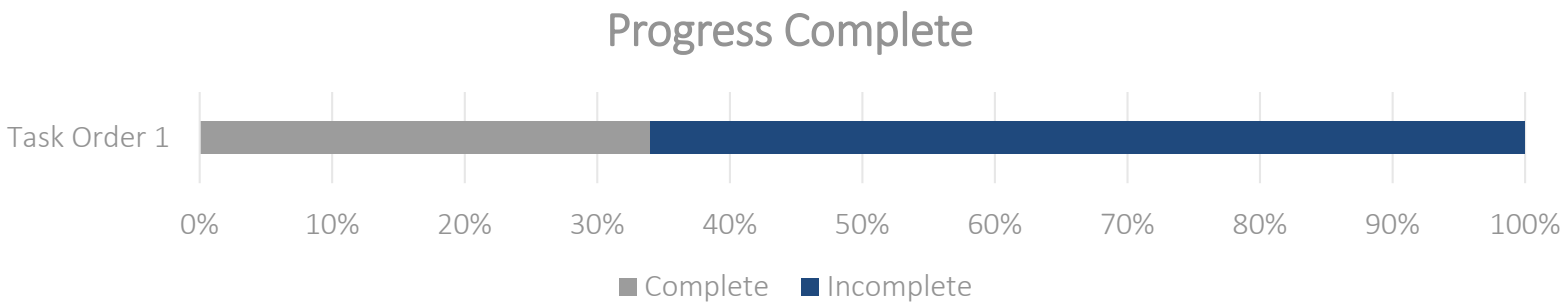


HALLMARK GROUP Capital Program Management

GSP Development Task Order 3







HALLMARK GROUP Capital Program Management

TO: Board of Directors
Agenda Item No. 11b

FROM: Jim Beck, Executive Director

DATE: May 2, 2018

SUBJECT: Fiscal Year 2018/19 Budget

Issue
Update on the Fiscal Year 2018/19 budget development.

Recommended Motion
None – Information Only.

Discussion
On March 23, 2018, the Cuyama Basin Groundwater Sustainability Agency Board of Directors Budget Ad hoc met to review the draft Fiscal Year 2018-19 budget (Budget). The draft Budget was revised on April 19, 2018, distributed to the Budget ad hoc, and is provided as Attachment 1 for consideration of adoption.

Cuyama Basin Groundwater Sustainability Agency
Draft Annual Budget Fiscal Year 2018/2019

ADMINISTRATION & OPERATION	Estimated FY 18/19
Staff/ Administration of GSA	
Executive Director - Executed Task Order 1 (New No. 4)	
GSA Board of Directors Meetings	$52,200.00
Consultant Management and GSP Development	$43,800.00
Financial Information Coordination	$10,200.00
Cuyama Basin GSA Outreach	$26,400.00
Subtotal	**$132,600.00**
Executive Director - Proposed Task Order 2 (New No. 3)	
Budget Development & Admin	$6,700.00
Financial Management	$42,300.00
Outreach Facilitation	$9,200.00
Travel and Direct Costs	$5,640.00
Subtotal	**$63,840.00**
Legal Counsel	
Legal Counsel	$42,000.00
Subtotal	**$42,000.00**
Public Process/ Meetings	
Website Updates	$0.00
Subtotal	**$0.00**
Grant Proposals	
Grant Proposals	$0.00
Subtotal	**$0.00**
Administrative Overhead	
Insurance	$12,108.00
Travel/ Conferences/ Training	$5,000.00
Other	$2,000.00
Subtotal	**$19,108.00**
Contingency	
Contingency	$20,000.00
Subtotal	**$20,000.00**

Subtotal of Administration & Operation Budget	***$277,548.00***

Cuyama Basin Groundwater Sustainability Agency
Draft Annual Budget Fiscal Year 2018/2019

TECHNICAL	
Project Management for Technical Activities	
GSP Consultant	
Category 1 Tasks	$486,093.00
Category 2 Tasks	$914,465.36
Subtotal	**$1,400,558.36**

GRANTS	
DWR Grants	
Category 1 Grant	
Category 2 Grant	
Subtotal	***$0.00***

Subtotal of Technical Budget	***$1,400,558.36***
Santa Barbara County Grant	***$0.00***

TOTAL ANNUAL BUDGET	**$1,678,106.36**

Draft Task Order No. 4

ESTIMATED MONTHLY LEVEL OF EFFORT (HOURS)

		Executive Director	Project Manager	Project Coordinator	Total Hours
Total Labor (Hours)		30	2	30	
Task 1	GSA Board of Directors Meetings	14	-	7	21
Task 2	Consultant Management and GSP Development	11	-	9	20
Task 3	Financial Information Coordination	1	-	6	7
Task 4	Secure Other Services (as needed)	-	-	-	-
Task 5	Cuyama Basin GSA Outreach (1 monthly email newsletter, distribution management, and basic website maintenance)	4	2	8	14
Task 6	Other Activities (as needed)	-	-	-	-

ESTIMATED MONTHLY COSTS (DOLLARS)

		Executive Director	Project Manager	Project Coordinator	Total Cost
	Rate / Hour	$250	$150	$100	
Total Labor Costs ($)		$7,500	$300	$3,000	$10,800
Task 1	GSA Board of Directors Meetings	$3,500	-	$700	$4,200
Task 2	Consultant Management and GSP Development	$2,750	-	$900	$3,650
Task 3	Financial Information Coordination	$250	-	$600	$850
Task 4	Secure Other Services (as needed)	-	-	-	$0
Task 5	Cuyama Basin GSA Outreach (1 monthly email newsletter, distribution management, and basic website maintenance)	$1,000	$300	$800	$2,100
Task 6	Other Activities (as needed)	-	-	-	-
Total Travel					$150
Mileage [miles/ $0.535]					$150
Hotel [nights / rooms / $90 /Approx. 15% tax]					-
Per Diem [days / Persons / $46]					-
Total Other Direct Costs					$100
Website Domain / Interface / Mail Management < 2,500 Contacts					$100
Printing / Reprographics					-
Conference Line [Approx. $500/ mo based on usage]					-
Total Monthly Fee Proposal					$11,050
Annual Fee Proposal					$132,600

Draft Task Order No. 3

ESTIMATED ANNUAL LEVEL OF EFFORT (HOURS)

	Classification	Executive Director	Project Controls Manager	Project Coordinator	Total Hours
Total Labor (Hours)		74	100	197	371
Task 1	Budget Development & Administration	16	2	23	41
Task 1.1	Develop Monthly Budget , Including Scope, Schedule and Cost	7	1	8	16
Task 1.2	Ad Hoc Committee Meeting Coordination	9	1	15	25
Task 2	Financial Management	34	98	142	274
Task 2.1	Initial Coordination & Financial Mgmt Setup for CBGSA Mgt.	0	0	0	0
Task 2.2	Monthly Invoicing / Accounts Receivable / Collections	4	6	24	34
Task 2.3	Monthly Accounts Payable	4	6	24	34
Task 2.4	Monthly Record Keeping	4	6	48	58
Task 2.5	Annual Coordination with Outside Auditor	2	4	2	8
Task 2.6	Monthly Coordination w Grant Invoicing	4	36	4	44
Task 2.7	Grant Administration (anticipated quarterly)	4	36	8	48
Task 2.8	Grant Reports to DWR	12	4	32	48
Task 3	Outreach Facilitation	24	0	32	56
Task 3.1	Develop Stakeholder Outreach Process	0	0	0	0
Task 3.2	Workshop and Ad Hoc Committee Meeting Coordination	24	0	32	56

ESTIMATED ANNUAL COSTS (DOLLARS)

	Classification	Executive Director	Project Controls Manager	Project Coordinator	Total Cost
	Rate / Hour	$250	$200	$100	
Total Labor		$18,500	$20,000	$19,700	$58,200
Task 1	**Budget Development & Admin**	$4,000	$400	$2,300	$6,700
Task 1.1	Develop Monthly Budget , Including Scope, Schedule and Cost	$1,750	$200	$800	$2,750
Task 1.2	Ad Hoc Committee Meeting Coordination	$2,250	$200	$1,500	$3,950
Task 2	**Financial Management**	$8,500	$19,600	$14,200	$42,300
Task 2.1	Initial Coordination & Financial Mgmt Setup for CBGSA Mgt.	$0	$0	$0	$0
Task 2.2	Monthly Invoicing / Accounts Receivable / Collections	$1,000	$1,200	$2,400	$4,600
Task 2.3	Monthly Accounts Payable	$1,000	$1,200	$2,400	$4,600
Task 2.4	Monthly Record Keeping	$1,000	$1,200	$4,800	$7,000
Task 2.5	Annual Coordination with Outside Auditor	$500	$800	$200	$1,500
Task 2.6	Monthly Coordination w Grant Invoicing	$1,000	$7,200	$400	$8,600
Task 2.7	Grant Administration (anticipated quarterly)	$1,000	$7,200	$800	$9,000
Task 2.8	Grant Reports to DWR	$3,000	$800	$3,200	$7,000
Task 3	**Outreach Facilitation**	$6,000	$0	$3,200	$9,200
Task 3.1	Develop Stakeholder Outreach Process	$0	$0	$0	$0
Task 3.2	Ad Hoc Committee Meeting Coordination	$6,000	$0	$3,200	$9,200
Total Travel					$1,440
Mileage [miles/ $0.54]					$1,440
Hotel [nights / rooms / $90 /Approx. 15% tax]					$0
Per Diem [days / Persons / $46]					$0
Total Other Direct Costs					$4,200
Printing / Reprographics					$2,400
Conference Line [Approx. $150/ mo based on usage]					$1,800
Monthly Fee Proposal					$5,320
Total Fee Proposal					$63,840

TO: Board of Directors
Agenda Item No. 11c

FROM: Jim Beck, Executive Director

DATE: May 2, 2018

SUBJECT: Payment of Bills

Issue
Consider approving the payment of bills for March 2018.

Recommended Motion
Approve payment of the bills through the month of March 2018 in the amount of $182,809.03.

Discussion
Consultant invoices for the month of March 2018 are provided as Attachment 1.

KLEIN, DENATALE, GOLDNER
COOPER, ROSENLIEB & KIMBALL, LLP

4550 CALIFORNIA AVENUE
SECOND FLOOR
BAKERSFIELD, CA 93309

MAILING ADDRESS:
P.O. BOX 11172
BAKERSFIELD, CA 93389-1172
(661) 395-1000
FAX (661) 326-0418
E-MAIL accounting@kleinlaw.com

CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY
C/O HALLMARK GROUP
1901 ROYAL OAKS DRIVE, SUITE 200
SACRAMENTO, CA 95815

March 30, 2018
Bill No. 22930-001-129640
JDH

Statement for Period through March 20, 2018

Re: 22930 - CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY
001 GENERAL BUSINESS

Date		Services	Hours	Amount
02/23/18	JDH	WEEKLY PROJECT MANAGEMENT TEAM CONFERENCE CALL; E-MAILED T. BLAKSLEE REGARDING BROWN ACT ISSUE; REVIEWED AND REVISED DRAFT AGENDA WITH EMAIL TO PMT.	2.30	621.00
03/06/18	JDH	TELEPHONE CONFERENCE WITH J. BECK REGARDING VARIOUS PENDING MATTERS.	0.70	189.00
03/06/18	JDH	TELEPHONE CONFERENCE WITH C. MARTIN REGARDING FUNDING AGREEMENT; E-MAILED P. CHOUNET REGARDING SAME.	0.30	81.00
03/07/18	JDH	ATTENDED MARCH JOINT MEETING OF BOARD AND SAC.	4.50	1,215.00
03/16/18	JDH	WEEKLY PROJECT MANAGEMENT TEAM CONFERENCE CALL.	1.00	270.00

		Rate	Hours	Amount
JDH	HUGHES, JOSEPH	270.00	8.80	2,376.00
Total Fees				**$2,376.00**

Current Charges	**$2,376.00**
Prior Statement Balance	24,192.84
Payments/Adjustments Since Last Bill	-0.00
Pay This Amount	**$26,568.84**

PAYMENT DUE UPON RECEIPT
PLEASE REFER TO BILL NUMBER LOCATED BENEATH STATEMENT DATE WHEN SUBMITTING PAYMENT
TO ENSURE PROPER CREDIT.
A FINANCE CHARGE OF 1 1/2% PER MONTH (18% ANNUALLY) WILL BE CHARGED ON ALL BALANCES OVER 30 DAYS.
FEDERAL I.D. NO. 95-2298220

KLEIN, DENATALE, GOLDNER, COOPER, ROSENLIEB & KIMBALL, LLP

Any Payments Received After March 30, 2018 Will Appear on Your Next Statement

HALLMARK GROUP Capital Program Management

INVOICE

1901 Royal Oaks Drive
Suite 200
Sacramento, CA 95815

916 923.1500
hgcpm.com

To: Matt Young
Cuyama Basin Groundwater Sustainability Agency
Santa Barbara County Water Agency
130 E. Victoria Street, Suite 200
Santa Barbara, CA 93105

Please Remit To: **Hallmark Group**
1901 Royal Oaks Drive, Suite 200
Sacramento, CA 95815
P: (916) 923-1500

Invoice No.: 2018-CBWD-TO1-03A
Task Order: HG-001
Date: April 27, 2018

For professional services rendered for the month of March 2018

Task Order	Sub task	Task Description	Billing Category	Month Ending	Hours	Rate	Amount
HG-001	1	GSA Board of Directors and Advisory Committee Meetings	Executive Director	3/31/2018	20.75	$ 250.00	$ 5,187.50
			Project Coordinator	3/31/2018	93.00	$ 100.00	$ 9,300.00
						Total Task 1 Labor	**$ 14,487.50**
HG-001	2	Consultant Management and GSP Development	Executive Director	3/31/2018	4.50	$ 250.00	$ 1,125.00
			Project Coordinator	3/31/2018	1.25	$ 100.00	$ 125.00
						Total Task 2 Labor	**$ 1,250.00**
HG-001	3	Financial Information Coordination	Executive Director	3/31/2018	0.50	$ 250.00	$ 125.00
			Project Coordinator	3/31/2018	1.50	$ 100.00	$ 150.00
						Total Task 3 Labor	**$ 275.00**
HG-001	4	CBGSA Outreach	Executive Director	3/31/2018	1.00	$ 250.00	$ 250.00
			Project Coordinator	3/31/2018	0.00	$ 100.00	$ -
						Total Task 4 Labor	**$ 250.00**
						Total Labor	**$ 16,262.50**
		Travel	3/1/2018				$ 66.34
						SubTotal Travel	**$ 66.34**
		Other Direct Costs	Conference Calls - March 2018				$ 257.93
							$ -
			ODC Mark Up			5%	$ 12.90
						SubTotal Other Direct Costs	**$ 270.83**
						Total Travel & Other Direct Costs	**$ 337.17**
						TOTAL AMOUNT DUE FOR THIS INVOICE	**$ 16,599.67**

HALLMARK GROUP Capital Program Management

INVOICE

1901 Royal Oaks Drive
Suite 200
Sacramento, CA 95815

916 923.1500
hgcpm.com

To: Matt Young
Cuyama Basin Groundwater Sustainability Agency
Santa Barbara County Water Agency
130 E. Victoria Street, Suite 200
Santa Barbara, CA 93105

Please Remit To: **Hallmark Group**
1901 Royal Oaks Drive, Suite 200
Sacramento, CA 95815
P: (916) 923-1500

Invoice No.: 2018-CBWD-TO1-03A
Task Order: HG-001
Date: April 27, 2018

For professional services rendered for the month of March 2018

HG-001	Original Totals	Amendment(s)	Total Committed	Previously Billed	Current Billing	Remaining Balance
Task 1	$ 63,000.00	$ -	$ 63,000.00	$ 36,252.79	$ 14,487.50	$ 12,259.71
Task 2	$ 54,750.00	$ -	$ 54,750.00	$ 13,706.06	$ 1,250.00	$ 39,793.94
Task 3	$ 12,750.00	$ -	$ 12,750.00	$ 375.00	$ 275.00	$ 12,100.00
Task 4	$ 31,500.00	$ -	$ 31,500.00	$ 1,016.86	$ 250.00	$ 30,233.14
Travel & ODCs	$ 3,750.00	$ -	$ 3,750.00	$ 1,665.98	$ 337.17	$ 1,746.86
Insurance	$ -	$ 2,451.00	$ 2,451.00	$ 2,451.00	$ -	$ -
Total	$ 165,750.00	$ 2,451.00	$ 168,201.00	$ 55,467.70	$ 16,599.67	$ 96,133.64

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #1
Activities for the Month of March 2018:

J. Beck

Task 1: GSA Board of Directors and Advisory Committee Meetings

- Prepared for and attend monthly Cuyama Basin Groundwater Sustainability Agency (CBGSA) Standing Advisory Committee (SAC) and Board of Directors meetings.
- Assisted in the development of the SAC and Board agendas.
- Reviewed CBGSA BOD Meeting Agenda with D. Yurosek
- Assisted in the CBGSA logo development.

Task 2: Consultant Management and GSP Development

- Met with CBGSA Management Team on a weekly basis.
- Met with California Department of Water Resources staff member Anita Regmi for an assigned review of the CBGSA's Groundwater Sustainability Plan (GSP) process.

Task 3: Financial Information Coordination

- Discussed Kern County's share of CBGSA's costs County of Kern County Administrative Office manager Alan Christensen.

Task 4: CBGSA Outreach

- Discussed outreach strategy with GSP outreach consultant the Catalyst Group's Charles Gardiner and Mary Currie.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #1
Activities for the Month of March 2018:

K.Sherry

Task 1: GSA Board of Directors and Advisory Committee Meetings

- None

Task 2: Consultant Management and GSP Development

- None

Task 3: Financial Information Coordination

- Billing and Administration

Task 4: CBGSA Outreach

- None

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #1
Activities for the Month of March 2018:

T. Blakslee

Task 1: GSA Board of Directors and Advisory Committee Meetings

- Prepared Board documents for the Cuyama Basin Groundwater Sustainability Agency (CBGSA) Standing Advisory Committee (SAC) and Board of Directors meetings.
- Prepared SAC and Board minutes.
- Developed SAC and Board agendas.
- Prepared SAC, Board and public meeting packets.
- Attended/facilitated SAC and Board meetings.
- Communicated with SAC and Board members regarding various issues including Brown Act procedures, SAC participation, time management of meetings, agenda development and County of Kern participation issues.
- Coordinated development of the CBGSA logo between the design team and the SAC and Board.
- Updated stakeholder contact list.
- Facilitated the collection of Form 700s for the Board, SAC, alternates and team members.
- Reviewed the draft SAC guidelines and responsibilities.

Task 2: Consultant Management and GSP Development

- Coordinated weekly meetings with the technical Groundwater Sustainability Plan (GSP) consultants.
- Develop agendas and action logs for weekly consultant meetings.
- Coordinated a technical forum call between EKI and GSP consultant Woodard & Curran.
- Reviewed interactive Basin boundary map.

Task 3: Financial Information Coordination

- None

Task 4: CBGSA Outreach

- None

GAN CONFERENCING
Bringing the world together

Invoice Date: 4/1/2018
Total: $637.53
Statement# 34515 Customer# 3122729

HGCPM, Inc. - Formerly Advance Education
1901 Royal oaks DR
Sacramento, CA 95815 -0000

Remit to:
Great America Networks Conferencing
15700 W. 103rd St
Suite 110
Lemont, IL 60439 6608

CALL US
1-877-438-4261

Summary

Balance Information	
Previous Balance	667.83
Payments Received - Thank you!	(667.83)
Balance Forward	
New Charges	
New Usage Charges	538.45
Recurring Charges	0.00
Taxes and Surcharges	99.08
Total New Charges	637.53
Total Amount Due	637.53

Payments

Description	Date	Amount
Payment Received, Thank you!	3/21/18	(667.83)
Subtotal		($667.83)

Taxes and Surcharges

Federal Universal Service Fund	99.08
Subtotal	$99.08

Management Reports

Usage by Category

Description	Calls	Minutes	Charge
Usage - Conference Calling	187	10,769.00	538.45
	187.00	10,769.00	538.45

Long Distance By Line

TN	Calls	Mins	Charge
	187	10,769.00	538.45
	187	10,769.00	538.45

Most Expensive Calls (Toll Free)

From	To	Mins	Charge
6614773385		365.00	18.25
8053451961		326.00	16.30
9163237351		245.00	12.25
2025946062		244.00	12.20
5592441533		234.00	11.70
8057484033		167.00	8.35
6614773385		162.00	8.10
6614773385		162.00	8.10
9256274112		160.00	8.00
9166519589		157.00	7.85
		2,222.00	111.10

Toll-free Usage

Cuyama BDSAC Conference ID: 4298536

#	Date	Time	Other	Location	Mins	Amt
1	3/01/18	04:57P	8188826514	Participant	152.00	7.60
2	3/01/18	04:58P	6614773385	Host	162.00	8.10
3	3/01/18	04:59P	9256274112	Participant	151.00	7.55
4	3/01/18	05:00P	4155242290	Participant	142.00	7.10
5	3/01/18	05:00P	4157938420	Participant	67.00	3.35
6	3/01/18	05:00P	6613316986	Participant	152.00	7.60
7	3/01/18	05:01P	9169998777	Participant	148.00	7.40
8	3/01/18	06:08P	4157938420	Participant	76.00	3.80
9	3/01/18	07:26P	9258581340	Participant	3.00	.15
Subtotal			1,053.00			52.65

Cuyama BDSAC Conference ID: 4299916

#	Date	Time	Other	Location	Mins	Amt
1	3/02/18	01:10P	6619783310	Host	29.00	1.45
2	3/02/18	01:11P	6614773385	Host	29.00	1.45
3	3/02/18	01:16P	8056160470	Host	24.00	1.20
4	3/02/18	01:18P	8056814200	Host	22.00	1.10
Subtotal			104.00			5.20

Cuyama BDSAC Conference ID: 4306544

#	Date	Time	Other	Location	Mins	Amt
1	3/07/18	04:01P	6614773385	Host	365.00	18.25
2	3/07/18	04:15P	8053451961	Participant	326.00	16.30
Subtotal			691.00			34.55

Cuyama BDSAC Conference ID: 4325675

#	Date	Time	Other	Location	Mins	Amt
1	3/20/18	05:30P	6613337091	Host	69.00	3.45
2	3/20/18	05:30P	6614773385	Host	69.00	3.45
3	3/20/18	05:32P	6613951000	Host	67.00	3.35
Subtotal			205.00			10.25

Cuyama BDSAC Conference ID: 4333311

#	Date	Time	Other	Location	Mins	Amt
1	3/26/18	01:26P	6613337091	Host	32.00	1.60
2	3/26/18	01:28P	8056802226	Host	29.00	1.45
3	3/26/18	01:30P	8056814200	Host	28.00	1.40

4	3/26/18	01:31P	5596361166	Host	27.00	1.35
5	3/26/18	01:31P	6613638463	Host	27.00	1.35
6	3/26/18	01:36P	8056160470	Host	22.00	1.10
Subtotal			165.00			8.25

Cuyama BDSAC Conference ID: 4340429

#	Date	Time	Other	Location	Mins	Amt
1	3/29/18	04:53P	8057484033	Participant	167.00	8.35
2	3/29/18	05:00P	9256274112	Host	160.00	8.00
3	3/29/18	05:01P	4159990316	Host	19.00	.95
4	3/29/18	05:01P	6614773385	Host	162.00	8.10
5	3/29/18	05:30P	4155242290	Host	125.00	6.25
Subtotal			633.00			31.65

Cuyama GSA Conference ID: 4299672

#	Date	Time	Other	Location	Mins	Amt
1	3/02/18	11:58A	6613337091	Host	58.00	2.90
2	3/02/18	12:00P	9169998777	Host	56.00	2.80
3	3/02/18	12:01P	4155242290	Host	55.00	2.75
4	3/02/18	12:07P	4157938420	Host	49.00	2.45
5	3/02/18	12:07P	9256274112	Host	49.00	2.45
Subtotal			267.00			13.35

Cuyama GSA Conference ID: 4309965

#	Date	Time	Other	Location	Mins	Amt
1	3/09/18	11:56A	6614773385	Host	62.00	3.10
2	3/09/18	11:58A	4157938420	Host	59.00	2.95
3	3/09/18	11:58A	9256274112	Host	51.00	2.55
4	3/09/18	11:59A	5304058800	Host	59.00	2.95
5	3/09/18	12:02P	4155242290	Host	56.00	2.80
6	3/09/18	12:49P	9258581340	Host	8.00	.40
Subtotal			295.00			14.75

Cuyama GSA Conference ID: 4320632

#	Date	Time	Other	Location	Mins	Amt
1	3/16/18	11:56A	4157938420	Host	63.00	3.15
2	3/16/18	11:57A	6614773385	Host	89.00	4.45
3	3/16/18	11:58A	6613337091	Host	88.00	4.40
4	3/16/18	12:01P	9169998777	Host	85.00	4.25
5	3/16/18	12:02P	6613951000	Host	57.00	2.85
6	3/16/18	12:04P	4155242290	Host	82.00	4.10
Subtotal			464.00			23.20

Cuyama GSA Conference ID: 4330986

#	Date	Time	Other	Location	Mins	Amt
1	3/23/18	11:57A	4157938420	Host	80.00	4.00
2	3/23/18	11:58A	6614773385	Host	79.00	3.95
3	3/23/18	12:00P	9169998777	Host	77.00	3.85
4	3/23/18	12:05P	9256274112	Host	72.00	3.60
Subtotal			308.00			15.40

Cuyama GSA Conference ID: 4340440

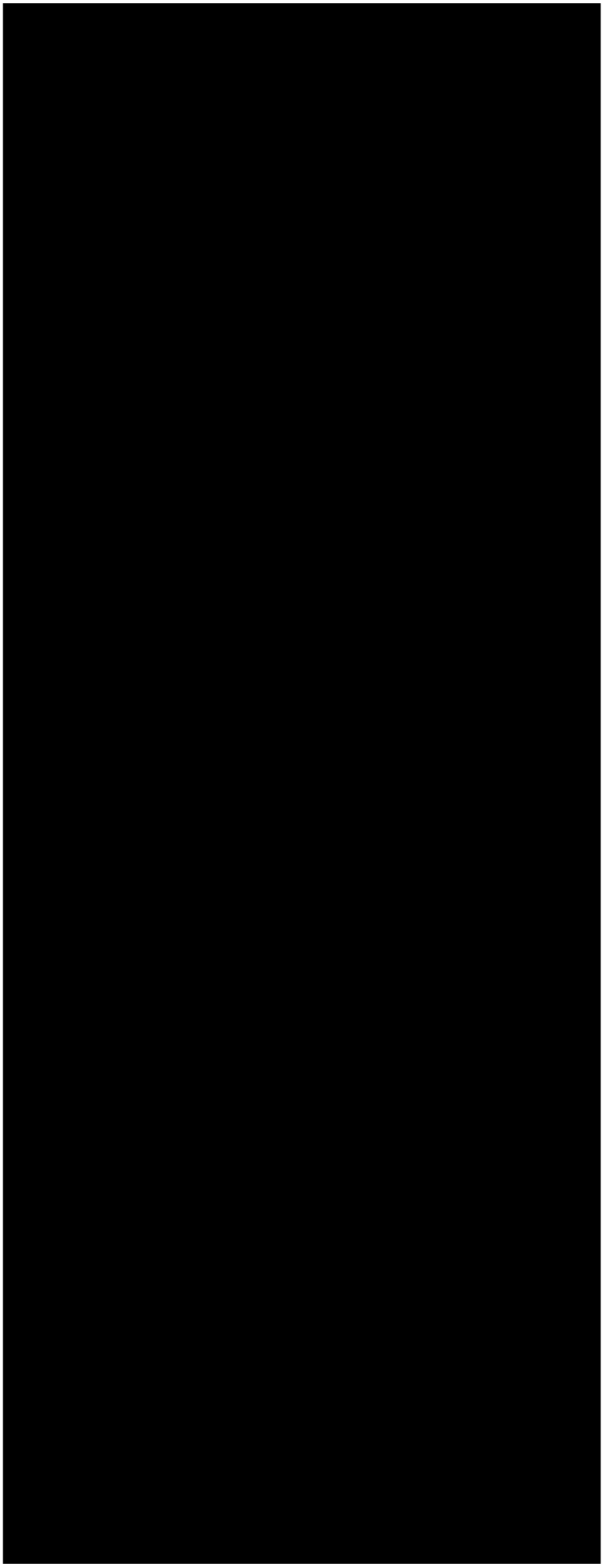
#	Date	Time	Other	Location	Mins	Amt
1	3/29/18	05:26P	4155242290	Host	1.00	.05
Subtotal			1.00			.05

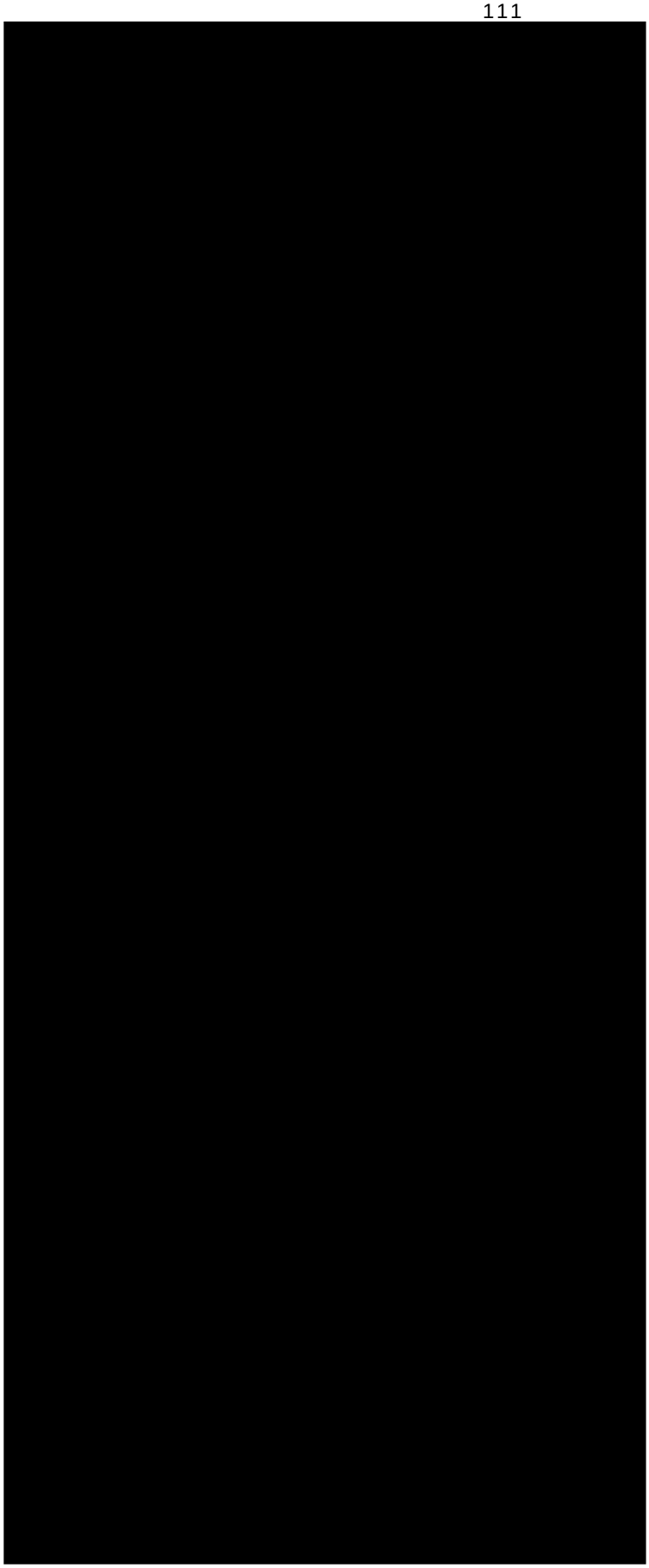
Cuyama GSA Conference ID: 4341291

#	Date	Time	Other	Location	Mins	Amt
1	3/30/18	11:58A	6614773385	Host	45.00	2.25
2	3/30/18	12:00P	4159990316	Host	43.00	2.15
3	3/30/18	12:01P	9256274112	Host	2.00	.10
4	3/30/18	12:02P	6613337091	Host	41.00	2.05
5	3/30/18	12:03P	9256274112	Host	40.00	2.00
Subtotal			171.00			8.55

[redacted]

[redacted]





GAN BREAKDOWN

52.65
5.20
34.55
10.25
8.25
31.65
13.35
14.75
23.20
0.05
15.40
8.55
217.85
18.4000%
40.08
257.93

Cuyama Person Summary with Expense Detail

Date Range: 3/1/18 -3/31/18

Client / *Project*	*Person* / *Expense Type*	*Date*	*Description*	*Mileage*	*Amount*
Cuyama Basin Water District					
1708-CBWD Cuyama Basin					
	Taylor Blakslee				***$66.34***
	Mileage			*124.00*	*$66.34*
		3/1/2018	Travel to Cuyama for the 3/1/18 SAC meeting.	124.00	$66.34
				Cuyama Basin Subtotal	**$66.34**
				Cuyama Basin Water District Subtotal	**$66.34**
				Grand Total	***$66.34***

HALLMARK GROUP Capital Program Management

INVOICE

1901 Royal Oaks Drive
Suite 200
Sacramento, CA 95815

916 923.1500
hgcpm.com

To: Matt Young
Cuyama Basin Groundwater Sustainability Agency
Santa Barbara County Water Agency
130 E. Victoria Street, Suite 200
Santa Barbara, CA 93105

Please Remit To: **Hallmark Group**
1901 Royal Oaks Drive, Suite 200
Sacramento, CA 95815
P: (916) 923-1500

Invoice No.: 2018-CBWD-TO2-03A
Task Order: CB-HG-002
Date: April 27, 2018

For professional services rendered for the month of March 2018

Task Order	Sub task	Task Description	Billing Category	Month Ending	Hours	Rate	Amount
CB-HG-002	1	Budget Development & Admin	Executive Director	3/31/2018	3.00	$ 250.00	$ 750.00
			Project Controls Manager	3/31/2018	1.75	$ 200.00	$ 350.00
			Project Admin	3/31/2018	2.75	$ 100.00	$ 275.00
						Total Task 1 Labor	**$ 1,375.00**
CB-HG-002	2	Financial Management	Executive Director	3/31/2018	1.00	$ 250.00	$ 250.00
			Project Controls Manager	3/31/2018	1.25	$ 200.00	$ 250.00
			Project Admin	3/31/2018	8.25	$ 100.00	$ 825.00
						Total Task 2 Labor	**$ 1,325.00**
CB-HG-002	3	Outreach Facilitation	Executive Director	3/31/2018	0.50	$ 250.00	$ 125.00
			Project Admin	3/31/2018	0.00	$ 100.00	$ -
						Total Task 3 Labor	**$ 125.00**
						Total Labor	**$ 2,825.00**
		Travel					$ -
						SubTotal Travel	**$ -**
		Other Direct Costs					$ -
			ODC Mark Up			5%	$ -
						SubTotal Other Direct Costs	**$ -**
						Total Travel & Other Direct Costs	**$ -**
						TOTAL AMOUNT DUE FOR THIS INVOICE	**$ 2,825.00**

CB-HG-002	Original Totals	Amendment(s)	Total Committed	Previously Billed	Current Billing	Remaining Balance
Task 1	$ 13,400.00	$ -	$ 13,400.00	$ 6,850.00	$ 1,375.00	$ 5,175.00
Task 2	$ 28,400.00	$ -	$ 28,400.00	$ 3,137.50	$ 1,325.00	$ 23,937.50
Task 3	$ 32,100.00	$ -	$ 32,100.00	$ 225.00	$ 125.00	$ 31,750.00
Travel & ODCs	$ 2,820.00	$ -	$ 2,820.00	$ -	$ -	$ 2,820.00
Total	$ 76,720.00	$ -	$ 76,720.00	$ 10,212.50	$ 2,825.00	$ 63,682.50

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #2
Activities for the Month of March 2018:

- **J. Harris**

Task 1: Budget Development & Administration

- None

Task 2: Financial Management

- Continue development of GL account structure and invoicing templates.
- Review budgets; develop budget in accounting system
- Monthly invoicing – First Assessment

Task 3: Outreach Facilitation

- None

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #2
Activities for the Month of March 2018:

- **J. Beck**

Task 1: Budget Development & Administration

- Developed the FY 2018-19 Budget.

Task 2: Financial Management

- None

Task 3: Outreach Facilitation

- None

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #2
Activities for the Month of March

K. Sherry

Task 1: Budget Development & Administration

- None

Task 2: Financial Management

- Monthly Billing & Administration

Task 3: Outreach Facilitation

- None

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #2
Activities for the Month of March 2018:

T. Blakslee

Task 1: Budget Development & Administration

- Assisted in the development of the FY 2018-19 budget.
- Set up a budget ad hoc meeting on 3/26/18 to review the draft Fiscal Year 2018-19 budget.

Task 2: Financial Management

- Worked with Chase Bank to set up a not-for-profit checking account.
- Assisted in tracking the draft funding agreement from the County of San Luis Obispo.
- Coordinated the continuation of insurance coverage.

Task 3: Outreach Facilitation

- None

WOODARD &CURRAN

COMMITMENT & INTEGRITY
DRIVE RESULTS

Remit to:
PO Box 55008
Boston, MA 02205-5008

T 800.426.4262
T 207.774.2112
F 207.774.6635

TD BANK
Electronic Transfer:
⑆211274450⑆ 2427662596⑈

INVOICE

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Jim Beck
Executive Director
Cuyama Basin Groundwater Sustainability Agency
c/o Hallmark Group
1901 Royal Oaks Drive, Suite 200
Sacramento, CA 95815

April 19, 2018
Project No: 0011078.01
Invoice No: 149168

Project 0011078.01 CUYAMA GSP

Professional Services for the period ending March 30, 2018

Phase 002 Data Management System, Data Collection and Analysis, and Plan Review

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	6.00	315.00	1,890.00	
Project Manager 2				
Long, Jeanna	2.00	258.00	516.00	
Van Lienden, Brian	15.00	258.00	3,870.00	
Senior Project Manager				
Long, Jeanna	1.50	274.00	411.00	
Totals	24.50		6,687.00	
Labor Total				**6,687.00**
		Total this Phase		**$6,687.00**

Phase 003 Description of the Plan Area, Hydraulic Conceptual Model, and Groundwater Conditions

Professional Personnel

	Hours	Rate	Amount	
Geologist 2				
Salberg, Lauren	60.50	182.00	11,011.00	
National Practice Lead				
Melton, Lyndel	7.00	315.00	2,205.00	
Project Manager 2				
Van Lienden, Brian	14.00	258.00	3,612.00	
Totals	81.50		16,828.00	
Labor Total				**16,828.00**
		Total this Phase		**$16,828.00**

Please include our invoice number in your remittance. Thank you.

Project	0011078.01	CUYAMA GSP	Invoice	149168

Phase 004 Basin Model and Water Budget

Professional Personnel

	Hours	Rate	Amount	
Engineer 1				
Bradley, Kelsey	87.50	157.00	13,737.50	
Zhou, Jingnan	.50	157.00	78.50	
Engineer 2				
Ceyhan, Mahmut	56.50	182.00	10,283.00	
Wicks, Matthew	8.00	182.00	1,456.00	
National Practice Lead				
Melton, Lyndel	10.00	315.00	3,150.00	
Project Manager 2				
Ayres, John	22.00	258.00	5,676.00	
Cayar, Mesut	.50	258.00	129.00	
Van Lienden, Brian	23.00	258.00	5,934.00	
Senior Technical Practice Lead				
Taghavi, Ali	34.00	301.00	10,234.00	
Totals	242.00		50,678.00	
Labor Total				**50,678.00**
		Total this Phase		**$50,678.00**

Phase 005 Establish Basin Sustainability Criteria

Professional Personnel

	Hours	Rate	Amount	
Project Manager 2				
Ayres, John	5.00	258.00	1,290.00	
Totals	5.00		1,290.00	
Labor Total				**1,290.00**
		Total this Phase		**$1,290.00**

Phase 006 Monitoring Networks

Professional Personnel

	Hours	Rate	Amount	
Planner 1				
Eggleton, Charles	6.50	157.00	1,020.50	
Planner 2				
Eggleton, Charles	26.75	182.00	4,868.50	
Project Manager 2				
Ayres, John	10.00	258.00	2,580.00	
Totals	43.25		8,469.00	
Labor Total				**8,469.00**

Project	0011078.01	CUYAMA GSP	Invoice	149168

Total this Phase **$8,469.00**

Phase 007 Projects and Actions for Sustainability Goals

Professional Personnel

	Hours	Rate	Amount	
Engineer 1				
Bradley, Kelsey	40.00	157.00	6,280.00	
Project Manager 2				
Van Lienden, Brian	24.00	258.00	6,192.00	
Totals	64.00		12,472.00	
Labor Total				**12,472.00**

Total this Phase **$12,472.00**

Phase 010 Outreach, Education and Communication

Professional Personnel

	Hours	Rate	Amount	
Graphic Artist				
Fox, Adam	29.00	115.00	3,335.00	
National Practice Lead				
Melton, Lyndel	16.00	315.00	5,040.00	
Planner 1				
De Anda, Vanessa	8.00	157.00	1,256.00	
Project Assistant				
Takao, Erin	2.00	108.00	216.00	
Project Manager 2				
Van Lienden, Brian	24.00	258.00	6,192.00	
Senior Technical Practice Lead				
Lopezcalva, Enrique	6.00	301.00	1,806.00	
Totals	85.00		17,845.00	
Labor Total				**17,845.00**

Project	0011078.01	CUYAMA GSP		Invoice	149168

Reimbursable

Vehicle Expenses					
3/7/2018	Van Lienden, Brian	Travel for Cuyama GSP		31.93	
3/8/2018	Van Lienden, Brian	Travel for Cuyama GSP		30.50	
3/8/2018	Van Lienden, Brian	Travel for Cuyama GSP		92.84	
3/29/2018	Van Lienden, Brian	Travel for Cuyama GSP SAC meeting		43.94	
3/29/2018	Van Lienden, Brian	Travel for Cuyama GSP SAC meeting		35.44	
3/29/2018	Van Lienden, Brian	Travel for Cuyama GSP SAC meeting		29.23	
Travel & Lodging					
3/7/2018	Van Lienden, Brian	Travel for Cuyama GSP		120.29	
3/7/2018	Van Lienden, Brian	Travel for Cuyama GSP		117.57	
Meals					
3/7/2018	Taghavi, Ali	Travel for Cuyama GSP Meeting		17.11	
3/7/2018	Van Lienden, Brian	Travel for Cuyama GSP meeting		11.32	
3/29/2018	Van Lienden, Brian	Travel for Cuyama GSP SAC meeting		10.08	
Printing / Reproduction					
3/13/2018	ABC Imaging/Graphic Reproduction	Inv#20009198		745.95	
Computer Charges					
12/30/2017	Felix, Carlos	Client Domains		36.32	
	Reimbursable Total		**1.1 times**	**1,322.52**	**1,454.77**

Consultant

Subcontractor Expense					
3/30/2018	The Catalyst Group, Inc.	Inv#295		16,499.63	
	Consultant Total		**1.1 times**	**16,499.63**	**18,149.59**
			Total this Phase		**$37,449.36**

Phase 011 Project Management

Professional Personnel

	Hours	**Rate**	**Amount**	
National Practice Lead				
Melton, Lyndel	5.00	315.00	1,575.00	
Project Assistant				
Hughart, Desiree	3.00	108.00	324.00	
Project Manager 2				
Van Lienden, Brian	10.00	258.00	2,580.00	
Senior Project Manager				
Morrow, Robert	.50	274.00	137.00	
Totals	18.50		4,616.00	
Labor Total				**4,616.00**

Project	0011078.01	CUYAMA GSP	Invoice	149168

Total this Phase **$4,616.00**

Phase 012 Groundwater Monitoring Well Network Expansion

Professional Personnel

	Hours	Rate	Amount	
Engineer 1				
Bradley, Kelsey	40.00	157.00	6,280.00	
Planner 2				
Eggleton, Charles	1.50	182.00	273.00	
Project Manager 2				
Van Lienden, Brian	50.00	258.00	12,900.00	
Totals	91.50		19,453.00	
Labor Total				**19,453.00**

Total this Phase **$19,453.00**

Phase 015 Category 1 Project Management

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	4.00	315.00	1,260.00	
Project Manager 2				
Van Lienden, Brian	7.00	258.00	1,806.00	
Totals	11.00		3,066.00	
Labor Total				**3,066.00**

Total this Phase **$3,066.00**

Total this Invoice **$161,008.36**

Outstanding Invoices

Number	Date	Balance
146686	1/22/2018	43,199.00
147547	2/21/2018	72,133.13
148227	3/16/2018	145,251.07
Total		**260,583.20**

	Current Fee	Previous Fee	Total
Project Summary	**161,008.36**	**260,583.20**	**421,591.56**

Approved by:

Brian Van Lienden
Project Manager
Woodard & Curran

Progress Report

Cuyama Basin Groundwater Sustainability Plan Development

Subject:	**March 2018 Progress Report**
Prepared for:	Jim Beck, Executive Director, Cuyama Basin Groundwater Sustainability Agency (CBGSA)
Prepared by:	Brian Van Lienden, Woodard & Curran
Reviewed by:	Lyndel Melton, Woodard & Curran
Date:	April 13, 2018
Project No.:	0011078.01

This progress report summarizes the work performed and project status for the period ofFebruary 24, 2018 through March 30, 2018 on the Cuyama Basin Groundwater Sustainability Plan Development project. The work associated with this invoice was performed in accordance with our Consulting Services Agreement dated December 6, 2017, and with Task Order 1, issued by CBGSA on December 6, 2017 and Task Orders 2 and 3, issued by CBGSA on March 7, 2018.

The progress report contains the following sections:

1. Work Performed
2. Budget Status
3. Schedule Status
4. Outstanding Issues to be Coordinated

1 Work Performed

A summary of work performed on the project during the current reporting period is provided in Tables 1 and 2 below. Table 1 shows work performed under Task Orders 1 and 2, which include tasks identified in the forthcoming Category 2 grant from the California Department of Water Resources (DWR). Table 2 shows work performed under Task Order 3, which includes tasks identified in the forthcoming Category 1 grant from DWR.

Table 1: Summary of Task/Deliverables Status for Category 2 Tasks (Task Orders 1 and 2)

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 1: Initiate Work Plan for GSP and Stakeholder Engagement Strategy Development	• Task 1 is completed; no work was completed on this task during this reporting period	• Task 1 is completed; no work is anticipated during the next reporting period
Task 2: Data Management System, Data Collection and Analysis, and Plan Review	• Continued data and information outreach with Cuyama Basin agency representatives and landowners • Performed analysis of potential data management platforms and developed approach for data management system	• Finalize data and information outreach efforts • Begin development of data management system
Task 3: Description of the Plan Area, Hydrogeologic Conceptual Model, and Groundwater Conditions	• Refined Plan Area maps and draft Plan Area section for GSP • Continued work on Hydrologic Conceptual Model (HCM) development	• Submit draft Plan Area section to GSA executive director for review • Develop initial HCM description
Task 4: Basin Model and Water Budget	• Facilitated discussion of modeling data and approach at March 7 workshop • Begin development of Integrated Water Flow Model (IWFM), including updating model grid and model data sets	• Continued development of IWFM model
Task 5: Establish Basin Sustainability Criteria	• Initiated developing approach for identifying sustainability goals	• Develop materials to facilitate discussions on sustainability with CBGSA Board and stakeholders
Task 6. Monitoring Networks	• Reviewed available monitoring well locations and monitoring data	• Develop maps and protocols for monitoring of each sustainability indicator
Task 7: Projects and Actions for Sustainability Goals	• Conducted initial discussions with stakeholders and data gathering on potential projects within the Cuyama Basin	• Identification and refinement of potential projects and actions

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 8. GSP Implementation	• No work was completed on this task during this reporting period	• No work is anticipated during the next reporting period
Task 9. GSP Development	• No work was completed on this task during this reporting period	• No work is anticipated during the next reporting period
Task 10: Education, Outreach and Communication	• Participated in meetings with CBGSA Board, Advisory Committee and local stakeholders • Developed template for CBGSA newsletter, refined SBGSA logo	• Continued participation in meetings with CBGSA Board and advisory committee and local stakeholders • Develop initial CBGSA newsletter
Task 11: Project Management	• Ongoing project management activities	• Ongoing project management activities

Table 2: Summary of Task/Deliverables Status for Category 1 Tasks (Task Order 3)

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 12: Groundwater Monitoring Well Network Expansion	• Compilation and review of existing groundwater monitoring data within the Cuyama Basin	• Develop summary of existing monitoring wells and data
Task 13: Evapotranspiration Evaluation for Cuyama Basin Region	• No work was completed on this task during this reporting period	No work is anticipated during the next reporting period
Task 14: Surface Water Monitoring Program	• No work was completed on this task during this reporting period	• No work is anticipated during the next reporting period
Task 15: Category 1 Project Management	• Ongoing project management activities	• Ongoing project management activities

2 Budget Status

Table 3 shows the percent spent for each task under Task Order 1 as of March 30, 2018. 100% of the available Task Order 1 budget has been expended ($321,135.00 out of $321,135).

Table 3: Budget Status for Task Order 1

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
1	$ 35,768.00	$ 35,755.53	$ -	$ 35,755.53	$ 12.47	100%
2	$ 61,413.00	$ 59,322.00	$ 2,091.00	$ 61,413.00	$ -	100%
3	$ 45,766.00	$ 41,701.50	$ 4,064.50	$ 45,766.00	$ -	100%
4	$ 110,724.00	$ 78,110.75	$ 32,613.25	$ 110,724.00	$ -	100%
5	$ -	$ -	$ -	$ -	$ -	n/a
6	$ -	$ -	$ -	$ -	$ -	n/a
7	$ 12,120.00	$ -	$ 12,120.00	$ 12,120.00	$ -	100%
8	$ -	$ -	$ -	$ -	$ -	n/a
9	$ -	$ -	$ -	$ -	$ -	n/a
10	$ 45,420.00	$ 36,263.92	$ 9,168.55	$ 45,432.47	$ (12.47)	100%
11	$ 9,924.00	$ 9,429.50	$ 494.50	$ 9,924.00	$ -	100%
Total	**$ 321,135.00**	**$ 260,583.20**	**$ 60,551.80**	**$ 321,135.00**	**$ -**	**100%**

Table 4 shows the percent spent for each task under Task Order 2 as of March 30, 2018. 20% of the available Task Order 2 budget has been expended ($77,937.56 out of $399,469).

Table 4: Budget Status for Task Order 2

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
1	$ -	$ -	$ -	$ -	$ -	n/a
2	$ 48,457.00	$ -	$ 4,596.00	$ 4,596.00	$ 43,861.00	9%
3	$ 24,182.00	$ -	$ 12,763.50	$ 12,763.50	$ 11,418.50	53%
4	$ 103,880.00	$ -	$ 18,064.75	$ 18,064.75	$ 85,815.25	17%
5	$ 60,676.00	$ -	$ 1,290.00	$ 1,290.00	$ 59,386.00	2%
6	$ 65,256.00	$ -	$ 8,469.00	$ 8,469.00	$ 56,787.00	13%
7	$ 36,402.00	$ -	$ 352.00	$ 352.00	$ 36,050.00	1%
8	$ -	$ -	$ -	$ -	$ -	n/a
9	$ -	$ -	$ -	$ -	$ -	n/a
10	$ 45,420.00	$ -	$ 28,280.81	$ 28,280.81	$ 17,139.19	62%
11	$ 15,196.00	$ -	$ 4,121.50	$ 4,121.50	$ 11,074.50	27%
Total	**$ 399,469.00**	**$ -**	**$ 77,937.56**	**$ 77,937.56**	**$ 321,531.44**	**20%**

Table 5 shows the percent spent for each task under Task Order 3 as of March 30, 2018. 12% of the available Task Order 3 budget has been expended ($22,519.00 out of $188,238).

Table 5: Budget Status for Task Order 3

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
12	$ 53,244.00	$ -	$ 19,453.00	$ 19,453.00	$ 33,791.00	37%
13	$ 69,706.00	$ -		$ -	$ 69,706.00	0%
14	$ 53,342.00	$ -		$ -	$ 53,342.00	0%
15	$ 11,946.00	$ -	$ 3,066.00	$ 3,066.00	$ 8,880.00	26%
Total	**$ 188,238.00**	**$ -**	**$ 22,519.00**	**$ 22,519.00**	**$ 165,719.00**	**12%**

3 Schedule Status

The project is on schedule. Work under Task Order 1 is complete. Work under Task Orders 2 and 3 are scheduled to be completed on June 30, 2018.

4 Outstanding Issues to be Coordinated

There are no outstanding issues at this time.