



# CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY

## BOARD OF DIRECTORS MEETING

### Board of Directors

**Cory Bantilan** Chair, Santa Barbara County Water Agency  
**Matt Vickery** Vice Chair, Cuyama Basin Water District  
**Arne Anselm** Secretary, County of Ventura  
**Byron Albano** Treasurer, Cuyama Basin Water District  
**Rick Burnes** Cuyama Basin Water District  
**Jimmy Paulding** County of San Luis Obispo

**Zack Scrivner** County of Kern  
**Das Williams** Santa Barbara County Water Agency  
**Deborah Williams** Cuyama Community Services District  
**Jane Wooster** Cuyama Basin Water District  
**Derek Yurosek** Cuyama Basin Water District

### AGENDA

November 1, 2023

Agenda for a meeting of the Cuyama Basin Groundwater Sustainability Agency Board of Directors to be held on Wednesday, November 1, 2023, at 2:00 PM at the **Cuyama Valley Family Resource Center 4689 CA-166, New Cuyama, CA 93254**. Participate via computer at: <https://rb.gy/1nxwv> or by going to Microsoft Teams, downloading the free application, then entering Meeting ID: 224 192 969 900 Passcode: jVHbgy or enter or telephonically at (469) 480-3918 Phone Conference ID: 956 062 525#.

#### Teleconference Locations:

4689 CA-166, New Cuyama, CA 93254	1055 Monterey Street, San Luis Obispo, CA 93408	102 Antelope Ln Cascade, MT, United States	800 S. Victoria Ave. Ventura, CA 93009
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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. 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
2. Roll Call
3. Pledge of Allegiance
4. Standing Advisory Committee Meeting Report
5. Report on Accounts Receivable

### CONSENT AGENDA

*Items listed on the Consent Agenda are considered routine and non-controversial by staff and will be approved by one motion if no member of the Board or public wishes to comment or ask questions. If comment or discussion is desired by anyone, the item will be removed from the Consent Agenda and will be considered in the listed sequence with an opportunity for any member of the public to address the Board concerning the item before action is taken.*

6. Approve Minutes – September 6, 2023
7. Approve Payment of Bills for August and September 2023
8. Approve Financial Report for August and September 2023

### **ACTION ITEMS**

*All action items require a simple majority vote by default (50% of the vote). Items that require a super majority vote (75% of the weighted total) will be noted as such at the end of the item.*

9. Review and Take Appropriate Action on SAC Membership Applications
10. Groundwater Sustainability Plan Amendment Components
  - a) Update on GSP Component Schedule
  - b) Overview of Public Workshop on October 12, 2023
  - c) Update on September 2023 GSP Component Discussion
  - d) Discuss and Take Appropriate Action on Groundwater Subsidence Monitoring Network [**Final** Discussion]
  - e) Discuss and Take Appropriate Action on Groundwater Interconnected Surface Water (ISW) Monitoring Network [**Final** Discussion]
  - f) Discuss and Take Appropriate Action on Groundwater Water Quality Monitoring Network [**Final** Discussion]
  - g) Discuss and Take Appropriate Action on Sustainable Management Criteria and Undesirable Results Criteria for Groundwater Subsidence [**Initial** Discussion]
  - h) Discuss and Take Appropriate Action on Sustainable Management Criteria and Undesirable Results Criteria for Groundwater Interconnected Surface Water (ISW) [**Initial** Discussion]
  - i) Discuss and Take Appropriate Action on Sustainable Management Criteria and Undesirable Results Criteria for Groundwater Water Quality [**Initial** Discussion]
  - j) Discuss and Take Appropriate Action on Glidepath Methodology [**Initial** Discussion]
  - k) Approval of 2024 Meeting Calendar

### **REPORT ITEMS**

11. Administrative Updates
  - a) Report of the Executive Director
  - b) Report of the General Counsel
12. Technical Updates
  - a) Update on Groundwater Sustainability Plan Activities
  - b) Update on Grant-Funded Projects
  - c) Update on 2023 Groundwater Quality Conditions Report
13. Report of Ad Hoc Committees
14. Directors' Forum
15. Public Comment for Items Not on the Agenda
16. Correspondence

### **CLOSED SESSION**

17. Conference with Legal Counsel – Anticipation Litigation  
Significant Exposure to Litigation Pursuant to Government Code section 54956.9(d)(2)
  - (a) Number of Potential Cases: One
18. Adjourn

CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY

**2023 Board Ad hocs**

<b>1</b>	<b>GSP Amendment</b>	Albano Paulding Williams, Das Wooster Yurosek
<b>2</b>	<b>Basin-Wide Water Management Policy</b>	Anselm Bantilan Williams, Deborah Yurosek
<b>3</b>	<b>Central Management Area Policy</b>	Anselm Bantilan Vickery Williams, Deborah Wooster
<b>4</b>	<b>Grant-Funded Items</b>	Albano Vickery Williams, Das Williams, Deborah
<b>5</b>	<b>Unknown Extractors</b>	Anselm Vickery

**Tech Forum Participants**

<b>Participants</b>	<b>Entity</b>	<b>Representing</b>
Bob Abrams	Aquilogic	Member of public observing
Neil Currie	Cleath-Harris	Grapevine Capital
Matt Klinchuch	Cuyama Basin Water District	Cuyama Basin Water District
Jeff Shaw John Fio Karthik Ramesh	EKI	Cuyama Basin Water District
Matt Young Matt Scudato	Santa Barbara	Santa Barbara County Water Agency
Bianca Cabera Steve Johnson Jeff Helsley	Stetson Engineers	Sunrise Olive



TO: Board of Directors  
Agenda Item No. 5

FROM: Taylor Blakslee, Hallmark Group

DATE: November 1, 2023

SUBJECT: Report on Accounts Receivable

**Recommended Motion**

Write-off accrued late payment penalties totaling \$2,498.54 for Cuyama Orchards, Inc.

**Discussion**

On September 6, 2023, a director request was made to provide an update on the accounts receivable at the November 1, 2023 Cuyama Basin Groundwater Sustainability Agency (CBGSA) Board meeting.

The CBGSA's Accounts Receivable balance at 09/30/23 consists of the following:

- 1. Department of Water Resources \$1,113,017.22**
  - Includes grant draw nos. 3-5.
  - Grant draw no. 3 was received on 10/17/23 in the amount of \$391,357.90.
- 2. Cuyama Orchards, Inc \$2,498.54**
  - Fees for Fiscal Year 2020-2021 and 2021-2022 including accrued late payment penalties were added to the Santa Barbara County and Ventura County tax rolls.
  - All fees and accrued late payment penalties that were submitted have been collected in full through the tax assessment process.
  - The \$2,498.54 outstanding receivable amount represents a CBGSA calculated accrual of late payment penalties that staff recommends be written-off due to a timing issue (the continuation of the accrual of late payment penalties subsequent to the date the total outstanding fees and penalties were submitted to the two counties to be added to the tax roll).

Cuyama Basin Groundwater Sustainability Agency  
Board of Directors Meeting

September 6, 2023

**Draft Meeting Minutes**

**PRESENT:**

Directors

Bantilan, Cory – Chair  
Vickery, Matt – Vice Chair  
Albano, Byron – Treasurer  
Anselm, Arne – Secretary  
Burnes, Rick  
Reely, Blaine – Alternate for Paulding, Jimmy  
Scrivner, Zack  
Williams, Das  
Williams, Debby  
Wooster, Jane  
Yurosek, Derek

Staff

Beck, Jim – Executive Director  
Blakslee, Taylor – Assistant Executive Director  
Van Lienden, Brian – Woodard & Curran  
Gardiner, Charles – Woodard & Curran  
Dominguez, Alex – Legal Counsel

**ABSENT:**

None

**1. Call to Order**

Cuyama Basin Groundwater Sustainability Agency (CBGSA) Chair Cory Bantilan called the meeting to order at 2:00 p.m.

In accordance with Assembly Bill 2449, Director Das Williams notified the Board at the beginning of the meeting of his need to participate remotely in the meeting for just cause (i.e., for childcare purposes).

**2. Roll Call**

Mr. Blakslee called roll (shown above) and informed Chair Bantilan that there was a quorum of the Board.

**3. Pledge of Allegiance**

The pledge of allegiance was led by Chair Bantilan.

#### 4. Standing Advisory Committee Meeting Report

Legal Counsel Alex Dominguez reported that the SAC had recently inquired if the SAC is required to reserve seats on the SAC for members of the Hispanic Community, and he reported that they do not according to the joint powers agreement. Chair Bantilan recommended that staff send out an email to CBGSA stakeholders to see if there is any interest from the community to join the SAC.

## CONSENT AGENDA

#### 5-7. Consent Agenda

Chair Bantilan asked if any Directors wanted to move any of the consent items out to discuss in more detail. No request was made, and Chair Bantilan asked if there was a motion to approve consent agenda item nos. 5-7.

Director Yurosek requested an update on the accounts receivable at the next regularly scheduled meeting.

#### MOTION

Director Yurosek made a motion to approve the consent agenda item nos. 5-7. The motion was seconded by Vice Chair Vickery, a roll call vote was made and passed with 100%.

AYES: Albano, Anselm, Bantilan, Burnes, Reely, Scrivner, Vickery, Das Williams, Debby Williams, Wooster, Yurosek  
 NOES: None  
 ABSTAIN: None  
 ABSENT: None

## ACTION ITEMS

#### 8. Groundwater Sustainability Plan Amendment Components

##### a. Discuss and Take Appropriate Action on Pumping Reduction Implementation

Mr. Beck reviewed the Groundwater Sustainability Plan (GSP) update and Board policy discussion schedule which is provided in the Board packet.

Mr. Dominguez presented concepts for establishing an allocation program, Mr. Blakslee reviewed the existing allocation methodology, and Mr. Dominguez reviewed the lessons learned in establishing the 2023 allocation which is included in the Board packet.

Director Albano asked staff if there is a policy that says those outside the central management area (CMA) are not allowed to pump to lands inside the CMA and Mr. Blakslee replied that the overarching policy specifies this unless lands are part of a farming unit.

Mr. Blakslee reviewed the technical forum feedback, which is included in the Board packet and indicated staff will provide a list of the participants in the technical forum

and who they represent via email and in subsequent SAC and Board packets.

SAC Chair Kelly provided the SAC feedback on pumping reduction implementation which is provided in the SAC report.

Director Reely commented that the allocation implementation plan should eventually transition to using the metered data and Director Debby Williams agreed with this statement.

Director Vickery agreed with the technical forum feedback and noted it is too early to assess the success of the current pumping reduction program.

Director Albano commented it will be difficult to use the meter data as a substitute for historical data when most pumpers only recently started recording their meter data.

Director Scrivner said he does not currently recommend any changes to the pumping allocation program.

Director Das Williams commented that the variance pool may need to be revisited.

Chair Bantilan commented that a hybrid version of an allocation program may be the best option and asked staff to create a list of parcels that exclude di minimis users.

**b. Discuss and Take Appropriate Action on Basin-Wide Pumping Restrictions**

Mr. Beck provided background on potential pumping reductions outside the CMA according to the GSP and Mr. Blakslee presented options to consider implementing pumping allocations outside the CMA which is included in the Board packet.

SAC Chair Kelly provided the SAC report on basin-wide pumping restrictions which is provided in the SAC report.

Duncan Family Farm legal counsel Derek Hoffman commented it is unequitable to impose pumping reductions on one portion of the basin and not in others and doing nothing is not the best option for the basin.

Director Yurosek commented the entire basin is in overdraft and doing nothing is not the best option.

Director Reely commented that it is important to see how well the current pumping reduction plans are going to perform but basin-wide pumping reductions should be implemented.

Director Debby Williams agreed that the basin should be treated as a whole.

Director Wooster commented that the CBGSA's efforts should be focused on irrigated lands.

Vice Chair Vickery said if there are irrigators upstream of this underground river pumping water, it is only fair to restrict their pumping and more data needs to be collected to make an educated decision.

Director Burnes commented that it is important to get more data before making a decision.

Director Albano commented it would be unfair to reduce pumping for those irrigators who have taken steps to be sustainable.

Director Das Williams said more data is needed before any action is taken.

Chair Bantilan commented that not every part of the Basin is the same, but more data is needed to establish basin-wide reductions.

Vice Chair Vickery commented that if the groundwater is interconnected it is important to manage the basin as a whole, however, if the groundwater is not interconnected then the Board should consider reductions differently for each area that is not interconnected.

**c. Discuss and Take Appropriate Action on Central Management Area Boundary**

Mr. Van Lienden provided an overview on the GSP approach, options for management area boundaries, and technical forum feedback which are included in the Board packet.

Director Wooster asked staff if they have taken real data to compare the modeled groundwater level changes. Mr. Van Lienden replied this will be done as part of the next model update.

SAC Chair Kelly provided the SAC report on central management area boundary which is provided in the SAC report.

Stakeholder Cecilia Berry commented there is an article that stated lands in the grey area are not subject to the GSP or pumping reductions and asked for clarification on whether that is true or not. Chair Bantilan replied they do not currently have pumping reductions, but they are subject to the GSP.

Sunrise Olive legal representative Jim Markman commented that having a physical area that is measured by a drop in elevation will capture those who are over-pumping, however, it also captures those who are careful of their pumping. He continued to explain his client's olive production operation is one of those who is careful with their pumping and a neighbor is slightly outside of the CMA, but their production is affecting the olive production water. He explained there is no process for landowners to contest instances like his.

Vice Chair Vickery commented that the boundary-based model is difficult to implement and if pumpers are pumping from the same interconnected water, they should all be managed the same.



Director Wooster commented that at some point the CBGSA needs to look at individual water use and see where the water is coming from and where it is going.

Director Yurosek commented that it is important to manage the entire basin as a whole.

**d. Discuss and Take Appropriate Action on Groundwater Levels Monitoring Network**

Mr. Van Lienden provided an overview of the GSP approach, groundwater levels monitoring network, and recommendation for groundwater levels monitoring network which are included in the Board packet.

SAC Chair Kelly provided the SAC report on groundwater levels monitoring network which is provided in the SAC report.

Stakeholder Cecilia Berry asked if it is legal for a landowner to pump water and sell it to another landowner. Mr. Dominguez replied usually there are rules imposed by the water district and GSA, but as of now, there are only discussions for a water market.

Director Burnes commented that it is more important to focus on the quality of data rather than the quantity of data and the CBGSA needs to ensure the monitoring network data is accurate.

Director Yurosek asked staff if there are any areas where more data is needed. Mr. Van Lienden replied the proposed new wells will help cover the data gaps but there may be other areas where additional data is needed.

Director Wooster asked if staff went through the well data survey provided from landowners. Mr. Van Lienden replied this information was considered.

Director Scrivner commented it would be important to notify pumpers what test is being done to avoid any confusion on whether the test is for water level or water quality.

**MOTION**

Vice Chair Vickery made a motion to approve staff's recommendation as presented. The motion was seconded by Director Debby Williams, a roll call vote was made and passed with 100%.

AYES:	Albano, Anselm, Bantilan, Burnes, Reely, Scrivner, Vickery, Das Williams, Debby Williams, Wooster, Yurosek
NOES:	None
ABSTAIN:	None
ABSENT:	None

**e. Discuss and Take Appropriate Action on Groundwater Storage Monitoring Network**

Mr. Van Lienden provided an overview of the GSP approach, potential options, and technical forum feedback which is provided in the Board packet.

SAC Chair Kelly provided the SAC report on groundwater storage monitoring network which is provided in the SAC report.

**MOTION**

Director Albano made a motion to approve staff's recommendation as presented. The motion was seconded by Director Burnes, a roll call vote was made and passed with 100%.

AYES:	Albano, Anselm, Bantilan, Burnes, Reely, Scrivner, Vickery, Das Williams, Debby Williams, Wooster, Yurosek
NOES:	None
ABSTAIN:	None
ABSENT:	None

**f. Discuss and Take Appropriate Action on Sustainable Management Criteria and Undesirable Results Criteria for Groundwater Levels**

Mr. Van Lienden reviewed the sustainability thresholds, GSP approach, options for groundwater levels sustainability criteria for minimum thresholds (MT) and measurable objectives (MO), and groundwater levels undesirable results definitions which are included in the Board packet.

SAC Chair Kelly provided the SAC report on sustainable management criteria and undesirable results criteria for groundwater levels which is provided in the SAC report.

Director Wooster commented the MO and MT need to be revisited and the irrigation wells in the CMA should not have the same criteria as a well outside of the CMA.

Director Yurosek agreed with the technical forum feedback, which is provided the Board packet.

Director Burnes commented it is important to look at the wells that may be providing inaccurate data.

Treasurer Albano asked if the approach can be to target specific wells to determine whether their MT and MO needs to be changed. Mr. Beck replied this would be an approach staff can take.

**g. Discuss and Take Appropriate Action on Sustainable Management Criteria and Undesirable Results Criteria for Groundwater Storage**

Mr. Van Lienden provided an overview of the GSP approach, potential options, and the technical forum feedback which are provided in the Board packet.

SAC Chair Kelly provided the SAC report on sustainable management criteria and undesirable results criteria for groundwater storage which is provided in the SAC report.

**9. Discuss and Take Appropriate Action on Plan for Public Workshops**

Catalyst Group Outreach consultant Charles Gardiner provided an overview of the purpose of the community workshop which is to provide an update on the implementation of the GSP and receive relevant feedback. He reviewed the topics, which are included in the Board packet and noted workshop is planned for October 12, 2023, from 6:00 p.m. to 8:00 p.m. at the Cuyama Valley Recreation District. SAC Chair Kelly provided a report on SAC feedback for the public workshop which is provided in the SAC report.

**10. Discuss and Take Appropriate Action on Annual Reporting Requirement for Local Crop Data**

Mr. Blakslee reviewed the draft annual reporting form for local crop data which is provided in the Board packet. He said if this form is approved, staff would create a bulk excel form like the meter reporting bulk form.

SAC Chair Kelly provided a report on SAC feedback regarding the annual reporting requirement for local crop data which is provided in the SAC report.

Director Anselm asked how forms are submitted and Mr. Blakslee responded that the forms would be mailed, emailed, and made available on the website for return to CBGSA staff.

Director Albano asked if a form would be submitted for every APN and if the information will inform staff which wells are serving which parcels. Mr. Blakslee replied that information is being provided but that is not the purpose of this form.

Director Vickery commented that the form is not clear on where to input crop information since farmers do not farm to the APN, but to the field which means there may be a lot of different crops on a single APN.

Director Yurosek commented that this form can work for small farmers but data like this information has been provided by the larger pumpers and it would be more efficient and accurate to continue using existing crop data formats rather than this form. Mr. Blakslee replied that staff can work with landowners to use existing landowner data formats and the form can specify that staff will work with landowners for alternate reporting of georeferenced cropping data.

Director Debby Williams asked if this form is for the entire basin or if it is only for those in the CMA. Mr. Blakslee replied this form will be distributed to parcel owners in the entire basin.

**MOTION**

Director Albano made a motion to approve the draft cropping data request form including the addition of a checkbox to indicate residential users do not need to fill out the form. The motion was seconded by Director Debby Williams, a roll call vote was made and passed with 88.9%.

AYES: Albano, Anselm, Bantilan, Burnes, Reely, Vickery, Das Williams, Debby Williams, Wooster, Yurosek  
 NOES: None  
 ABSTAIN: None  
 ABSENT: Scrivner

**11. Discuss and Take Appropriate Action on Plan to Revise Crop Factors on Small Pumper Water Use Reporting Form**

Mr. Blakslee reviewed the potential options for revisions to the crop factors on the small pumper water use reporting form which is included in the Board packet.

SAC Chair Kelly provided SAC feedback on this item which is provided in the SAC report.

Director Albano commented that the Board should not move forward with this effort unless there are landowners who are asking for this change.

Director Vickery said this effort may not be worth it if costs are estimated at \$6,000, but the CBGSA only anticipates receiving \$1,000 annually from small pumpers. Director Das Williams agreed with Director Albano.

The Board provided consensus to not move forward with this effort.

**12. Discuss and Take Appropriate Action to Identify Location of Tamarisk in the River Channel**

Mr. Van Lienden reviewed the cost estimates to digitally map tamarisk in the river channel which are estimated at \$80,000.

SAC Chair Kelly provided the SAC report cost to identify location of tamarisk in the river channel which is provided in the SAC report.

The Board provided consensus to not move forward with this effort.

**REPORT ITEMS****13. Administrative Updates****a. Report of the Executive Director**

Mr. Blakslee provided an update on Hallmark Group progress and next steps and an overview of the CBGSA's expenses and budget-to-actuals, which are included in the Board packet.

**b. Report of the General Counsel**

Nothing to report.

**14. Technical Updates****a. Update on Groundwater Sustainability Plan Activities**

Mr. Van Lienden provided an update on the accomplishments for July and August 2023 which are provided in the Board packet.

**b. Update on Modeled Pumping vs User-Reported Pumping**

Mr. Van Lienden provided an update on the modeled pumping vs user-reported pumping analysis which is provided in the Board packet.

Director Albano asked when the model is updated, will it affect the historical use. Mr. Van Lienden replied that the model will update historic usage with metered data when the model is updated next.

**c. Update on Grant-Funded Projects**

Mr. Van Lienden provided an update on grant-funded projects which is provided in the Board packet.

**d. Update on Active Well Dataset**

Mr. Blakslee provided an update on the active well dataset which is provided in the Board packet.

**e. Update on July 2023 Groundwater Conditions Report**

Mr. Van Lienden provided an update on the July 2023 groundwater conditions report which is provided in the Board packet.

**15. Report of the Ad Hoc Committee**

Nothing to report.

**16. Directors' Forum**

Director Yurosek requested for staff to provide an update on the accounts receivable and consider potential data gaps in the proposed groundwater levels monitoring network.

**17. Public comment for Items Not on the Agenda**

No comments.

**18. Correspondence**

No correspondence.

**19. Closed Session**

The Board adjourned to closed session at 6:00 p.m.

The Board returned from closed session at 6:30 p.m. and no reportable action was taken.

**20. Adjourn**

Chair Bantilan adjourned the meeting at 6:30 p.m.

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BOARD OF DIRECTORS OF THE  
CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY

Chair: \_\_\_\_\_

ATTEST:

Secretary: \_\_\_\_\_

DRAFT



TO: Board of Directors  
Agenda Item No. 7

FROM: Taylor Blakslee, Hallmark Group

DATE: November 1, 2023

SUBJECT: Approval of Payment of Bills for August and September 2023

**Recommended Motion**

Approve payment of the bills for August and September 2023 in the amount of \$317,319.17.

**Discussion**

Consultant invoices for the months of August and September 2023 are provided as Attachment 1 and summarized below.

<b>Expense</b>	<b>August 2023</b>	<b>September 2023</b>	<b>Totals</b>
<b>W&amp;C</b> – Technical support services	\$ 97,119.48	\$149,416.30	\$246,535.78
<b>Hallmark</b> – Executive Director services	\$19,775.00	\$12,316.98	\$32,091.98
<b>USGS</b> – Quarterly Invoice for O&M of two (2) stream gauges	\$0.00	\$13,150.00	\$13,150.00
<b>Klein</b> – Legal services	\$4,462.50	\$9,840.00	\$14,302.50
<b>P&amp;P</b> – Quarterly Groundwater level measurements	\$11,238.91	\$0.00	\$11,238.91
<b>TOTAL</b>	<b>\$132,595.89</b>	<b>\$184,723.28</b>	<b>\$317,319.17</b>

## Attachment 1



## CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY

### PROGRESS REPORT FOR TASK ORDER CB-HG-008

<b>Client Name:</b>	Cuyama Basin Groundwater Sustainability Agency	<b>Agreement Number:</b>	201709-CB-001
<b>Company Name:</b>	HGCPM, Inc. DBA The Hallmark Group	<b>Address:</b>	500 Capitol Mall, Suite 2350 Sacramento, CA 95814
<b>Task Order Number:</b>	CB-HG-008	<b>Report Period:</b>	August 1-31, 2023
<b>Progress Report Number:</b>	54	<b>Project Manager:</b>	Jim Beck
<b>Invoice Number:</b>	2023-CBGSA-08	<b>Invoice Date:</b>	August 31, 2023

### SUMMARY OF WORK PERFORMED

#### Task 1: Board of Directors and Advisory Committee Meetings

- Prepared and finalized SAC presentation for meeting on August 31, 2023.
- Facilitated SAC meeting on August 31, 2023.
- Drafted SAC minutes for meeting on August 31, 2023.

#### Task 2: Consultant Management and GSP Implementation

- Setup technical forum meeting.
- Correspondence with Provost & Pritchard's Jon Vander Schuur regarding monitoring efforts.
- Prepared for and facilitated technical forum meeting on August 21, 2023.
- Review options for identifying tamarisk with Woodard and Curran.
- Developed land use forms with Woodard and Curran.
- Facilitated GSP Key Policy ad hoc on August 23, 2023.
- Coordinate with staff on modeled pumping versus actual pumping.
- Correspondence with Woodard and Curran regarding Land IQ unknown pumpers.

#### Task 3: Financial Information Coordination

- Billing and administration.
- Drafted July progress report.
- Coordinating fiscal year 2022-2023 audit.
- Post fiscal year 2023-2024 budget for variance reporting.
- Processed mail and bank deposits.
- Review budget allocation and financials.
- Facilitated consultant invoices for grant reimbursement.
- Coordinated with landowner on payment for groundwater extraction fee.

#### Task 4: Cuyama Basin GSA Outreach



- Coordinated with Catalyst Group and Woodard and Curran regarding public workshop planning.
- Correspondence with California Department of Water Resources regarding interpretive services for the workshop.

#### DELIVERABLES AND COMPLETED TASKS

- Facilitated SAC meeting on August 31, 2023
- Facilitated technical forum meeting on August 21, 2023.
- Facilitated GSP Key Policy ad hoc on August 23, 2023.

#### PLANNED OBJECTIVES FOR NEXT REPORTING PERIOD

- Implement well registration program.
- Plan for the fall 2023 public workshop.
- Coordinate Fiscal Year audit.

#### SIGNIFICANT ISSUES OR CHALLENGES (IF ANY) AND POTENTIAL RESOLUTIONS

- N/A

**Billed To:**  
**Cuyama Basin GSA**  
 Attn: Jim Beck  
 4900 California Avenue, Ste B  
 Bakersfield, CA 93309

**Please Remit Payment To:**  
**The Hallmark Group**  
 500 Capitol Mall, Ste 2350  
 Sacramento, CA 95814  
 P: (916) 923-1500

**Invoice No.:** 2023-CBGSA-08  
**Date:** August 31, 2023  
**Agreement No.:** 201709-CB-001  
**Task Order:** CB-HG-009

For professional services rendered for the month of August 2023:

Task No.	Task Description	Personnel	Billing Classification	Hours	Rate	Amount
1	Board of Directors Meetings	J. Beck	Executive Director	0.00	\$ 350.00	\$ -
		T. Blasklee	Project Manager	20.50	\$ 200.00	\$ 4,100.00
		J. Montoya	Project Coordinator	16.00	\$ 150.00	\$ 2,400.00
<b>Total Task 1 Labor</b>						<b>\$ 6,500.00</b>
2	Consultant Mgmt and GSP Impl	J. Beck	Executive Director	3.50	\$ 350.00	\$ 1,225.00
		T. Blasklee	Project Manager	21.25	\$ 200.00	\$ 4,250.00
<b>Total Task 2 Labor</b>						<b>\$ 5,475.00</b>
3	Financial Information Coordination	J. Beck	Executive Director	0.00	\$ 350.00	\$ -
		J. Harris	Project Controls	17.00	\$ 200.00	\$ 3,400.00
		T. Blasklee	Project Manager	4.50	\$ 200.00	\$ 900.00
		H. Fuentes	Project Controls Coordinator	0.50	\$ 150.00	\$ 75.00
		J. Montoya	Project Coordinator	2.50	\$ 150.00	\$ 375.00
<b>Total Task 3 Labor</b>						<b>\$ 4,750.00</b>
4	CBGSA Outreach	T. Blasklee	Project Manager	7.50	\$ 200.00	\$ 1,500.00
<b>Total Task 4 Labor</b>						<b>\$ 1,500.00</b>
5	Groundwater Extraction Fee Funding	T. Blasklee	Project Manager	7.25	\$ 200.00	\$ 1,450.00
		J. Montoya	Project Coordinator	0.00	\$ 150.00	\$ -
<b>Total Task 5 Labor</b>						<b>\$ 1,450.00</b>
8	Adjudication Support	T. Blasklee	Project Manager	0.50	\$ 200.00	\$ 100.00
		J. Montoya	Project Coordinator	0.00	\$ 125.00	\$ -
<b>Total Task 8 Labor</b>						<b>\$ 100.00</b>
<b>Total Labor</b>						<b>\$ 19,775.00</b>
Other Direct Costs (ODC)						
<b>Total ODC</b>						<b>\$ -</b>
<b>5% ODC Mark-Up</b>						<b>\$ -</b>
<b>TOTAL AMOUNT DUE THIS INVOICE</b>						<b>\$ 19,775.00</b>

**Maximum Contract Value and Progress Billing**

Sub Task	Contract Value	Amendments/ Change Orders	Total Committed	Previously Billed	Current Billing	Remaining Balance
CB-HG-009	\$ 311,706.00	\$ -	\$ 311,706.00	\$ 16,837.50	\$ 19,775.00	\$ 275,093.50
Other Direct Costs	\$ 5,694.00	\$ -	\$ 5,694.00	\$ -	\$ -	\$ 5,694.00
<b>Total</b>	<b>\$ 317,400.00</b>	<b>\$ -</b>	<b>\$ 317,400.00</b>	<b>\$ 16,837.50</b>	<b>\$ 19,775.00</b>	<b>\$ 280,787.50</b>

# PROVOST & PRITCHARD CONSULTING GROUP

455 W Fir Ave • Clovis, CA 93611 • (559) 449-2700  
www.provostandpritchard.com

Cuyama GSA  
4900 California Ave., Tower B, 2nd Floor  
Bakersfield, CA 93309

September 30, 2023  
Project No: 03930-22-001  
Invoice No: 103949

**Project Name: Cuyama GSA-CBGSA Groundwater Level Monitoring for 2023**

**Client Project #:**

2023 Third Quarter depth to water levels data  
Levels Data deliverable development and submittal  
Follow-up well owner contact regarding task items.  
Project management and client correspondence.  
Mileage and reimbursement of expenses for travel to Cuyama  
Equipment purchase reimbursable for data cable reel

**Professional Services from August 01, 2023 to August 31, 2023**

Phase: LVL Groundwater Level Monitoring

**Labor**

	Hours	Rate	Amount	
Assistant Engineer	1.70	126.00	214.20	
Project Administrator	.90	94.00	84.60	
Associate Envir. Spec	6.50	140.00	910.00	
Totals	9.10		1,208.80	
<b>Total Labor</b>				<b>1,208.80</b>

**Reimbursable Expenses**

Travel & Mileage			102.44	
Per Diem - Lodging			283.95	
Other Direct Reimb Expenses			43.70	
<b>Total Reimbursables</b>			<b>430.09</b>	<b>430.09</b>

**Total this Phase: \$1,638.89**

**Total this Invoice \$1,638.89**

Project 03930-22-001 CBGSA Groundwater Level Monitoring for 2 Invoice 103949

# Billing Backup

Sunday, October 1, 2023

Provost & Pritchard Consulting Group

Invoice 103949 Dated 9/30/2023

10:34:07 PM

Phase: LVL Groundwater Level Monitoring

## Labor

			Hours	Rate	Amount
Assistant Engineer					
1026 - Poire, Luis	8/4/2023		.20	126.00	25.20
1026 - Poire, Luis	8/10/2023		1.50	126.00	189.00
Project Administrator					
1117 - Bravo, Vivian	8/16/2023		.30	94.00	28.20
1117 - Bravo, Vivian	8/17/2023		.10	94.00	9.40
1117 - Bravo, Vivian	8/18/2023		.40	94.00	37.60
1117 - Bravo, Vivian	8/21/2023		.10	94.00	9.40
Associate Envir. Spec					
1154 - Vander Schuur, Jon	8/2/2023		1.50	140.00	210.00
1154 - Vander Schuur, Jon	8/3/2023		1.50	140.00	210.00
1154 - Vander Schuur, Jon	8/4/2023		1.00	140.00	140.00
1154 - Vander Schuur, Jon	8/10/2023		.50	140.00	70.00
1154 - Vander Schuur, Jon	8/11/2023		2.00	140.00	280.00
Totals			9.10		1,208.80
<b>Total Labor</b>					<b>1,208.80</b>

## Reimbursable Expenses

Travel & Mileage					
MI 0000000MLG12 8/31/2023		2018 Nissan Frontier - Bakersfield Pool / 8/23/23 68 miles @ \$0.655 per mile			51.22
MI 0000000MLG12 8/31/2023		2018 Nissan Frontier - Bakersfield Pool / 8/24/23 68 miles @ \$0.655 per mile			51.22
Per Diem - Lodging					
AP 61702 8/7/2023		Business Card (4082) / 7/18/23 Lodging: Louie Poire / Invoice: 4082 Aug 2023, 8/4/2023			283.95
Other Direct Reimb Expenses					
AP 61439 8/9/2023		Amazon Capital Services / 7/5/23 Cord, Hose Real Storage / Invoice: 1YQ6-LNL7-KJG7, 8/1/2023			43.70
<b>Total Reimbursables</b>					<b>430.09</b>

**Total this Phase: \$1,638.89**

**Total this Project: \$1,638.89**

**Total this Report \$1,638.89**

get billed in two parts: \$210.55 today and the rest when he leaves the hotel.



### CHECK / CHARGE REQUEST

REQUESTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAKE CHECK PAYABLE /CHARGE TO: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP CODE: \_\_\_\_\_

CHECK/CHARGE AMOUNT: \_\_\_\_\_

WHAT IS EXPENSE FOR: JOB #: \_\_\_\_\_ PHASE #: \_\_\_\_\_

CHECK	CHARGE	
	DESCRIPTION:	_____
		_____

DATE NEEDED: \_\_\_\_\_ IMMEDIATELY: Yes No

IF CHECK IS BEING DELIVERED IN PERSON, RETURN TO: \_\_\_\_\_

WILL SOMEONE PICK IT UP? Yes No

MAIL: Yes No

IF MAILING ADDRESS IS DIFFERENT, PLEASE COMPLETE BELOW:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

\*\*\*\*\*

### ACCOUNTING DEPARTMENT

VENDOR #: \_\_\_\_\_  
 ACCOUNT #: \_\_\_\_\_  
 #: \_\_\_\_\_  
 #: \_\_\_\_\_

PAY DATE: \_\_\_\_\_  
 AMOUNT \$: \_\_\_\_\_  
 AMOUNT \$: \_\_\_\_\_  
 AMOUNT \$: \_\_\_\_\_

Cuyama Buckhorn  
4923 primero st  
new cuyama , ca 93254

## Check-out receipt

Name: Luis Poire  
Check-in: Monday, Jul 24, 2023  
Check-out: Tuesday, Jul 25, 2023  
Confirmation #: 48032847  
Invoice number: 8016  
Invoice date: 07/25/2023

Unit assignment: 12

Luis Poire  
ask  
ask CA  
United States  
a1hn1uhxom@m.expediapartnercentral.com  
T: 1 661 4874344

Date	Description of services	Cost(USD)
07/24/2023	Unit 12: Deluxe King Suite - Patio - Siteminder - BAR	187.99
07/24/2023	Resort Fee : Resort Fee	25.00
07/25/2023	Restaurant Charge - POS # 8298, Order # 8298 mini bar	5.59
Sub-total		218.58
Processing Fee		9.42
Govt Tax		22.56
STax		1.94
Total		252.50
Jul 18, 2023, MC XXXX 4082		246.91
Jul 25, 2023, MC XXXX 4082		5.59
Amount due (USD)		<b>0.00</b>

Your signature authorizes Cuyama Buckhorn to communicate with you via email and to charge your credit card for the full amount due.

Customer signature: \_\_\_\_\_

There will be a credit card authorization of \$100 per day taken for incidental charges upon the day of check-in.

All rooms are non-smoking (tobacco and marijuana). \$250 cleaning fee will be applied if anyone smokes within a hotel room or on their patio.

We are pleased to offer an array of food & beverage options for meals while you are on property. No outside food or beverages are permitted in public areas. No guestroom or patio cooking is permitted. A \$250 fee will be applied to the credit card on file if unauthorized cooking takes place on our property.

A pet fee of \$30.00 will be applied for the entire stay. \$175 authorization upon check in will be taken for a pet cleaning fee. This fee will be returned if extra cleaning is not needed.

Any damages to property, public spaces, and or rooms due to guest, will be sole responsibility of guest.

Please know that glass and pets are not allowed in pool area.

My signature above acknowledges that I have read and understand the above policies, authorizations and fees that may be applied to my credit card.

**VENDOR NAME:** Amazon

Vendor # A319  
 Invoice # 1YQ6-LNL7-KJG7  
 DESCRIPTION: Visalia - August 2023

Inv. Date: 08/01/23  
 Gross: 551.47

	DATE		JOB #	PHASE #	ACCOUNT #		Tax	DOLLARS
1	7/5/23	Cord, Hose Real Storage	3930-22-001	LVL	6270.1	35.1	8.250%	38.00
2	7/9/23	USB-C Wired Connection Mouse	000GO-23-100	007	7000.4	47.2	8.500%	51.21
3	7/16/23	Ethernet cable nails	000GO-23-100	007	8510.1	8.99	8.500%	9.75
4	7/16/23	Ethernet adaptor	000GO-23-100	007	7000.8	9.5	8.500%	10.31
5	7/16/23	Wireless headset	000GO-23-100	007	7000.4	45	8.500%	48.83
6	7/19/23	OS: Kitchen Supplies: Heavy duty bowls	000GO-23-100	007	8510.1	24.49	8.500%	26.57
7	7/19/23	Retractable gel pens	000GO-23-100	007	8510.1	45.99	8.500%	49.90
8	7/19/23	Accordian File Organizer	000GO-23-100	007	8510.1	14.78	8.500%	16.04
9	7/19/23	OS: Kitchen Supplies: Trash bags	000GO-23-100	007	8510.1	39.99	8.500%	43.39
10	7/19/23	Retractable gel pens	000GO-23-100	007	8510.1	\$ 45.99	8.500%	49.90
11	7/20/23	#10 security envelopes	000GO-23-100	007	8510.1	\$ 87.12	8.500%	94.53
12	7/25/23	OS: Kitchen Supplies: Trash bags	000GO-23-100	007	8510.1	\$ 44.99	8.500%	48.81
13	7/25/23	OS: Kitchen Supplies: Trash bags	000GO-23-100	007	8510.1	\$ 49.99	8.500%	54.49
14	7/30/23	Mouse pad with wrist support	000GO-23-100	007	7000.4	\$ 11.99	8.500%	13.01
15		Promos	000GO-23-100	007	8510.1	\$ (3.00)	8.500%	(3.26)
								551.47



Invoice  
Invoice # 1YQ6-LNL7-KJG7 | August 01, 2023

For customer support, visit [www.amazon.com/contact-us](http://www.amazon.com/contact-us).

## Invoice summary *Due 30 days from receipt of invoice*

Item subtotal before tax	\$ 511.12
Shipping & handling	\$ 0.00
Promos & discounts	(\$ 3.00)
<b>Total before tax</b>	<b>\$ 508.12</b>
<b>Tax</b>	<b>\$ 43.35</b>
<b>Amount due</b>	<b>\$ 551.47 USD</b>

**Billing period** 7/1/23 to 7/31/23  
**Account #** A1365INP6Z3OWS  
**Payment terms** Net 30

### Registered business name

Provost & Pritchard Consulting Group

### Bill to

Provost & Pritchard Consulting Group  
455 W FIR AVE  
CLOVIS, CA 93611

### Group Name

Visalia Admin

## Pay by

### Electronic funds transfer (EFT/ACH/Wire)

**Account name** Amazon Capital Services, Inc.  
**Bank name** Wells Fargo Bank  
**Bank routing # (ABA)** 121000248  
**Bank account # (DDA)** 41630000831441755  
**SWIFT code (wire transfer)** WFBUS6S

### Check

Amazon Capital Services  
PO Box 035184  
Seattle, WA 98124-5184

Include Amazon invoice number(s) in the descriptive field of your electronic funds transfer payment, or  
Email [ar-businessinvoicing@amazon.com](mailto:ar-businessinvoicing@amazon.com) to submit your remittance detail.

## Invoice details

#	Ship date	PO #	Description	Qty	Unit price	Item subtotal before tax	Tax
1	7/5/23	03930-22-001 LVL	Woods E103 E-103 Wheel, Holds Up to 150 16/3 Extension 125 Feet of 14/3 Gauge Cord, Holiday, Rope, Hose Reel Storage and Light Wire, Heavy Duty Plasti	2	\$17.55	\$35.10	8.250%
ASIN: B000E8SWQM Sold by: Amazon.com Services LLC Order # 113-9910246-8599450 Order date: July 05, 2023							



#	Ship date	PO #	Description	Qty	Unit price	Item subtotal before tax	Tax
2	7/9/23	Go (Soo Ho ) Supplies	Lenovo 540 USB-C Wired Connection Computer Mouse for PC, Laptop, Computer with Windows or Chrome OS - Ambidextrous Design - 4 Button - Compact Size - ASIN: B09LRDSTZC Sold by: Amazon.com Services LLC Order # 113-3238409-8835406 Order date: July 06, 2023	4	\$11.80	\$47.20	8.500%
3	7/16/23	GO Soo Ho	Darller 200 Pack Nail in Cable Clips Ethernet Cable Nails Tacks Clips 7mm for Cat6 Cable - White ASIN: B071WW5M69 Sold by: Long Jiang Order # 112-9530810-4475419 Order date: July 13, 2023	1	\$8.99	\$8.99	8.500%
4	7/16/23	GO Soo Ho	Duttek Ethernet Adapter 90 Degree, Right Angled RJ45 Male to Female Ethernet Extender Adapter, Cat5e/Cat6 RJ45 Ethernet, for Modem, Router, PC, Networ ASIN: B08RRRL4W4 Sold by: Fen Yang Order # 112-2999263-0308248 Order date: July 13, 2023	1	\$9.50	\$9.50	8.500%
5	7/16/23	GO Soo Ho	Wireless Headset,Trucker Bluetooth Headset with Microphone Noise Canceling & USB Dongle, Wireless Headphones with Mic Mute for Cell Phone Call Office ASIN: B0BW88VHDM Sold by: Shenzhen Voison e-buisnesss company limited Order # 112-2999263-0308248 Order date: July 13, 2023	1	\$45.00	\$45.00	8.500%
6	7/19/23	Go (Soo Ho ) Supplies	Vplus 200 Pack 12 OZ Paper Bowls, Disposable Compostable Bowls Bulk, Eco-friendly Bagasse Bowls, Heavy-duty Bowls Perfect for Milk Cereals, Snacks, Sa ASIN: B09W8J3H51 Sold by: hangzhouduoqiandianzishangwuyouxiangongsi Order # 113-3132458-6012233 Order date: July 19, 2023	1	\$24.49	\$24.49	8.500%

#	Ship date	PO #	Description	Qty	Unit price	Item subtotal before tax	Tax
7	7/19/23	Go (Soo Ho ) Supplies	PILOT 2724465 G2 Retractable Gel Pens Bold Point Black Ink 36/Pack (84095) ASIN: B07FW8DG5C Sold by: Amazon.com Services LLC Order # 113-3132458-6012233 Order date: July 19, 2023	1	\$45.99	\$45.99	8.500%
8	7/19/23	Go (Soo Ho ) Supplies	2 Pack 13 Pockets Accordion File Organizer, A6 Plastic Coupon Organizer Wallet Mini Expanding File Folder for Cards, Coupons, Receipt, Tax Item ASIN: B08SQFG7CK Sold by: Shenzhenshi Debaiyi Technology Co., Ltd. Order # 113-3132458-6012233 Order date: July 19, 2023	1	\$14.78	\$14.78	8.500%
9	7/19/23	Go (Soo Ho ) Supplies	Top Knot Bags 33 Gallon Garbage Trash Bag 33X40" Clear 150 Count Can Liner Bulk 30 Gallon 31 Gallon 32 Gallon 34 Gallon 35 Gallon Made in USA ASIN: B0B383XDT8 Sold by: Golden Trading Solutions Order # 113-3132458-6012233 Order date: July 19, 2023	1	\$39.99	\$39.99	8.500%
10	7/19/23	Go (Soo Ho ) Supplies	PILOT G2 Premium Gel Pen Convenience Pack, Retractable, Fine 0.7 Mm, Blue Ink, Blue Barrel, 36/pack ASIN: B01MDV83H9 Sold by: Staples, Inc. Order # 113-9737335-8135431 Order date: July 19, 2023	1	\$45.99	\$45.99	8.500%
11	7/20/23	Go (Soo Ho ) Supplies	Columbian #10 Security Envelopes, 500/Box, No Window, 4-1/8 x 9-1/2 Inches, Release & Seal Self Seal, SimplySafe Tamper Evident, White (COLO180) ASIN: B08TRPZK1B Sold by: Amazon.com Services LLC Order # 113-8722683-6762614 Order date: July 20, 2023	4	\$21.78	\$87.12	8.500%

#	Ship date	PO #	Description	Qty	Unit price	Item subtotal before tax	Tax
12	7/25/23	Go (Soo Ho ) Supplies	Reli. SuperValue 6-10 Gallon Trash Bags   1000 Count Bulk   Small   Black Multi-Use Garbage Bags ASIN: B07H8NMRN7 Sold by: RL Co. LLC Order # 113-2580939-7421869 Order date: July 24, 2023	1	\$44.99	\$44.99	8.500%
13	7/25/23	Go (Soo Ho ) Supplies	Reli. Easy Grab 55-60 Gallon Trash Bags   150 Count   Made in USA   Heavy Duty   Bulk   SuperValue   Black Multi-Use Garbage Bags ASIN: B07C4BMSH4 Sold by: RL Co. LLC Order # 113-2580939-7421869 Order date: July 24, 2023	1	\$49.99	\$49.99	8.500%
14	7/30/23	Go (Soo Ho ) Supplies	DOOKE Ergonomic Mouse Pad with Wrist Support, Cute Mouse Pads with Non-Slip PU Base for Home Office Working Studying Easy Typing & Pain Relief Green F ASIN: B09C3JHG52 Sold by: shenzhenshiyuchengwangluokejiyouxiangongsi Order # 113-7023250-3332228 Order date: July 28, 2023	1	\$11.99	\$11.99	8.500%
15			Promotions & discounts			(\$3.00)	8.500%
						Total before tax	\$508.12
						Tax	\$43.35
						<b>Amount due</b>	<b>\$551.47</b>

**FAQs****How is tax calculated?**Visit [https://www.amazon.com/gp/help/customer/display.html/ref=hp\\_leftv4\\_sib?ie=UTF8&nodeId=202036190](https://www.amazon.com/gp/help/customer/display.html/ref=hp_leftv4_sib?ie=UTF8&nodeId=202036190)**How are digital products and services taxed?**Visit [https://www.amazon.com/gp/help/customer/display.html/ref=hp\\_leftv4\\_sib?ie=UTF8&nodeId=202074670](https://www.amazon.com/gp/help/customer/display.html/ref=hp_leftv4_sib?ie=UTF8&nodeId=202074670)

# PROVOST & PRITCHARD CONSULTING GROUP

455 W Fir Ave • Clovis, CA 93611 • (559) 449-2700  
www.provostandpritchard.com

Taylor Blakslee  
Cuyama GSA  
4900 California Ave., Tower B, 2nd Floor  
Bakersfield, CA 93309

September 30, 2023  
Project No: 03930-23-001  
Invoice No: 103950

**Project Name: Groundwater Level Monitoring (WY 2024)**

**Client Project #:**

**Professional Services from August 01, 2023 to August 31, 2023**

Phase: QLT Groundwater Quality Monitoring

**Labor**

	Hours	Rate	Amount	
Assistant Engineer	16.50	126.00	2,079.00	
Associate Envir. Spec	47.10	140.00	6,594.00	
Travel Time	5.50	80.00	440.00	
Totals	69.10		9,113.00	
<b>Total Labor</b>				<b>9,113.00</b>

**Reimbursable Expenses**

Travel & Mileage			454.96	
Other Direct Reimb Expenses			32.06	
<b>Total Reimbursables</b>			<b>487.02</b>	<b>487.02</b>

**Total this Phase: \$9,600.02**

**Total this Invoice \$9,600.02**

Project 03930-23-001 Groundwater Level Monitoring (WY 2024) Invoice 103950

# Billing Backup

Thursday, October 12, 2023

Provost & Pritchard Consulting Group

Invoice 103950 Dated 9/30/2023

12:08:09 PM

Phase: QLT Groundwater Quality Monitoring

## Labor

			Hours	Rate	Amount
Assistant Engineer					
1026 - Poire, Luis	8/14/2023		.20	126.00	25.20
1026 - Poire, Luis	8/22/2023		.30	126.00	37.80
1026 - Poire, Luis	8/23/2023		10.00	126.00	1,260.00
1026 - Poire, Luis	8/24/2023		6.00	126.00	756.00
Associate Envir. Spec					
1154 - Vander Schuur, Jon	8/1/2023		4.50	140.00	630.00
1154 - Vander Schuur, Jon	8/2/2023		1.00	140.00	140.00
1154 - Vander Schuur, Jon	8/4/2023		2.00	140.00	280.00
1154 - Vander Schuur, Jon	8/7/2023		2.00	140.00	280.00
1154 - Vander Schuur, Jon	8/8/2023		2.00	140.00	280.00
1154 - Vander Schuur, Jon	8/11/2023		1.00	140.00	140.00
1154 - Vander Schuur, Jon	8/15/2023		2.50	140.00	350.00
1154 - Vander Schuur, Jon	8/16/2023		4.00	140.00	560.00
1154 - Vander Schuur, Jon	8/18/2023		3.30	140.00	462.00
1154 - Vander Schuur, Jon	8/22/2023		1.50	140.00	210.00
1154 - Vander Schuur, Jon	8/22/2023		.80	140.00	112.00
1154 - Vander Schuur, Jon	8/23/2023		10.00	140.00	1,400.00
1154 - Vander Schuur, Jon	8/24/2023		8.00	140.00	1,120.00
1154 - Vander Schuur, Jon	8/25/2023		1.50	140.00	210.00
1154 - Vander Schuur, Jon	8/25/2023		1.50	140.00	210.00
1154 - Vander Schuur, Jon	8/30/2023		1.50	140.00	210.00
Travel Time					
40 - Vander Schuur, Jon	8/22/2023		2.00	80.00	160.00
40 - Vander Schuur, Jon	8/23/2023		1.00	80.00	80.00
40 - Vander Schuur, Jon	8/24/2023		2.50	80.00	200.00
Totals			69.10		9,113.00
<b>Total Labor</b>					<b>9,113.00</b>

## Reimbursable Expenses

### Travel & Mileage

MI 0000000MLG17 8/31/2023	2019 Dodge Ram - Visalia Pool / 8/22/23 110 miles @ \$0.655 per mile	82.86
MI 0000000MLG17 8/31/2023	2019 Dodge Ram - Visalia Pool / 8/23/23 210 miles @ \$0.655 per mile	158.18
MI 0000000MLG17 8/31/2023	2019 Dodge Ram - Visalia Pool / 8/24/23 284 miles @ \$0.655 per mile	213.92

### Other Direct Reimb Expenses

EX 000000001829 8/23/2023	Poire, Luis / Hotel Meal / Meal for dinner at hotel	32.06
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### Total Reimbursables

**487.02**

**Total this Phase: \$9,600.02**

**Total this Project: \$9,600.02**

**Total this Report \$9,600.02**

Customer Copy

Check: 220702  
Card Type Visa  
Card Number \*\*\*\*\*8619  
Auth Code 07688D  
Expiration Date \*\*/\*\*

Amount \$17.88

Tip: 10.00

Total: 27.88

## Progress Report



---

### Cuyama Basin Groundwater Sustainability Plan Development

**Subject:** August 2023 Progress Report

Jim Beck, Executive Director,

**Prepared for:** Cuyama Basin Groundwater Sustainability Agency (CBGSA)

**Prepared by:** Micah Eggleton, Woodard & Curran

**Reviewed by:** Brian Van Lienden, Woodard & Curran

**Date:** September 20, 2023

**Project No.:** 0011078.01

---

This progress report summarizes the work performed and project status for the period of July 29, 2023 through August 25, 2023 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 11, issued by the CBGSA on May 2, 2023. Work previously authorized on Task Orders 1 through 10 are complete.

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 Table 1.

**Table 1: Summary of Task/Deliverables Status for Task Order 11**

<b>Task</b>	<b>Work Completed During the Reporting Period</b>	<b>Percent Complete</b>	<b>Work Scheduled for Next Period</b>
<b>Task 54: FY23-24 Stakeholder/Board and Outreach Engagement Support</b>	<ul style="list-style-type: none"> <li>• Prepare for and participate in ad-hoc calls</li> <li>• Prepare materials for SAC/Board meeting and packet</li> <li>• Participate in SAC meeting on August 31</li> <li>• Prepare for public workshop in October</li> <li>• Updates to GSA website</li> </ul>	17%	<ul style="list-style-type: none"> <li>• Participation in future ad-hoc calls</li> <li>• Preparation for and participation in future public workshops, CBGSA Board and SAC meetings</li> </ul>
<b>Task 55: FY23-24 Grant Administration</b>	<ul style="list-style-type: none"> <li>• Coordination, budget and schedule management related to grant tasks</li> <li>• Preparation of 4<sup>th</sup> grant invoice</li> </ul>	17%	<ul style="list-style-type: none"> <li>• Finalize fourth grant invoice and submit to DWR</li> <li>• Further grant administration and invoicing</li> </ul>
<b>Task 56: FY23-24 Ongoing Monitoring and Data Management Support</b>	<ul style="list-style-type: none"> <li>• Program management, coordination and data management related to monitoring activities</li> <li>• Uploading data to DMS</li> <li>• Prepare permit applications and landowner agreements for well site locations</li> </ul>	3%	<ul style="list-style-type: none"> <li>• Program management, coordination and data management related to monitoring activities</li> <li>• Continue preparation of permits and agreements for well and piezometer locations</li> <li>• Continued coordination with drilling subconsultant</li> </ul>
<b>Task 57: FY23-24 Project and Management Action Implementation</b>	<ul style="list-style-type: none"> <li>• Performed updates to model data for CBWRM updates</li> <li>• Continued review of modeled versus actual pumping data in 2022 and prepared presentation materials</li> <li>• Prepared materials for Tech Forum discussion</li> <li>• Data collection for basin water rights analysis</li> <li>• Perform updates to active well and monitoring well datasets</li> <li>• Develop potential future approaches for management action implementation</li> </ul>	15%	<ul style="list-style-type: none"> <li>• Ongoing PMA implementation support including analysis and material preparation</li> <li>• Perform basin model update</li> </ul>



Cuyama Basin Groundwater Sustainability Development  
August 2023 Progress Report

Task	Work Completed During the Reporting Period	Percent Complete	Work Scheduled for Next Period
<b>Task 58: FY23-24 GSP Implementation, Outreach, &amp; Compliance Activities</b>	<ul style="list-style-type: none"> <li>• Coordination among GSA Board, staff and stakeholders</li> <li>• Ongoing budget tracking, schedule management, and quality assurance/quality control of project implementation activities</li> <li>• Review monitoring data and develop Groundwater Conditions report</li> <li>• Investigate potential approaches for identifying tamarisk in basin</li> </ul>	16%	<ul style="list-style-type: none"> <li>• Ongoing support for GSP implementation, outreach and compliance activities</li> </ul>
<b>Task 59: Prepare Five Year Update</b>	<ul style="list-style-type: none"> <li>• Reviewed monitoring data and monitoring wells to develop proposed revisions to monitoring well network</li> <li>• Develop potential improvements to water budget computations in GSP</li> <li>• Reviewed hydrogeologic and groundwater conditions information to assess need for updating GSP</li> <li>• Develop options for updates to pumping allocations and sustainability criteria for Board consideration</li> </ul>	15%	<ul style="list-style-type: none"> <li>• Continued review of data relevant to the GSP and development of potential technical updates</li> <li>• Continued update and development of GSP approaches for Board consideration</li> </ul>
<b>Task 60: FY23-24 Improve Understanding of Basin Water Use</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>	0%	<ul style="list-style-type: none"> <li>• Continued support for weather station, river channel survey and land use project implementation</li> </ul>
<b>Task 61: FY23-24 Preparation of Grant Proposal</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>	0%	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Task 62: Perform Fault Investigation</b>	<ul style="list-style-type: none"> <li>• Planning and scoping of fault investigations activities, including coordination with potential subconsultants</li> <li>•</li> </ul>	3%	<ul style="list-style-type: none"> <li>• Perform planning activities for fault investigation</li> </ul>

Task	Work Completed During the Reporting Period	Percent Complete	Work Scheduled for Next Period
<b>Task 63.1: Support for DWR Technical Support Services</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	0%	<ul style="list-style-type: none"> <li>Support DWR TSS activities as needed</li> </ul>
<b>Task 63.2: Well Permit Review</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	5%	<ul style="list-style-type: none"> <li>Additional well permit reviews as requested</li> </ul>
<b>Task 63.3: Website Redesign</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	0%	<ul style="list-style-type: none"> <li>None</li> </ul>

## 2 Budget Status

Table 2 shows the percent spent for each task under Task Order 11 as of August 25, 2023. 10% of the available Task Order 11 budget has been expended \$238,646.46 out of \$2,436,117).

**Table 2: Budget Status for Task Order 11**

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
<b>54</b>	\$153,530.00	\$12,076.80	\$10,419.25	\$22,496.05	\$131,033.95	15%
<b>55</b>	\$99,940.00	\$7,807.50	\$7,720.00	\$15,527.50	\$84,412.50	16%
<b>56</b>	\$323,350.00	\$8,514.33	\$0.00	\$8,514.33	\$314,835.67	3%
<b>57</b>	\$541,220.00	\$51,019.74	\$19,085.00	\$70,104.74	\$471,115.26	13%
<b>58</b>	\$114,980.00	\$8,466.25	\$10,177.50	\$18,643.75	\$96,336.25	16%
<b>59</b>	\$688,500.00	\$42,673.61	\$44,481.48	\$87,155.09	\$601,344.91	13%
<b>60</b>	\$101,892.00	\$0.00	\$0.00	\$0.00	\$101,892.00	0%
<b>61</b>	\$41,980.00	\$0.00	\$0.00	\$0.00	\$41,980.00	0%
<b>62</b>	\$329,730.00	\$10,633.75	\$5,236.25	\$15,870.00	\$313,860.00	5%
<b>63.1</b>	\$20,050.00	\$0.00	\$0.00	\$0.00	\$20,050.00	0%
<b>63.2</b>	\$12,030.00	\$335.00	\$0.00	\$335.00	\$11,695.00	3%
<b>63.3</b>	\$8,915.00	\$0.00	\$0.00	\$0.00	\$8,915.00	0%
<b>Total</b>	<b>\$2,436,117.00</b>	<b>\$141,526.98</b>	<b>\$97,119.48</b>	<b>\$238,646.46</b>	<b>\$2,197,470.54</b>	<b>10%</b>

## 3 Schedule Status

The project is on schedule. Work authorized under Task Orders 1 through 10 is complete.

## 4 Outstanding Issues to be Coordinated

None



**Remit to:** T 800.426.4262  
 PO Box 55008 T 207.774.2112  
 Boston, MA 02205-5008 F 207.774.6635

# INVOICE

TD BANK  
**Electronic Transfer:**  
 ⑆ 211274450 ⑆ 2427662596 ⑆\*

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

September 21, 2023  
 Project No: 0011078.01  
 Invoice No: 224509

Project 0011078.01 CUYAMA GSP

**Professional Services for the period ending August 25, 2023**

Phase 054 FY 23/24 STAKEHOLDER/BOARD AND OUTREACH ENGAGEMENT SUPPORT

**Professional Personnel**

	<b>Hours</b>	<b>Rate</b>	<b>Amount</b>
Designer			
Fox, Adam	.50	200.00	100.00
Senior Project Manager			
Van Lienden, Brian	19.50	335.00	6,532.50
Totals	20.00		6,632.50
<b>Labor Total</b>			<b>6,632.50</b>

**Consultant**

Sub - Consultant Miscellaneous			
8/25/2023 THE CATALYST GROUP	The Catalyst Group Inv# 803		3,442.50
<b>Consultant Total</b>	<b>1.1 times</b>	<b>3,442.50</b>	<b>3,786.75</b>
	<b>Total this Phase</b>		<b>\$10,419.25</b>

Phase 055 FY 23/24 GRANT ADMIN

**Professional Personnel**

	<b>Hours</b>	<b>Rate</b>	<b>Amount</b>
Planner 3			
Valenzuela, George	21.50	250.00	5,375.00

Project	0011078.01	CUYAMA GSP		Invoice	224509
	Senior Project Manager				
	Van Lienden, Brian		7.00	335.00	2,345.00
	Totals		28.50		7,720.00
	<b>Labor Total</b>				<b>7,720.00</b>
	<b>Total this Phase</b>				<b>\$7,720.00</b>

Phase 057 FY 23/24 PROJECT & MANAGEMENT ACTION IMPLEMENTATION

#### Professional Personnel

	Hours	Rate	Amount	
Engineer 1				
Hunt, Devin	3.00	200.00	600.00	
Project Assistant				
Miller, Annette	.50	130.00	65.00	
Sentz-Casas, Christine	1.00	130.00	130.00	
Project Planner 1				
Eggleton, Charles	20.75	265.00	5,498.75	
O'Callaghan, Ariel	2.75	265.00	728.75	
Senior Project Manager				
Van Lienden, Brian	9.50	335.00	3,182.50	
Technical Manager 1				
Ceyhan, Mahmut	25.00	300.00	7,500.00	
Senior Technical Leader				
Taghavi, Ali	4.00	345.00	1,380.00	
Totals	66.50		19,085.00	
<b>Labor Total</b>			<b>19,085.00</b>	
	<b>Total this Phase</b>			<b>\$19,085.00</b>

Phase 058 FY 23/24 GSP IMPLEMENTATION, OUTREACH, AND COMPLIANCE ACTIVITIES

#### Professional Personnel

	Hours	Rate	Amount
Engineer 1			
Camille, Adrien	22.00	200.00	4,400.00
Project Manager 1			
Lucy, Caleb	3.75	300.00	1,125.00

Project	0011078.01	CUYAMA GSP		Invoice	224509
Project Planner 1					
	Eggleton, Charles		12.50	265.00	3,312.50
Senior Project Manager					
	Van Lienden, Brian		4.00	335.00	1,340.00
	Totals		42.25		10,177.50
	<b>Labor Total</b>				<b>10,177.50</b>
				<b>Total this Phase</b>	<b>\$10,177.50</b>

Phase 059 FY 23/24 PREPARE 5 YEAR GSP UPDATE

#### Professional Personnel

		Hours	Rate	Amount
Designer				
	Li Guan, Javier	18.00	200.00	3,600.00
Engineer 1				
	Camille, Adrien	7.75	200.00	1,550.00
	Hunt, Devin	23.25	200.00	4,650.00
Engineer 2				
	Ebron, Anthony	3.00	225.00	675.00
Engineer 3				
	Ebron, Anthony	.50	250.00	125.00
Project Assistant				
	Hodgens, Jennifer	1.25	130.00	162.50
Project Engineer 1				
	Lucy, Caleb	6.00	265.00	1,590.00
Project Planner 1				
	O'Callaghan, Ariel	50.00	265.00	13,250.00
Senior Project Manager				
	Strandberg, James	27.25	335.00	9,128.75
	Van Lienden, Brian	23.50	335.00	7,872.50
Senior Technical Leader				
	Taghavi, Ali	4.00	345.00	1,380.00
	Totals	164.50		43,983.75
	<b>Labor Total</b>			<b>43,983.75</b>

Project	0011078.01	CUYAMA GSP	Invoice	224509
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**Reimbursable**

## Application Fees &amp; Expenses

8/25/2023	COUNTY OF SANTA BARBARA PUBLIC WORKS TRANSPORTATION	0011078.01 Encroah Permit Fee	364.00
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## Meals non-deductible

5/30/2023	Strandberg, James	Project site meeting	61.41
5/31/2023	Strandberg, James	Project site meeting	27.07

<b>Reimbursable Total</b>	<b>1.1 times</b>	<b>452.48</b>	<b>497.73</b>
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<b>Total this Phase</b>	<b>\$44,481.48</b>
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Phase	062	FY 23/24 PERFORM FAULT INVESTIGATION
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**Professional Personnel**

	Hours	Rate	Amount
Engineer 1			
Camille, Adrien	19.00	200.00	3,800.00
Senior Project Manager			
Strandberg, James	3.00	335.00	1,005.00
Senior Technical Leader			
House, Jason	1.25	345.00	431.25
Totals	23.25		5,236.25

<b>Labor Total</b>			<b>5,236.25</b>
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<b>Total this Phase</b>	<b>\$5,236.25</b>
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<b>Total this Invoice</b>	<b>\$97,119.48</b>
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**Outstanding Invoices**

Number	Date	Balance
221891	7/20/2023	77,479.49
223398	8/24/2023	141,191.98
<b>Total</b>		<b>218,671.47</b>

Project Summary	Current Fee	Previous Fee	Total
	<b>97,119.48</b>	<b>4,817,521.56</b>	<b>4,914,641.04</b>

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Project      0011078.01      CUYAMA GSP      Invoice      224509

Approved by:   
\_\_\_\_\_  
Brian Van Lienden  
Senior Project Manager  
Woodard & Curran

**The Catalyst Group, Inc.**  
 25 Brushwood Lane  
 Greenbrae, CA 94904  
 +1 4155242080  
 Charles@CatalystGroupCA.com  
 www.CatalystGroupCA.com

**BILL TO**

Brian Van Lienden  
 Woodard & Curran  
 801 T Street  
 Sacramento, CA 95811

**INVOICE 803****DATE** 09/06/2023 **TERMS** Net 90**DUE DATE** 12/05/2023

DATE	ACCOUNT SUMMARY	AMOUNT
08/04/2023	Balance Forward	1,938.75
	Other payments and credits after 08/04/2023 through 09/05/2023	-493.75
09/06/2023	Other invoices from this date	0.00
	New charges (details below)	3,442.50
	<b>Total Amount Due</b>	<b>4,887.50</b>

DATE	ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
08/01/2023	<b>Task 10-Pope</b>	Progress report	0:15	170.00	42.50
08/09/2023	<b>Task 10-Pope</b>	Planning call	1:15	170.00	212.50
08/09/2023	<b>Task 10-Gardiner</b>	Workshop planning	1:00	225.00	225.00
08/17/2023	<b>Task 10-Gardiner</b>	Workshop planning	0:45	225.00	168.75
08/21/2023	<b>Task 10-Pope</b>	Event plan	0:30	170.00	85.00
08/22/2023	<b>Task 10-Pope</b>	Workshop planning meeting	1:30	170.00	255.00
08/22/2023	<b>Task 10-Gardiner</b>	Workshop planning	1:00	225.00	225.00
08/23/2023	<b>Task 10-Pope</b>	emails, Board review	0:45	170.00	127.50
08/23/2023	<b>Task 10-Gardiner</b>	Scope	0:30	225.00	112.50
08/24/2023	<b>Task 10-Gardiner</b>	SAC slide	0:30	225.00	112.50
08/25/2023	<b>Task 10-Gardiner</b>	Stantec call	0:45	225.00	168.75
08/30/2023	<b>Task 10-Pope</b>	Event plan	0:45	170.00	127.50
08/31/2023	<b>Task 10-Gardiner</b>	SAC meeting	4:00	225.00	900.00
08/31/2023	<b>Task 10-Pope</b>	Meeting flyer, SAC	4:00	170.00	680.00

**TOTAL OF NEW CHARGES** 3,442.50



# CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY

## PROGRESS REPORT FOR TASK ORDER CB-HG-008

<b>Client Name:</b>	Cuyama Basin Groundwater Sustainability Agency	<b>Agreement Number:</b>	201709-CB-001
<b>Company Name:</b>	HGCPM, Inc. DBA The Hallmark Group	<b>Address:</b>	500 Capitol Mall, Suite 2350 Sacramento, CA 95814
<b>Task Order Number:</b>	CB-HG-008	<b>Report Period:</b>	September 1-30, 2023
<b>Progress Report Number:</b>	55	<b>Project Manager:</b>	Jim Beck
<b>Invoice Number:</b>	2023-CBGSA-09	<b>Invoice Date:</b>	September 30, 2023

## SUMMARY OF WORK PERFORMED

### Task 1: Board of Directors and Advisory Committee Meetings

- Finalized and distributed postcard for public workshop.
- Prepared for and facilitated Board meeting on September 6, 2023.
- Logistics for public workshop.

### Task 2: Consultant Management and GSP Implementation

- Reviewed and edited Cuyama technical forum presentation.

### Task 3: Financial Information Coordination

- Billing and administration.
- Review June and July invoices.
- Drafted August progress report.
- Coordinating fiscal year 2022-2023 audit.
- Processed mail and bank deposits.
- Correspondence with landowner regarding payment for Groundwater Extraction Fees.
- Correspondence with United States Geological Survey regarding contract considerations.

### Task 4: Cuyama Basin GSA Outreach

- Coordinated with Catalyst Group and Woodard and Curran regarding public workshop.
- Participated in AP media reporter interview on September 13, 2023.
- Correspondence with stakeholder regarding potential for implementing recharge basins.

**DELIVERABLES AND COMPLETED TASKS**

- Facilitated Board meeting on September 6, 2023.
- Participated in AP media reporter interview on September 13, 2023.

**PLANNED OBJECTIVES FOR NEXT REPORTING PERIOD**

- Distribute crop data survey to landowners.
- Plan for fall 2023 public workshop.
- Coordinate Fiscal Year audit.

**SIGNIFICANT ISSUES OR CHALLENGES (IF ANY) AND POTENTIAL RESOLUTIONS**

- N/A

**Billed To:**  
**Cuyama Basin GSA**  
 Attn: Jim Beck  
 4900 California Avenue, Ste B  
 Bakersfield, CA 93309

**Please Remit Payment To:**  
**The Hallmark Group**  
 500 Capitol Mall, Ste 2350  
 Sacramento, CA 95814  
 P: (916) 923-1500

**Invoice No.:** 2023-CBGSA-09  
**Date:** September 30, 2023  
**Agreement No.:** 201709-CB-001  
**Task Order:** CB-HG-009

For professional services rendered for the month of September 2023:

Task No.	Task Description	Personnel	Billing Classification	Hours	Rate	Amount
1	Board of Directors Meetings	J. Beck	Executive Director	3.25	\$ 350.00	\$ 1,137.50
		T. Blasklee	Project Manager	12.50	\$ 200.00	\$ 2,500.00
		J. Montoya	Project Coordinator	12.75	\$ 150.00	\$ 1,912.50
<b>Total Task 1 Labor</b>						<b>\$ 5,550.00</b>
2	Consultant Mgmt and GSP Impl	J. Beck	Executive Director	2.50	\$ 350.00	\$ 875.00
		T. Blasklee	Project Manager	8.75	\$ 200.00	\$ 1,750.00
<b>Total Task 2 Labor</b>						<b>\$ 2,625.00</b>
3	Financial Information Coordination	J. Beck	Executive Director	0.00	\$ 350.00	\$ -
		J. Harris	Project Controls	4.00	\$ 200.00	\$ 800.00
		T. Blasklee	Project Manager	5.00	\$ 200.00	\$ 1,000.00
		H. Fuentes	Project Controls Coordinator	0.50	\$ 150.00	\$ 75.00
		J. Montoya	Project Coordinator	0.00	\$ 150.00	\$ -
<b>Total Task 3 Labor</b>						<b>\$ 1,875.00</b>
4	CBGSA Outreach	T. Blasklee	Project Manager	9.00	\$ 200.00	\$ 1,800.00
<b>Total Task 4 Labor</b>						<b>\$ 1,800.00</b>
5	Groundwater Extraction Fee Funding	T. Blasklee	Project Manager	0.50	\$ 200.00	\$ 100.00
		J. Montoya	Project Coordinator	0.00	\$ 150.00	\$ -
<b>Total Task 5 Labor</b>						<b>\$ 100.00</b>
8	Adjudication Support	T. Blasklee	Project Manager	0.50	\$ 200.00	\$ 100.00
		J. Montoya	Project Coordinator	0.00	\$ 125.00	\$ -
<b>Total Task 8 Labor</b>						<b>\$ 100.00</b>
<b>Total Labor</b>						<b>\$ 12,050.00</b>
Other Direct Costs (ODC)		July Mileage (T. Blasklee 258.8 mi)				\$ 169.51
		August Mileage (T. Blasklee 129.4 mi)				\$ 84.76
<b>Total ODC</b>						<b>\$ 254.27</b>
<b>5% ODC Mark-Up</b>						<b>\$ 12.71</b>
<b>TOTAL AMOUNT DUE THIS INVOICE</b>						<b>\$ 12,316.98</b>

**Maximum Contract Value and Progress Billing**

Sub Task	Contract Value	Amendments/ Change Orders	Total Committed	Previously Billed	Current Billing	Remaining Balance
CB-HG-009	\$ 311,706.00	\$ -	\$ 311,706.00	\$ 36,612.50	\$ 12,050.00	\$ 263,043.50
Other Direct Costs	\$ 5,694.00	\$ -	\$ 5,694.00	\$ -	\$ 266.98	\$ 5,427.02
<b>Total</b>	<b>\$ 317,400.00</b>	<b>\$ -</b>	<b>\$ 317,400.00</b>	<b>\$ 36,612.50</b>	<b>\$ 12,316.98</b>	<b>\$ 268,470.52</b>

DI-1040

UNITED STATES DEPARTMENT OF THE INTERIOR  
DOWN PAYMENT (BILL) REQUEST

Page:1

Make Remittance Payable To: U.S. Geological Survey  
Billing Contact: Cade Castro Phone: ccastro@usgs.gov

Bill #: 91109852  
Customer: 6000007725  
Date: 10/12/2023  
Due Date: 12/11/2023

Remit Payment To: United States Geological Survey  
P.O. Box 6200-27  
Portland, OR 97228-6200

Payer: CUYAMA BASIN GROUNDWATER  
SUSTAINABILITY  
AGENCY  
4900 CALIFORNIA AVE, TOWER B, 2ND FL  
BAKERSFIELD CA 93309

Additional forms of payment may be accepted. Please email GS-A-HQ\_RMS@USGS.GOV or call 703-648-7683 for additional information.

To pay through Pay.gov go to <https://www.pay.gov>.

Checks must be made payable to U.S. Geological Survey. Please detach the top portion or include bill number on all remittances.

Amount of Payment: \$ \_\_\_\_\_

Date	Description	Qty	Unit Price		Amount
			Cost	Per	
10/12/2023	Quarterly billing for cooperative water resource investigations in the Cuyama Basin Groundwater Sustainability Agency area, per a Joint Funding Agreement (JFA) 23ZGJFA06000065 between the Cuyama Basin Groundwater Sustainability Agency and the USGS. This JFA was accepted by your agency on 09/16/2022.  Quarterly bills cover billing periods as follows: Federal FY Qtr 1 10/01/2022 - 12/31/2022 Federal FY Qtr 2 01/01/2023 - 03/31/2023 Federal FY Qtr 3 04/01/2023 - 06/30/2023 Federal FY Qtr 4 07/01/2023 - 09/30/2023 23ZGJFA06000065	1	13,150.00	1	13,150.00

Amount Due this Bill: 13,150.00

Accounting Classification:  
Sales Order: 110595  
Sales Office: GWZG  
Customer: 6000007725  
Accounting #: 11332227

TIN: \*\*\*\*\*7328

## Progress Report



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### Cuyama Basin Groundwater Sustainability Plan Development

**Subject:** September 2023 Progress Report

Jim Beck, Executive Director,

**Prepared for:** Cuyama Basin Groundwater Sustainability Agency (CBGSA)

**Prepared by:** Micah Eggleton, Woodard & Curran

**Reviewed by:** Brian Van Lienden, Woodard & Curran

**Date:** October 20, 2023

**Project No.:** 0011078.01

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This progress report summarizes the work performed and project status for the period of August 26, 2023 through September 29, 2023 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 11, issued by the CBGSA on May 2, 2023. Work previously authorized on Task Orders 1 through 10 are complete.

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 Table 1.

**Table 1: Summary of Task/Deliverables Status for Task Order 11**

Task	Work Completed During the Reporting Period	Percent Complete	Work Scheduled for Next Period
<b>Task 54: FY23-24 Stakeholder/Board and Outreach Engagement Support</b>	<ul style="list-style-type: none"> <li>• Prepare for and participate in ad-hoc calls</li> <li>• Prepare materials for Tech Forum and Policy Ad-hoc calls</li> <li>• Participate in Board on September 6</li> <li>• Prepare for public workshop in October</li> <li>• Updates to GSA website</li> </ul>	30%	<ul style="list-style-type: none"> <li>• Participation in future ad-hoc calls</li> <li>• Preparation for and participation in future public workshops, CBGSA Board and SAC meetings</li> </ul>
<b>Task 55: FY23-24 Grant Administration</b>	<ul style="list-style-type: none"> <li>• Coordination, budget and schedule management related to grant tasks</li> <li>• Preparation and submittal of 4<sup>th</sup> grant invoice</li> </ul>	25%	<ul style="list-style-type: none"> <li>• Finalize fourth grant invoice and submit to DWR</li> <li>• Further grant administration and invoicing</li> </ul>
<b>Task 56: FY23-24 Ongoing Monitoring and Data Management Support</b>	<ul style="list-style-type: none"> <li>• Program management, coordination and data management related to monitoring activities</li> <li>• Uploading data to DMS</li> <li>• Prepare permit applications and landowner agreements for well site locations</li> <li>• Managed drilling subconsultant to perform installation of piezometers at three locations</li> </ul>	10%	<ul style="list-style-type: none"> <li>• Program management, coordination and data management related to monitoring activities</li> <li>• Continue preparation of permits and agreements for well locations</li> <li>• Perform installation of multi-completion monitoring wells</li> </ul>
<b>Task 57: FY23-24 Project and Management Action Implementation</b>	<ul style="list-style-type: none"> <li>• Performed updates to model data for CBWRM updates</li> <li>• Prepared materials for Tech Forum discussion</li> <li>• Data collection for basin water rights analysis</li> <li>• Perform updates to active well and monitoring well datasets</li> <li>• Develop potential future approaches for management action implementation</li> </ul>	20%	<ul style="list-style-type: none"> <li>• Ongoing PMA implementation support including analysis and material preparation</li> <li>• Perform basin model update</li> </ul>

Cuyama Basin Groundwater Sustainability Development  
September 2023 Progress Report

Task	Work Completed During the Reporting Period	Percent Complete	Work Scheduled for Next Period
<b>Task 58: FY23-24 GSP Implementation, Outreach, &amp; Compliance Activities</b>	<ul style="list-style-type: none"> <li>• Coordination among GSA Board, staff and stakeholders</li> <li>• Ongoing budget tracking, schedule management, and quality assurance/quality control of project implementation activities</li> <li>• Review monitoring data and identify issues with monitoring protocols</li> <li>• Perform model updates for upcoming Annual Report modeling activities</li> </ul>	25%	<ul style="list-style-type: none"> <li>• Ongoing support for GSP implementation, outreach and compliance activities</li> </ul>
<b>Task 59: Prepare Five Year Update</b>	<ul style="list-style-type: none"> <li>• Reviewed monitoring data and monitoring wells to develop proposed revisions to monitoring well network</li> <li>• Perform analyses and make revisions to potential approaches based on feedback from Technical Forum</li> <li>• Developed options for updates to glide path and sustainability criteria for Board consideration</li> <li>• Updates to map formats and DMS data to support GSP updates</li> <li>• </li> </ul>	20%	<ul style="list-style-type: none"> <li>• Continued review of data relevant to the GSP and development of potential technical updates</li> <li>• Continued update and development of GSP approaches for Board consideration</li> </ul>
<b>Task 60: FY23-24 Improve Understanding of Basin Water Use</b>	<ul style="list-style-type: none"> <li>• Perform flight for river channel survey and associated planning support</li> </ul>	2%	<ul style="list-style-type: none"> <li>• Continued support for weather station, river channel survey and land use project implementation</li> </ul>
<b>Task 61: FY23-24 Preparation of Grant Proposal</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>	0%	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Task 62: Perform Fault Investigation</b>	<ul style="list-style-type: none"> <li>• Planning and scoping of fault investigations activities, including coordination with potential subconsultants</li> </ul>	5%	<ul style="list-style-type: none"> <li>• Perform planning activities for fault investigation</li> </ul>

Task	Work Completed During the Reporting Period	Percent Complete	Work Scheduled for Next Period
<b>Task 63.1: Support for DWR Technical Support Services</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	0%	<ul style="list-style-type: none"> <li>Support DWR TSS activities as needed</li> </ul>
<b>Task 63.2: Well Permit Review</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	5%	<ul style="list-style-type: none"> <li>Additional well permit reviews as requested</li> </ul>
<b>Task 63.3: Website Redesign</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	0%	<ul style="list-style-type: none"> <li>None</li> </ul>

## 2 Budget Status

Table 2 shows the percent spent for each task under Task Order 11 as of September 29, 2023. 16% of the available Task Order 11 budget has been expended \$388,062.76 out of \$2,436,117).

**Table 2: Budget Status for Task Order 11**

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
<b>54</b>	\$153,530.00	\$22,496.05	\$25,991.60	\$48,487.65	\$105,042.36	32%
<b>55</b>	\$99,940.00	\$15,527.50	\$8,392.50	\$23,920.00	\$76,020.00	24%
<b>56</b>	\$323,350.00	\$8,514.33	\$21,725.95	\$30,240.28	\$293,109.72	9%
<b>57</b>	\$541,220.00	\$70,104.74	\$25,335.00	\$95,439.74	\$445,780.26	18%
<b>58</b>	\$114,980.00	\$18,643.75	\$9,241.25	\$27,885.00	\$87,095.00	24%
<b>59</b>	\$688,500.00	\$87,155.09	\$51,293.75	\$138,448.84	\$550,051.16	20%
<b>60</b>	\$101,892.00	\$0.00	\$2,197.50	\$2,197.50	\$99,694.50	2%
<b>61</b>	\$41,980.00	\$0.00	\$0.00	\$0.00	\$41,980.00	0%
<b>62</b>	\$329,730.00	\$15,870.00	\$5,238.75	\$21,108.75	\$308,621.25	6%
<b>63.1</b>	\$20,050.00	\$0.00	\$0.00	\$0.00	\$20,050.00	0%
<b>63.2</b>	\$12,030.00	\$335.00	\$0.00	\$335.00	\$11,695.00	3%
<b>63.3</b>	\$8,915.00	\$0.00	\$0.00	\$0.00	\$8,915.00	0%
<b>Total</b>	<b>\$2,436,117.00</b>	<b>\$238,646.46</b>	<b>\$149,416.30</b>	<b>\$388,062.76</b>	<b>\$2,048,054.25</b>	<b>16%</b>

## 3 Schedule Status

The project is on schedule. Work authorized under Task Orders 1 through 10 is complete.

## 4 Outstanding Issues to be Coordinated

None





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

T 800.426.4262  
 T 207.774.2112  
 F 207.774.6635

# INVOICE

TD BANK

**Electronic Transfer:**

⑆ 211274450 ⑆ 2427662596 ⑆\*

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

October 23, 2023  
 Project No: 0011078.01  
 Invoice No: 225678

Project 0011078.01 CUYAMA GSP

**Professional Services for the period ending September 29, 2023**

Phase 054 FY 23/24 STAKEHOLDER/BOARD AND OUTREACH ENGAGEMENT SUPPORT

**Professional Personnel**

	<b>Hours</b>	<b>Rate</b>	<b>Amount</b>
Designer			
Fox, Adam	2.25	200.00	450.00
Project Planner 1			
Eggleton, Charles	10.50	265.00	2,782.50
Senior Project Manager			
Van Lienden, Brian	38.50	335.00	12,897.50
Totals	51.25		16,130.00
<b>Labor Total</b>			<b>16,130.00</b>

**Reimbursable**

Vehicle Expenses			
9/7/2023 Van Lienden, Brian		Cuyama Basin GSA Board meeting	111.62
9/7/2023 Van Lienden, Brian		Cuyama Basin GSA Board meeting	38.31
Travel & Lodging			
9/6/2023 Van Lienden, Brian		Cuyama Basin GSA Board meeting	8.11

Project	0011078.01	CUYAMA GSP	Invoice	225678
9/6/2023	Van Lienden, Brian	Cuyama Basin GSA Board meeting	134.10	
<b>Reimbursable Total</b>			<b>1.1 times</b>	<b>292.14</b>
				<b>321.35</b>

**Consultant**

Sub - Consultant Miscellaneous

9/29/2023	THE CATALYST GROUP	The Catalyst Group Inv# 814	8,672.95	
<b>Consultant Total</b>			<b>1.1 times</b>	<b>8,672.95</b>
				<b>9,540.25</b>

**Total this Phase** **\$25,991.60**

Phase 055 FY 23/24 GRANT ADMIN

**Professional Personnel**

	Hours	Rate	Amount	
Planner 3				
Valenzuela, George	2.75	250.00	687.50	
Senior Project Manager				
Van Lienden, Brian	23.00	335.00	7,705.00	
Totals	25.75		8,392.50	
<b>Labor Total</b>				<b>8,392.50</b>
			<b>Total this Phase</b>	<b>\$8,392.50</b>

Phase 056 FY 23/24 ONGOING MONITORING SUPPORT AND ENHANCEMENTS

**Professional Personnel**

	Hours	Rate	Amount	
Drafter				
Ebron, Anthony	67.75	150.00	10,162.50	
Li Guan, Javier	6.50	150.00	975.00	
Senior Project Manager				
Strandberg, James	19.25	335.00	6,448.75	
Totals	93.50		17,586.25	
<b>Labor Total</b>				<b>17,586.25</b>

**Reimbursable**

Vehicle Expenses				
9/11/2023	Strandberg, James	0011078.01 J Strandberg Mileage	19.65	

Project	0011078.01	CUYAMA GSP	Invoice	225678
9/11/2023	Strandberg, James	0011078.01 J Strandberg Rental Fuel	60.00	
9/13/2023	Strandberg, James	0011078.01 Car Rental J Strandberg	537.10	
9/13/2023	Ebron, Anthony	Field Work/Drilling	87.87	
9/15/2023	Ebron, Anthony	Field Work/Drilling	509.07	
Travel & Lodging				
8/1/2023	Ebron, Anthony	Field Work/Drilling	44.99	
9/11/2023	Strandberg, James	0011078.01 J Strandberg Hotel/Meal with	76.94	
9/11/2023	Ebron, Anthony	Field Work/Drilling	225.00	
9/11/2023	Strandberg, James	0011078.01 J Strandberg Hotel/Meal with	255.00	
9/12/2023	Ebron, Anthony	Field Work/Drilling	225.00	
9/12/2023	Strandberg, James	JStrandberg Sept 23 Expenses	5.00	
9/13/2023	Ebron, Anthony	Field Work/Drilling	225.00	
9/14/2023	Ebron, Anthony	Field Work/Drilling	245.00	
9/14/2023	Ebron, Anthony	Field Work/Drilling	284.64	
9/15/2023	Ebron, Anthony	Field Work/Drilling	64.59	
Meals				
9/11/2023	Strandberg, James	0011078.01 J Strandberg Hotel/Meal with	22.00	
9/11/2023	Strandberg, James	0011078.01 J Strandberg Hotel/Meal with	128.40	
9/11/2023	Ebron, Anthony	Field Work/Drilling	9.50	
9/11/2023	Strandberg, James	0011078.01 J Strandberg Meal	11.49	
9/12/2023	Ebron, Anthony	Field Work/Drilling	46.00	
9/13/2023	Ebron, Anthony	Field Work/Drilling	39.53	
9/15/2023	Ebron, Anthony	Field Work/Drilling	3.50	
Airfare				
8/1/2023	Ebron, Anthony	Field Work/Drilling	449.65	
Miscellaneous				
9/12/2023	Ebron, Anthony	Field Work/Drilling	13.00	
Field Equipment				
9/11/2023	Ebron, Anthony	Field Work/Drilling	112.08	

Project	0011078.01	CUYAMA GSP	Invoice	225678
Computer Charges				
9/10/2023	Ebron, Anthony	Field Work/Drilling	36.01	
Meals non-deductible				
9/12/2023	Strandberg, James	JStrandberg Sept 23 Expenses	27.35	
<b>Reimbursable Total</b>			<b>1.1 times</b>	<b>3,763.36</b>
			<b>Total this Phase</b>	<b>\$21,725.95</b>

Phase 057 FY 23/24 PROJECT & MANAGEMENT ACTION IMPLEMENTATION

#### Professional Personnel

	Hours	Rate	Amount	
Engineer 1				
Hunt, Devin	48.75	200.00	9,750.00	
Project Assistant				
Hughart, Desiree	.50	130.00	65.00	
Miller, Annette	.75	130.00	97.50	
Sentz-Casas, Christine	.75	130.00	97.50	
Project Planner 1				
Eggleton, Charles	10.50	265.00	2,782.50	
O'Callaghan, Ariel	21.00	265.00	5,565.00	
Senior Project Manager				
Van Lienden, Brian	6.50	335.00	2,177.50	
Technical Manager 1				
Ceyhan, Mahmut	16.00	300.00	4,800.00	
Totals	104.75		25,335.00	
<b>Labor Total</b>				<b>25,335.00</b>
			<b>Total this Phase</b>	<b>\$25,335.00</b>

Phase 058 FY 23/24 GSP IMPLEMENTATION, OUTREACH, AND COMPLIANCE ACTIVITIES

#### Professional Personnel

	Hours	Rate	Amount
Engineer 1			
Camille, Adrien	1.25	200.00	250.00
Project Manager 1			
Lucy, Caleb	6.50	300.00	1,950.00

Project	0011078.01	CUYAMA GSP			Invoice	225678
	Project Planner 1					
	Eggleton, Charles		20.25	265.00	5,366.25	
	Senior Project Manager					
	Van Lienden, Brian		5.00	335.00	1,675.00	
	Totals		33.00		9,241.25	
	<b>Labor Total</b>					<b>9,241.25</b>
					<b>Total this Phase</b>	<b>\$9,241.25</b>

Phase 059 FY 23/24 PREPARE 5 YEAR GSP UPDATE

#### Professional Personnel

	Hours	Rate	Amount
Engineer 1			
Hunt, Devin	32.50	200.00	6,500.00
Project Planner 1			
O'Callaghan, Ariel	67.75	265.00	17,953.75
Senior Project Manager			
Strandberg, James	43.00	335.00	14,405.00
Van Lienden, Brian	33.00	335.00	11,055.00
Senior Technical Leader			
Taghavi, Ali	4.00	345.00	1,380.00
Totals	180.25		51,293.75
<b>Labor Total</b>			<b>51,293.75</b>
			<b>Total this Phase</b>
			<b>\$51,293.75</b>

Phase 060 FY 23/24 IMPROVE UNDERSTANDING OF BASIN WATER USE

#### Professional Personnel

	Hours	Rate	Amount
Senior Project Manager			
Van Lienden, Brian	4.50	335.00	1,507.50
Senior Technical Leader			
Taghavi, Ali	2.00	345.00	690.00
Totals	6.50		2,197.50
<b>Labor Total</b>			<b>2,197.50</b>
			<b>Total this Phase</b>
			<b>\$2,197.50</b>

Project	0011078.01	CUYAMA GSP	Invoice	225678
Phase	062	FY 23/24 PERFORM FAULT INVESTIGATION		


**Professional Personnel**

	Hours	Rate	Amount
Engineer 1			
Camille, Adrien	11.75	200.00	2,350.00
Hunt, Devin	7.25	200.00	1,450.00
Senior Project Manager			
Strandberg, James	2.75	335.00	921.25
Senior Technical Leader			
House, Jason	1.50	345.00	517.50
Totals	23.25		5,238.75
<b>Labor Total</b>			<b>5,238.75</b>
		<b>Total this Phase</b>	<b>\$5,238.75</b>
		<b>Total this Invoice</b>	<b>\$149,416.30</b>

**Outstanding Invoices**

Number	Date	Balance
224509	9/21/2023	97,119.48
<b>Total</b>		<b>97,119.48</b>

	Current Fee	Previous Fee	Total
<b>Project Summary</b>	<b>149,416.30</b>	<b>4,914,641.04</b>	<b>5,064,057.34</b>

Approved by:  \_\_\_\_\_

Brian Van Lienden  
Senior Project Manager  
Woodard & Curran

**The Catalyst Group, Inc.**  
 25 Brushwood Lane  
 Greenbrae, CA 94904  
 +1 4155242080  
 Charles@CatalystGroupCA.com  
 www.CatalystGroupCA.com

**BILL TO**

Brian Van Lienden  
 Woodard & Curran  
 801 T Street  
 Sacramento, CA 95811

**INVOICE 814**

**DATE** 10/09/2023 **TERMS** Net 90

**DUE DATE** 01/07/2024

DATE	ACCOUNT SUMMARY	AMOUNT
09/06/2023	Balance Forward	4,887.50
	Other payments and credits after 09/06/2023 through 10/08/2023	-1,445.00
10/09/2023	Other invoices from this date	0.00
	New charges (details below)	8,672.95
	<b>Total Amount Due</b>	<b>12,115.45</b>

DATE	ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
09/01/2023	<b>Task 10-Pope</b>	Progress report, workshop planning	1:30	170.00	255.00
09/01/2023	<b>Task 10-Gardiner</b>	Notification planning	1:15	225.00	281.25
09/05/2023	<b>Task 10-Pope</b>	Flyer	0:30	170.00	85.00
09/05/2023	<b>Task 10-Gardiner</b>	Interpretation invoicing	0:15	225.00	56.25
09/06/2023	<b>Task 10-Pope</b>	SAC & Board pac review	1:15	170.00	212.50
09/06/2023	<b>Task 10-Gardiner</b>	Board meeting	3:00	225.00	675.00
09/07/2023	<b>Task 10-Pope</b>	Workshop prep, notification	3:15	170.00	552.50
09/07/2023	<b>Task 10-Gardiner</b>	Workshop planning	1:00	225.00	225.00
09/08/2023	<b>Task 10-Pope</b>	Workshop planning	1:15	170.00	212.50
09/08/2023	<b>Task 10-Gardiner</b>	Workshop planning	0:15	225.00	56.25
09/10/2023	<b>Task 10-Pope</b>	Notification plan	0:30	170.00	85.00
09/11/2023	<b>Task 10-Pope</b>	Notification planning	0:15	170.00	42.50
09/11/2023	<b>Task 10-Gardiner</b>	Notice	0:15	225.00	56.25
09/12/2023	<b>Task 10-Pope</b>	Workshop notifications, event plan, meeting	4:30	170.00	765.00
09/12/2023	<b>Task 10-Gardiner</b>	Workshop planning	2:00	225.00	450.00
09/12/2023		8/25/22 Interpretation Services			907.95
09/13/2023	<b>Task 10-Pope</b>	Notification, charles call	1:15	170.00	212.50

DATE	ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
09/13/2023	<b>Task 10-Gardiner</b>	Noticing	0:30	225.00	112.50
09/14/2023	<b>Task 10-Pope</b>	notification	0:30	170.00	85.00
09/17/2023	<b>Task 10-Gardiner</b>	Workshop plan	1:00	225.00	225.00
09/18/2023	<b>Task 10-Pope</b>	Event plan	1:30	170.00	255.00
09/19/2023	<b>Task 10-Pope</b>	Workshop prep	1:15	170.00	212.50
09/19/2023	<b>Task 10-Gardiner</b>	Workshop planning, presentation	3:00	225.00	675.00
09/20/2023	<b>Task 10-Pope</b>	Charles call	1:00	170.00	170.00
09/20/2023	<b>Task 10-Gardiner</b>	Workshop planning, presentation	3:30	225.00	787.50
09/21/2023	<b>Task 10-Pope</b>	Workshop prep	1:45	170.00	297.50
09/28/2023	<b>Task 10-Pope</b>	PPT, logistics	1:30	170.00	255.00
09/29/2023	<b>Task 10-Pope</b>	Workshop plan, Brian/Taylor PPT call	2:45	170.00	467.50

TOTAL OF NEW  
CHARGES

8,672.95

**TOTAL DUE**

**\$12,115.45**





## Monthly Progress Report—September 2023

To: Brian Van Lienden

From: Aaron Pope

Date: October 9, 2023

Re: September 2023 Progress Report

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The following summarizes the Catalyst activities for the Cuyama Groundwater Sustainability Plan for the month of September 2023.

### Work Completed

- ☐ Attended SAC and Board meetings as requested.
- ☐ Attended workshop planning calls and prepared workshop plan.
- ☐ Coordinated with DWR team for interpretation and translation services.
- ☐ Prepared notification plan and materials.
- ☐ Developed workshop presentation.

### Work Planned for Next Month

- ☐ Assist in planning and outreach for upcoming workshops.
- ☐ Prepare final workshop materials.
- ☐ Attend and facilitate workshop.

### Issues for Resolution

- ☐ None.



TO: Board of Directors  
Agenda Item No. 8

FROM: Taylor Blakslee, Hallmark Group

DATE: November 1, 2023

SUBJECT: Approval of Financial Reports for August and September 2023

**Recommended Motion**

Approve financial reports for August and September 2023.

**Discussion**

The Cuyama Basin Groundwater Sustainability Agency's financial report for August 2023 are provided as Attachment 1 is provided as Attachment 2 is financial report for September 2023.

The reports include:

- Statement of Financial Position
- Receipts and Disbursements
- A/R Aging Summary
- A/P Aging Summary
- Statement of Operations with Budget Variance
- 2022/2023 Operating Budget



# **Cuyama Basin GSA**

## **Financial Statements August 2023**

**CUYAMA BASIN GSA**  
**Statement of Financial Position**  
As of August 31, 2023

	Aug 31, 23	Aug 31, 22	\$ Change	% Change
<b>ASSETS</b>				
<b>Current Assets</b>				
<b>Checking/Savings</b>				
Chase - General Checking	1,996,878	1,952,433	44,445	2%
<b>Total Checking/Savings</b>	1,996,878	1,952,433	44,445	2%
<b>Accounts Receivable</b>				
Accounts Receivable	738,216	99,455	638,761	642%
<b>Total Accounts Receivable</b>	738,216	99,455	638,761	642%
<b>Total Current Assets</b>	2,735,094	2,051,888	683,206	33%
<b>TOTAL ASSETS</b>	<b>2,735,094</b>	<b>2,051,888</b>	<b>683,206</b>	<b>33%</b>
<b>LIABILITIES &amp; EQUITY</b>				
<b>Liabilities</b>				
<b>Current Liabilities</b>				
<b>Accounts Payable</b>				
Accounts Payable	423,506	391,319	32,187	8%
<b>Total Accounts Payable</b>	423,506	391,319	32,187	8%
<b>Other Current Liabilities</b>				
New/Repl Well Deposits	1,559	0	1,559	100%
<b>Total Other Current Liabilities</b>	1,559	0	1,559	100%
<b>Total Current Liabilities</b>	425,065	391,319	33,746	9%
<b>Total Liabilities</b>	425,065	391,319	33,746	9%
<b>Equity</b>				
<b>Unrestricted Net Assets</b>	2,080,948	1,115,300	965,648	87%
<b>Net Income</b>	229,081	545,268	-316,187	-58%
<b>Total Equity</b>	2,310,029	1,660,569	649,460	39%
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>2,735,094</b>	<b>2,051,888</b>	<b>683,206</b>	<b>33%</b>

**CUYAMA BASIN GSA**  
**Receipts and Disbursements**  
**As of August 31, 2023**

Type	Date	Num	Name	Debit	Credit
<b>Chase - General Checking</b>					
Payment	07/07/2023	4397	Groundwater Extraction Fees:Sunrise Olive Ranch, LLC	21,138.84	
Bill Pmt -Check	07/12/2023	1145	HGCPM, Inc.		31,707.72
Bill Pmt -Check	07/12/2023	1146	Klein DeNatale Goldner		18,234.50
Bill Pmt -Check	07/12/2023	1147	Provost & Pritchard Consulting Group		6,239.42
Bill Pmt -Check	07/12/2023	1148	Woodard & Curran Inc		161,164.95
Bill Pmt -Check	07/12/2023	1149	Provost & Pritchard Consulting Group		2,005.00
Payment	07/14/2023	21532	Groundwater Extraction Fees:Cuyama Orchards, Inc	12,682.80	
Payment	07/14/2023	1867	Groundwater Extraction Fees:Highland Vineyard SB, LLC	20,109.36	
Total Chase - General Checking				53,931.00	219,351.59
<b>TOTAL</b>				<b>53,931.00</b>	<b>219,351.59</b>

**CUYAMA BASIN GSA  
A/R Aging Summary  
As of August 31, 2023**

---

	<u>Current</u>	<u>1 - 30</u>	<u>31 - 60</u>	<u>61 - 90</u>	<u>&gt; 90</u>	<u>TOTAL</u>
Department of Water Resources Groundwater Extraction Fees	0	0	0	344,359	391,358	735,717
Cuyama Orchards, Inc	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2,499</u>	<u>2,499</u>
<b>Total Groundwater Extraction Fees</b>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2,499</u>	<u>2,499</u>
<b>TOTAL</b>	<u><u>0</u></u>	<u><u>0</u></u>	<u><u>0</u></u>	<u><u>344,359</u></u>	<u><u>393,856</u></u>	<u><u>738,216</u></u>

**CUYAMA BASIN GSA**  
**A/P Aging Summary**  
As of August 31, 2023

---

	<u>Current</u>	<u>1 - 30</u>	<u>31 - 60</u>	<u>61 - 90</u>	<u>&gt; 90</u>	<u>TOTAL</u>
HGCPM, Inc.	19,775	0	16,838	25,589	0	62,202
Klein DeNatale Goldner	4,463	0	6,092	2,691	0	13,245
Provost & Pritchard Consulting Group	11,239	0	6,508	1,372	0	19,119
U.S. Geological Survey	0	0	0	13,150	0	13,150
Woodard & Curran Inc	97,119	0	141,192	77,479	0	315,791
<b>TOTAL</b>	<b><u>132,596</u></b>	<b><u>0</u></b>	<b><u>170,629</u></b>	<b><u>120,281</u></b>	<b><u>0</u></b>	<b><u>423,506</u></b>

**CUYAMA BASIN GSA**  
**Statement of Operations with Budget Variance**  
 July through August 2023

	Jul - Aug 23	Budget	\$ Over Budget	% of Budget
<b>Ordinary Income/Expense</b>				
<b>Income</b>				
<b>Direct Public Funds</b>				
Groundwater Extraction Fees	530,133	530,133	-0	100%
<b>Total Direct Public Funds</b>	530,133	530,133	-0	100%
<b>Total Income</b>	530,133	530,133	-0	100%
<b>Cost of Goods Sold</b>				
<b>Program Expenses</b>				
<b>Technical Consulting</b>				
Monitoring Network Enhancements	8,514	46,332	-37,818	18%
GSP Implementation - W&C	18,644	35,000	-16,356	53%
Stakeholder Engagement	23,039	22,000	1,039	105%
Technical Support for DWR	0	2,660	-2,660	0%
Outreach	0	5,108	-5,108	0%
Grant Proposals	0	7,000	-7,000	0%
Grant Administration	15,528	16,660	-1,133	93%
Improve Basin Water Use Info	0	17,000	-17,000	0%
Project & Mgmt Action Impl	70,105	33,500	36,605	209%
5 Year GSP Update - Technical	87,155	114,740	-27,585	76%
Fault Investigation	15,870	20,000	-4,130	79%
Well Permit Review - Technical	0	2,000	-2,000	0%
<b>Total Technical Consulting</b>	238,855	322,000	-83,145	74%
<b>Other Technical Consulting</b>				
Monitoring Network	17,747	35,750	-18,003	50%
<b>Total Other Technical Consulting</b>	17,747	35,750	-18,003	50%
<b>Total Program Expenses</b>	256,601	357,750	-101,149	72%
<b>Total COGS</b>	256,601	357,750	-101,149	72%
<b>Gross Profit</b>	273,531	172,383	101,148	159%
<b>Expense</b>				
<b>General and Administrative</b>				
<b>GSA Executive Director</b>				
GSA BOD Meetings	16,650	18,567	-1,917	90%
Consult Mgmt and GSP Devel	10,975	12,221	-1,246	90%
Financial Information Coor	5,600	8,557	-2,957	65%
Funding Process (GWE Fee)	1,488	928	560	160%
CBGSA Outreach	1,800	1,780	20	101%
Adjudication Support	100	322	-222	31%
Management Area Admin	0	1,962	-1,962	0%
5-Year GSP Update - Admin	0	3,037	-3,037	0%
Water Use Enforcement	0	4,230	-4,230	0%
Well Permit Review - Admin	0	330	-330	0%
Travel and Direct Costs	0	950	-950	0%
<b>Total GSA Executive Director</b>	36,613	52,884	-16,272	69%
<b>Other Administrative</b>				
Legal	7,838	33,330	-25,493	24%
Contingency	0	3,330	-3,330	0%
<b>Total Other Administrative</b>	7,838	36,660	-28,823	21%
<b>Total General and Administrative</b>	44,450	89,544	-45,094	50%
<b>Total Expense</b>	44,450	89,544	-45,094	50%
<b>Net Ordinary Income</b>	229,081	82,839	146,242	277%
<b>Net Income</b>	<b>229,081</b>	<b>82,839</b>	<b>146,242</b>	<b>277%</b>



**CUYAMA BASIN GSA**  
**FY 23/24 Budget Overview**  
 July 2023 - June 2024

	<u>Jul '23 - Jun 24</u>
<b>Ordinary Income/Expense</b>	
<b>Income</b>	
<b>Direct Public Funds</b>	
Groundwater Extraction Fees	530,133
Grant Reimbursements	4,221,424
<b>Total Direct Public Funds</b>	<u>4,751,557</u>
<b>Total Income</b>	4,751,557
<b>Cost of Goods Sold</b>	
<b>Program Expenses</b>	
<b>Technical Consulting</b>	
Monitoring Network Enhancements	2,443,000
GSP Implementation - W&C	210,000
Stakeholder Engagement	132,000
Technical Support for DWR	16,000
Outreach	30,667
Grant Proposals	42,000
Grant Administration	100,000
Basin Water Use Surveys	102,000
Project & Mgmt Action Impl	491,000
5 Year GSP Update - Technical	688,450
Fault Investigation	330,000
Well Permit Review - Technical	12,000
<b>Total Technical Consulting</b>	<u>4,597,117</u>
<b>Other Technical Consulting</b>	
Monitoring Network	68,000
Stream Gauge Maintenance	56,650
<b>Total Other Technical Consulting</b>	<u>124,650</u>
<b>Total Program Expenses</b>	<u>4,721,767</u>
<b>Total COGS</b>	<u>4,721,767</u>
<b>Gross Profit</b>	29,790
<b>Expense</b>	
<b>General and Administrative</b>	
<b>GSA Executive Director</b>	
GSA BOD Meetings	111,397
Consult Mgmt and GSP Devel	73,351
Financial Information Coord	51,357
Funding Process (GWE Fee)	5,562
CBGSA Outreach	10,721
Adjudication Support	1,932
Management Area Admin	11,772
5-Year GSP Update - Admin	18,217
Water Use Enforcement	25,400
Well Permit Review - Admin	2,000
Travel and Direct Costs	5,691
<b>Total GSA Executive Director</b>	<u>317,400</u>
<b>Other Administrative</b>	
Legal	200,000
Insurance - D&O and General	16,603
Auditing/Accounting Fees	10,000
Other Admin Expense	200
Contingency	20,000
<b>Total Other Administrative</b>	<u>246,803</u>
<b>Total General and Administrative</b>	<u>564,203</u>
<b>Total Expense</b>	<u>564,203</u>
<b>Net Ordinary Income</b>	<u>-534,413</u>
<b>Net Income</b>	<u><u>-534,413</u></u>



# **Cuyama Basin GSA**

## **Financial Statements September 2023**

**CUYAMA BASIN GSA**  
**Statement of Financial Position**  
As of September 30, 2023

	Sep 30, 23	Sep 30, 22	\$ Change	% Change
<b>ASSETS</b>				
<b>Current Assets</b>				
<b>Checking/Savings</b>				
Chase - General Checking	1,705,968	1,733,933	-27,964	-2%
<b>Total Checking/Savings</b>	1,705,968	1,733,933	-27,964	-2%
<b>Accounts Receivable</b>				
Accounts Receivable	1,115,516	1,783,028	-667,512	-37%
<b>Total Accounts Receivable</b>	1,115,516	1,783,028	-667,512	-37%
<b>Total Current Assets</b>	2,821,484	3,516,960	-695,476	-20%
<b>TOTAL ASSETS</b>	<b>2,821,484</b>	<b>3,516,960</b>	<b>-695,476</b>	<b>-20%</b>
<b>LIABILITIES &amp; EQUITY</b>				
<b>Liabilities</b>				
<b>Current Liabilities</b>				
<b>Accounts Payable</b>				
Accounts Payable	321,106	311,318	9,788	3%
<b>Total Accounts Payable</b>	321,106	311,318	9,788	3%
<b>Other Current Liabilities</b>				
New/Repl Well Deposits	1,559	0	1,559	100%
<b>Total Other Current Liabilities</b>	1,559	0	1,559	100%
<b>Total Current Liabilities</b>	322,665	311,318	11,347	4%
<b>Total Liabilities</b>	322,665	311,318	11,347	4%
<b>Equity</b>				
<b>Unrestricted Net Assets</b>	2,080,948	1,115,300	965,648	87%
<b>Net Income</b>	417,871	2,090,342	-1,672,471	-80%
<b>Total Equity</b>	2,498,819	3,205,642	-706,823	-22%
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>2,821,484</b>	<b>3,516,960</b>	<b>-695,476</b>	<b>-20%</b>

**CUYAMA BASIN GSA**  
**Receipts and Disbursements**  
**As of September 30, 2023**

Type	Date	Num	Name	Debit	Credit
<b>Chase - General Checking</b>					
Payment	07/07/2023	4397	Groundwater Extraction Fees:Sunrise Olive Ranch, LLC	21,138.84	
Bill Pmt -Check	07/12/2023	1145	HGCPM, Inc.		31,707.72
Bill Pmt -Check	07/12/2023	1146	Klein DeNatale Goldner		18,234.50
Bill Pmt -Check	07/12/2023	1147	Provost & Pritchard Consulting Group		6,239.42
Bill Pmt -Check	07/12/2023	1148	Woodard & Curran Inc		161,164.95
Bill Pmt -Check	07/12/2023	1149	Provost & Pritchard Consulting Group		2,005.00
Payment	07/14/2023	21532	Groundwater Extraction Fees:Cuyama Orchards, Inc	12,682.80	
Payment	07/14/2023	1867	Groundwater Extraction Fees:Highland Vineyard SB, LLC	20,109.36	
Bill Pmt -Check	09/08/2023	1150	HGCPM, Inc.		42,426.72
Bill Pmt -Check	09/08/2023	1151	Klein DeNatale Goldner		8,782.05
Bill Pmt -Check	09/08/2023	1152	Provost & Pritchard Consulting Group		7,879.96
Bill Pmt -Check	09/08/2023	1153	U.S. Geological Survey		13,150.00
Bill Pmt -Check	09/08/2023	1154	Woodard & Curran Inc		218,671.47
Total Chase - General Checking				53,931.00	510,261.79
<b>TOTAL</b>				<b>53,931.00</b>	<b>510,261.79</b>

**CUYAMA BASIN GSA  
A/R Aging Summary  
As of September 30, 2023**

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	<u>Current</u>	<u>1 - 30</u>	<u>31 - 60</u>	<u>61 - 90</u>	<u>&gt; 90</u>	<u>TOTAL</u>
Department of Water Resources	377,300	0	0	0	735,717	1,113,017
Groundwater Extraction Fees						
Cuyama Orchards, Inc	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2,499</u>	<u>2,499</u>
Total Groundwater Extraction Fees	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2,499</u>	<u>2,499</u>
<b>TOTAL</b>	<b><u>377,300</u></b>	<b><u>0</u></b>	<b><u>0</u></b>	<b><u>0</u></b>	<b><u>738,216</u></b>	<b><u>1,115,516</u></b>

**CUYAMA BASIN GSA**  
**A/P Aging Summary**  
**As of September 30, 2023**

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	<u>Current</u>	<u>1 - 30</u>	<u>31 - 60</u>	<u>61 - 90</u>	<u>&gt; 90</u>	<u>TOTAL</u>
HGCPM, Inc.	12,317	19,775	0	0	0	32,092
Klein DeNatale Goldner	0	14,303	0	0	0	14,303
Provost & Pritchard Consulting Group	0	11,239	0	0	0	11,239
U.S. Geological Survey	13,150	0	0	0	0	13,150
Woodard & Curran Inc	153,203	97,119	0	0	0	250,323
<b>TOTAL</b>	<b><u>178,670</u></b>	<b><u>142,436</u></b>	<b><u>0</u></b>	<b><u>0</u></b>	<b><u>0</u></b>	<b><u>321,106</u></b>

**CUYAMA BASIN GSA**  
**Statement of Operations with Budget Variance**  
 July through September 2023

	Jul - Sep 23	Budget	\$ Over Budget	% of Budget
<b>Ordinary Income/Expense</b>				
<b>Income</b>				
<b>Direct Public Funds</b>				
Groundwater Extraction Fees	530,133	530,133	-0	100%
Grant Reimbursements	377,300	1,055,356	-678,056	36%
<b>Total Direct Public Funds</b>	907,433	1,585,489	-678,056	57%
<b>Total Income</b>	907,433	1,585,489	-678,056	57%
<b>Cost of Goods Sold</b>				
<b>Program Expenses</b>				
<b>Technical Consulting</b>				
Monitoring Network Enhancements	30,240	69,498	-39,258	44%
GSP Implementation - W&C	27,885	52,500	-24,615	53%
Stakeholder Engagement	52,818	33,000	19,818	160%
Technical Support for DWR	0	3,994	-3,994	0%
Outreach	0	7,663	-7,663	0%
Grant Proposals	0	10,500	-10,500	0%
Grant Administration	23,920	24,994	-1,074	96%
Improve Basin Water Use Info	2,198	25,500	-23,303	9%
Project & Mgmt Action Impl	95,440	50,250	45,190	190%
5 Year GSP Update - Technical	138,449	172,111	-33,662	80%
Fault Investigation	21,109	82,500	-61,391	26%
Well Permit Review - Technical	0	3,000	-3,000	0%
<b>Total Technical Consulting</b>	392,058	535,510	-143,452	73%
<b>Other Technical Consulting</b>				
Monitoring Network	30,897	35,750	-4,853	86%
Stream Gauge Maintenance	0	14,163	-14,163	0%
<b>Total Other Technical Consulting</b>	30,897	49,913	-19,016	62%
<b>Total Program Expenses</b>	422,955	585,423	-162,468	72%
<b>Total COGS</b>	422,955	585,423	-162,468	72%
<b>Gross Profit</b>	484,478	1,000,066	-515,588	48%
<b>Expense</b>				
<b>General and Administrative</b>				
<b>GSA Executive Director</b>				
GSA BOD Meetings	22,200	27,850	-5,650	80%
Consult Mgmt and GSP Devel	13,600	18,334	-4,734	74%
Financial Information Coor	7,475	12,837	-5,362	58%
Funding Process (GWE Fee)	1,588	1,392	196	114%
CBGSA Outreach	3,600	2,675	925	135%
Adjudication Support	200	483	-283	41%
Management Area Admin	0	2,943	-2,943	0%
5-Year GSP Update - Admin	0	4,555	-4,555	0%
Water Use Enforcement	0	6,347	-6,347	0%
Well Permit Review - Admin	0	497	-497	0%
Travel and Direct Costs	0	1,425	-1,425	0%
<b>Total GSA Executive Director</b>	48,663	79,338	-30,676	61%
<b>Other Administrative</b>				
Legal	17,678	49,997	-32,320	35%
Auditing/Accounting Fees	0	2,500	-2,500	0%
Other Admin Expense	267	0	267	100%
Contingency	0	4,997	-4,997	0%
<b>Total Other Administrative</b>	17,944	57,494	-39,550	31%
<b>Total General and Administrative</b>	66,607	136,832	-70,225	49%
<b>Total Expense</b>	66,607	136,832	-70,225	49%
<b>Net Ordinary Income</b>	417,871	863,234	-445,363	48%
<b>Net Income</b>	417,871	863,234	-445,363	48%

**CUYAMA BASIN GSA**  
**FY 23/24 Budget Overview**  
 July 2023 - June 2024

	<b>Jul '23 - Jun 24</b>
<b>Ordinary Income/Expense</b>	
<b>Income</b>	
<b>Direct Public Funds</b>	
Groundwater Extraction Fees	530,133
Grant Reimbursements	4,221,424
<b>Total Direct Public Funds</b>	4,751,557
<b>Total Income</b>	4,751,557
<b>Cost of Goods Sold</b>	
<b>Program Expenses</b>	
<b>Technical Consulting</b>	
Monitoring Network Enhancements	2,443,000
GSP Implementation - W&C	210,000
Stakeholder Engagement	132,000
Technical Support for DWR	16,000
Outreach	30,667
Grant Proposals	42,000
Grant Administration	100,000
Basin Water Use Surveys	102,000
Project & Mgmt Action Impl	491,000
5 Year GSP Update - Technical	688,450
Fault Investigation	330,000
Well Permit Review - Technical	12,000
<b>Total Technical Consulting</b>	4,597,117
<b>Other Technical Consulting</b>	
Monitoring Network	68,000
Stream Gauge Maintenance	56,650
<b>Total Other Technical Consulting</b>	124,650
<b>Total Program Expenses</b>	4,721,767
<b>Total COGS</b>	4,721,767
<b>Gross Profit</b>	29,790
<b>Expense</b>	
<b>General and Administrative</b>	
<b>GSA Executive Director</b>	
GSA BOD Meetings	111,397
Consult Mgmt and GSP Devel	73,351
Financial Information Coord	51,357
Funding Process (GWE Fee)	5,562
CBGSA Outreach	10,721
Adjudication Support	1,932
Management Area Admin	11,772
5-Year GSP Update - Admin	18,217
Water Use Enforcement	25,400
Well Permit Review - Admin	2,000
Travel and Direct Costs	5,691
<b>Total GSA Executive Director</b>	317,400
<b>Other Administrative</b>	
Legal	200,000
Insurance - D&O and General	16,603
Auditing/Accounting Fees	10,000
Other Admin Expense	200
Contingency	20,000
<b>Total Other Administrative</b>	246,803
<b>Total General and Administrative</b>	564,203
<b>Total Expense</b>	564,203
<b>Net Ordinary Income</b>	-534,413
<b>Net Income</b>	-534,413





TO: Board of Directors  
Agenda Item No. 9

FROM: Taylor Blakslee, Hallmark Group

DATE: November 1, 2023

SUBJECT: Review and Take Appropriate Action on SAC Membership Applications

**Recommended Motion**

Board direction requested.

**Discussion**

The Cuyama Basin Groundwater Sustainability Agency (CBGSA) Standing Advisory Committee (SAC) was established by the CBGSA to “advise the Board on implementation of the Sustainable Groundwater Management Act (SGMA) in the basin and to review the GSP before it is approved by the Board” (section 8.1 of the CBGSA joint exercise power agreement).

The SAC is made up of nine (9) committee members, but two positions have been vacant since May 2020. The SAC has been holding these positions for members of the Hispanic community but has been unable to fill them. Recently, the SAC expressed an interest in opening up these positions to interested parties and the below applications were received for consideration by the SAC, and on October 26, 2023, the SAC made a motion to recommend the below SAC appointments to the Board. Currently, three (3) positions are vacant/open on the SAC.

- Adams, Karen
- Caufield, John
- Lewis, David

**APPLICATION FOR MEMBERSHIP TO THE CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY'S STANDING ADVISORY COMMITTEE**

**What is your relationship to the Cuyama Basin? (Check all that apply)**

- Full-time resident       Representative of a landowner       Part-time resident  
 Work in the Cuyama Basin       Landowner       Other: \_\_\_\_\_

**In which geographic portion of the basin do you live/work/represent?**

**I live within the west side of the Central Management Area in the New Cuyama townsite.**

**Which county (or counties) has jurisdiction over your property? (Check all that apply)**

- Santa Barbara       San Luis Obispo       Kern       Ventura

**Why are you interested in serving on the Standing Advisory Committee for the Cuyama Basin GSA?**

**I have been a resident of the Cuyama Valley for over 19 years and I have followed the development of the Cuyama Basin GSA since its inception. I am concerned about the true long-term sustainability of the ground water within the Basin, along with the recent discussions and decisions being made by the GSA Board.**

**What unique experience or expertise will you contribute if appointed to the Standing Advisory Committee for the Cuyama Basin GSA? Explain any technical knowledge you have regarding water in the Cuyama Basin.**

**I was a paralegal for over 10 years (1984-1994) in Los Angeles specializing in environmental law issues. I was a CCSD Board Member from 9/2009 to 6/2011. I am familiar with the Original GSP, the 2022 Resubmitted GSP, and numerous other documents and reports released through the Cuyama Basin GSA.**

**The Cuyama Basin GSA Groundwater Sustainability Plan (GSP) has been submitted to the California Department of Water Resources and is currently being implemented in the basin. Please describe your knowledge of the GSP and your participation in public meetings related to the GSP to date.**

**I view the 2022 Resubmitted GSP as the overarching document that not only lays out the goals to reach sustainability of the Cuyama Basin ground water but governs how sustainability will be reached by 2040. I have participated in public meetings, whenever possible, and relied upon the CuyamaBasin.org website to stay abreast of developing issues when I have been unable to participate in public meetings.**

**If you are appointed to the Standing Advisory Committee for the Cuyama Basin GSA, it will require you to be available for at least 6 meetings per year (meetings every other month) and to be prepared for each meeting by reading the necessary documents. The total time commitment may range from 5 to 15 hours or more per month with no compensation. Are you aware of this and prepared to take on this commitment?**

**Yes.**

**Name (Print):**                    **Karen Adams**

**Name (Signature):**         

**Date:**                            **October 18, 2023**

**APPLICATION FOR MEMBERSHIP TO THE CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY'S  
STANDING ADVISORY COMMITTEE**

**What is your relationship to the Cuyama Basin? (Check all that apply)**

- Full-time resident       Representative of a landowner       Part-time resident  
 Work in the Cuyama Basin       Landowner       Other: \_\_\_\_\_

**In which geographic portion of the basin do you live/work/represent?**

*Western Region, 868 acres on Wasioja Road and residential property in the townsite*

**Which county (or counties) has jurisdiction over your property? (Check all that apply)**

- Santa Barbara       San Luis Obispo       Kern       Ventura

**Why are you interested in serving on the Standing Advisory Committee for the Cuyama Basin GSA?**

*My family has been involved in agriculture and the Cuyama Valley since my parents purchased the Richardson/Heath ranch in 1963. As the second family to the own and operate this homestead (1887) property, I have deep ties to the property and strong sense of responsibility to not only my family but the Richardson and Health families to see a legacy continue. Water is a critical resource for us, it is key to the viability of the valley and all residents. The GSA and resulting GSP will impact the short- and long-term availability and quality of the valley's ground water. As the owner/operator of a small ranch I have a direct interest in the GSA process and the resulting GSP and look forward to assisting with the success of that process. I feel that I can offer a perspective shared by other small ranches and that my experience can offer value to the SAC and the GSA.*

**What unique experience or expertise will you contribute if appointed to the Standing Advisory Committee for the Cuyama Basin GSA? Explain any technical knowledge you have regarding water in the Cuyama Basin.**

*I have extensive experience in the design, installation, and repair of pumps, piping and storage systems, the associated metering, and the required State and local reporting of water use. This experience stems from work that I performed on my own property and work that I performed as an Officer in the Navy Civil Engineer Corp. I hold a "Flow Measurement Devices and Methods" certificate from the UC Agricultural extension (which is recognized by the State of California (CAL SB-589) ). Specific to my property in the Western region, I am familiar with the down-hole formations and base of fresh water from the CAL DOGGR well data and the long term and recent (1965 to current and 2017 to current) performance of the wells on my property.*

*I am a licensed Mechanical Engineer (2001), with a Bachelor (1997) and Master of Science (2001) degrees from Cal-Poly SLO with an emphasis in Fluid Mechanics and Thermodynamics. Additionally, through my experience as a thermal analyst (2001 to 2017) and as a Supervising Engineer (2017 to current) at the Naval Air Weapons Center, China Lake, I am specifically versed in modeling of physical phenomena, data reduction, and confidence (error approximation and tracking).*

*I believe my direct application, education, and engineering experience would be beneficial in the understanding, interpretation, and ultimately the application of the substantial modeling effort that has been on-going in support of the GSA.*

**The Cuyama Basin GSA Groundwater Sustainability Plan (GSP) has been submitted to the California Department of Water Resources and is currently being implemented in the basin. Please describe your knowledge of the GSP and your participation in public meetings related to the GSP to date.**

*I have a general knowledge of the GSP outline, goals, data collection plan, and ground water use reduction plan; I have a more detailed knowledge of the topics that more directly impact/potentially impact my properties. An overview, the initial GSP from the Cuyama Basin Ground Water Sustainability Agency was submitted in 2021. The State Water Control Resources Board did not approve that submission, returning the document as "incomplete" with comments (January 2022) to the GSA for revision and update. In July 2022, a revised version of the GSP was submitted, this version was subsequently approved in March 2023. The GSP as currently written, identifies three management areas/regions within the Cuyama Basin boundary, Western (Russel Fault), Central Management Area (CMA), and Eastern (Santa Barbara Canyon Fault). The primary and initial focus of the GSA and the resulting GSP, has been on the CMA due to the greater abundance of agriculture and actualized over-draft. Currently the GSP demands yearly compounded reductions in extracted ground water in the CMA until the basin reaches sustainability (targeted for 2038). While not the initial focus, there are concerns for over-draft in the Eastern and Western regions that future GSA actions and GSP implementation will be required to address. While ground water level and extraction volume are the predominate topic, the GSP also addresses water quality, applying total dissolved solids, toxic element content, nitrate and other undesirable mineral content as metrics.*

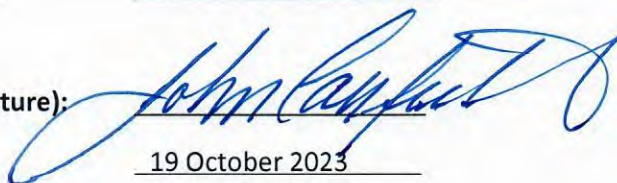
*Since 2019, I have participated in numerous meetings both in-person and on-line along with significant e-mail and phone communication with GSA and SAC Board members, Woodward and Curran team, and GSA support staff. I have offered my comments, concerns, and recommendations on both general and specific technical issues; such as, the data collection methodology for assessing irrigated land in the Western region and the clarity of ground water model results.*

**If you are appointed to the Standing Advisory Committee for the Cuyama Basin GSA, it will require you to be available for at least 6 meetings per year (meetings every other month) and to be prepared for each meeting by reading the necessary documents. The total time commitment may range from 5 to 15 hours or more per month with no compensation. Are you aware of this and prepared to take on this commitment?**

*Yes, I have already committed substantial time to this process and am prepared to continue my support to help ensure the best outcome for the residents and businesses in the Cuyama Valley.*

**Name (Print):** John Caufield, P.E.

**Name (Signature):**



**Date:** 19 October 2023





TO: Board of Directors  
Agenda Item No. 10a-j

FROM: Jim Beck / Brian Van Lienden

DATE: November 1, 2023

SUBJECT: Groundwater Sustainability Plan Amendment Components (Item Nos. 10a-j)

### **Recommended Motion**

Provide feedback on each Groundwater Sustainability Plan Amendment (GSP) component.

### **Discussion**

On July 12, 2023, the Cuyama Basin Groundwater Sustainability Agency Board of Directors reviewed a schedule for updating the Groundwater Sustainability Plan (GSP) ahead of the January 2025 deadline. A public workshop was held on October 12, 2023 to present information on the September and November 2023 meeting topics and to receive feedback from public stakeholders.

A brief overview of the GSP component update schedule, an overview of the public workshop, an overview of Board feedback received on the previously discussed September 2023 GSP components, and the new November 2023 GSP components are included as Attachment 1 and listed below. New GSP components are listed as either “initial discussion,” or “final discussion” and are indicated as such on each item.

- a. Update on GSP Components Schedule
- b. Overview of Public Workshop on October 12, 2023
- c. Update on September 2023 GSP Component Discussion
- d. Discuss and Take Appropriate Action on Groundwater Subsidence Monitoring Network [Final Discussion]
- e. Discuss and Take Appropriate Action on Groundwater Interconnected Surface Water (ISW) Monitoring Network [Final Discussion]
- f. Discuss and Take Appropriate Action on Groundwater Water Quality Monitoring Network [Final Discussion]
- g. Discuss and Take Appropriate Action on Sustainable Management Criteria and Undesirable Results Criteria for Groundwater Subsidence [Initial Discussion]
- h. Discuss and Take Appropriate Action on Sustainable Management Criteria and Undesirable Results Criteria for Groundwater Interconnected Surface Water (ISW) [Initial Discussion]
- i. Discuss and Take Appropriate Action on Sustainable Management Criteria and Undesirable Results Criteria for Groundwater Water Quality [Initial Discussion]
- j. Discuss and Take Appropriate Action on Glidepath Methodology [Initial Discussion]

Cuyama Basin Groundwater Sustainability Agency

6a. Update on GSP Components Schedule

October 26, 2023



# GSP Update and Board Policy Discussions Schedule

	1	2	3	4	5	6	7	8	9	10	
	2023			2024							2025
	July	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	
<b>Board Direction:</b>	<b>Finalize:</b> Feedback on engagement strategy	Basin-wide pumping restrictions/Central Management Area (CMA) boundary  <b>Finalize:</b> Groundwater (GW) levels & storage monitoring networks  GW levels & storage sustainable management criteria (SMC) and undesirable results (UR) criteria options  Allocation methodology	<b>Finalize:</b> <b>Subsidence, Interconnected surface water (ISW), and water quality (WQ) monitoring networks</b>  GW subsidence ISW, and WQ SMC and UR options  Glidepath methodology	<b>Finalize:</b> GW levels, storage, subsidence, ISW, WQ SMC and UR	Project and Management Action (PMA) options  Sustainable yield (SY) methodology  Issue 90-Day Notice	<b>Finalize:</b> <ul style="list-style-type: none"> <li>Basin-wide Pumping Restrictions/MA Boundary (updated model)</li> <li>Allocation methodology</li> <li>Glidepath methodology</li> <li>PMA options</li> <li>SY approach</li> </ul>		Review Public draft	<b>**Public Hearing to adopt Amended GSP</b>		
<b>GSP Chapter Review:</b>				<b>Ch 1. Agency Info/Plan Area</b> <b>Ch 4. Monitoring Network</b>		<b>Ch 2. Basin Setting</b> <b>Ch 3. URs</b> <b>Ch 5. SMCs</b>	<b>Ch 6. DMS</b> <b>Ch 7. PMAs</b>	<b>Ch 8. Plan Implementation Executive Summary</b>			
<b>Public Workshop</b>		✓			✓			✓			



## Cuyama Basin Groundwater Sustainability Agency

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# 6b. Overview of Public Workshop on October 12, 2023

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October 26, 2023



# Purpose and Agenda

- Purpose: Hear initial community input to inform the 2025 update of the Cuyama Basin Groundwater Sustainability Plan (GSP)
- Agenda:
  - Activities and progress since 2020 GSP
  - GSP Update process and timeline
  - Groundwater monitoring activities and updates
  - Criteria for evaluating groundwater sustainability
  - Approach to groundwater pumping allocations
  - Next Steps

# Summary

- Workshop was held on October 12, 2023 from 6-8 pm in the Cuyama Recreation District
- It was well attended with 43 attendees, including:
  - 32 in-person
  - 11 online
  - 2 members of the Hispanic community
- Spanish language interpretation was provided by California Department of Water Resources Facilitation Services
- Feedback provided will be noted in subsequent presentation slides, in addition to some general feedback in the next slide

# General Workshop Feedback

- Distribute public workshop materials in advance of meeting
- Provide more background information on the GSA and GSP at public workshops
- The GSA should consider engaging in the adjudication
- Consider the potential impact of draft Assembly Bill 779
- Add major roads to maps in addition to the Highways

Cuyama Basin Groundwater Sustainability Agency

# 6c. Update on September 2023 GSP Component Discussion

October 26, 2023



# Summary

- The Board provided feedback in the following topic areas:
  - Pumping reductions
  - Basin-wide pumping
  - Central Management Area boundary
  - Sustainability Criteria and Undesirable Results (GWLs and storage)
- More detailed options will be developed and presented to the Board, SAC and Tech Forum in future meetings

# Pumping Reductions – General Comments

- **General Board Comments:**
  - Wait to consider changes until evaluating success of current pumping reduction program
  - Consider transition to using metered data
  - Keep it simple
  - Consider hybrid options
  - Consider variance pool idea
- **Additional policy items not presented to Board:**
  - Carryover
  - Water markets
  - Software tracking (monthly view for landowner)

# Tech Forum Feedback (10-3-2023)

- Transition to using metered data is very important
- Support carryover, water market and variance pool concepts



# Public Workshop Feedback (10-12-2023)

- Consider doing stormwater capture and recharge projects in addition to pumping reductions
- Concern with using historical use as a basis for pumping allocations
- Consider requiring a greater pumping reduction by larger pumpers, perhaps by using a tiered system for pumping reductions
- Farmers should consider transitioning to lower water use crops
- Consider pumping allocations in the Northwest region

# Basin-wide pumping – General Comments

- General Comments:
  - Do nothing is not an option
  - Consider a Basin-wide solution
  - Not ready to broaden beyond the CMA
  - Focus on irrigated lands
  - Better identify which areas are in overdraft and manage those areas appropriately
  - Manage the basin based on science

# Tech Forum Feedback (10-3-2023)

- Support for basin management based on in field empirical data that is then incorporated into the model

# Public Workshop Feedback (10-12-2023)

- Since the basin is one interconnected watershed, the GSA should consider applying pumping allocations to everyone

# Central Management Area Boundary – General Comments

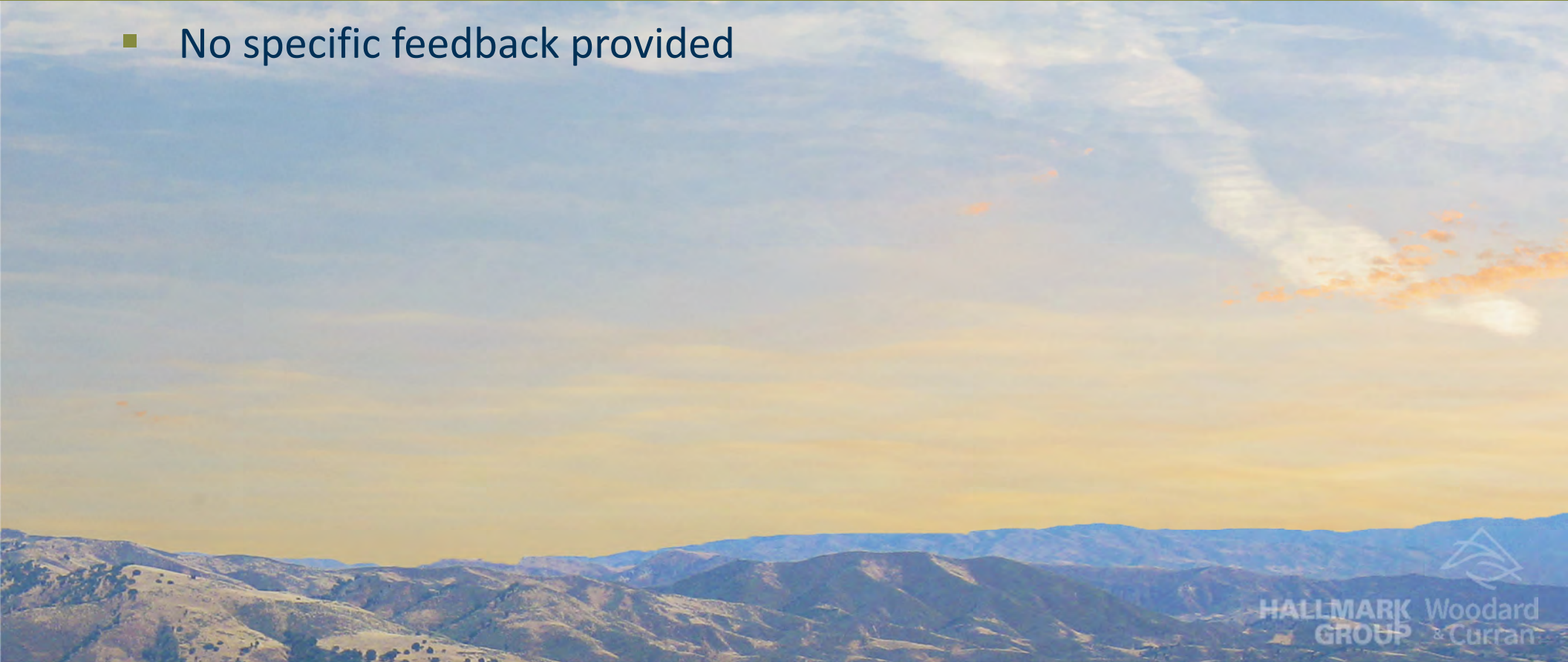
- General Comments:
  - Consider location of nearby wells re: boundary adjustment
  - Consider fixed boundary
  - Consider other options outside of a model-based boundary
  - Evaluate where water is pumped and where it's going
  - Look at how successful we are in current CMA implementation
  - Support for Tech Forum feedback:
    - Similar hydrologic/geologic areas should be managed together
    - Support for physical feature-based management approach
    - Dynamic boundary makes it harder for agricultural planning; fixed boundary is most practical for planning purposes
    - Consider impact to potential water markets

# Tech Forum Feedback (10-3-2023)

- Implementing management areas is the biggest issue to be determined
- Support for hydrogeologic-based management area boundaries
- Fixed boundaries are preferable for landowner planning purposes

# Public Workshop Feedback (10-12-2023)

- No specific feedback provided



# Sustainable Management Criteria and Undesirable Results for GW Levels – General Comments

- **Minimum Thresholds**
  - Consider depth of the well
  - Consider projections under glidepath and impacts to beneficial uses and users
  - Reconsider use of threshold regions and potential simplified methodology
  - If threshold regions remain, consider potential gradient impacts
  - Review historic data of RMW wells to verify no red flags
  - Consider MTs based on well protection depth and GDE locations
  - Well-by-well analysis in setting MT
- **Measurable Objectives**
  - General support for minimum buffer
  - Ensure wells have appropriate MOOF
- **Undesirable Results**
  - Consider impacts to beneficial uses and users
  - Continue with basin-wide definition



# Tech Forum Feedback (10-3-2023)

- For representative wells, need to understand age, well depth, screened intervals and pump depths to the extent possible
  - Consider a program for addressing these data gaps (e.g. down well surveys, using temperature to determine screened intervals)
- If we continue to use threshold regions, need to better understand gradients between different regions

# Public Workshop Feedback (10-12-2023)

- Preference by some stakeholders for the most conservative approach for minimum thresholds
- Consider including permanent loss of groundwater storage as part of the undesirable results definition
- Consider adding more visual displays of basin sustainability criteria and conditions to GSA website or DMS

Cuyama Basin Groundwater Sustainability Agency

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## 6d. Subsidence Monitoring Network

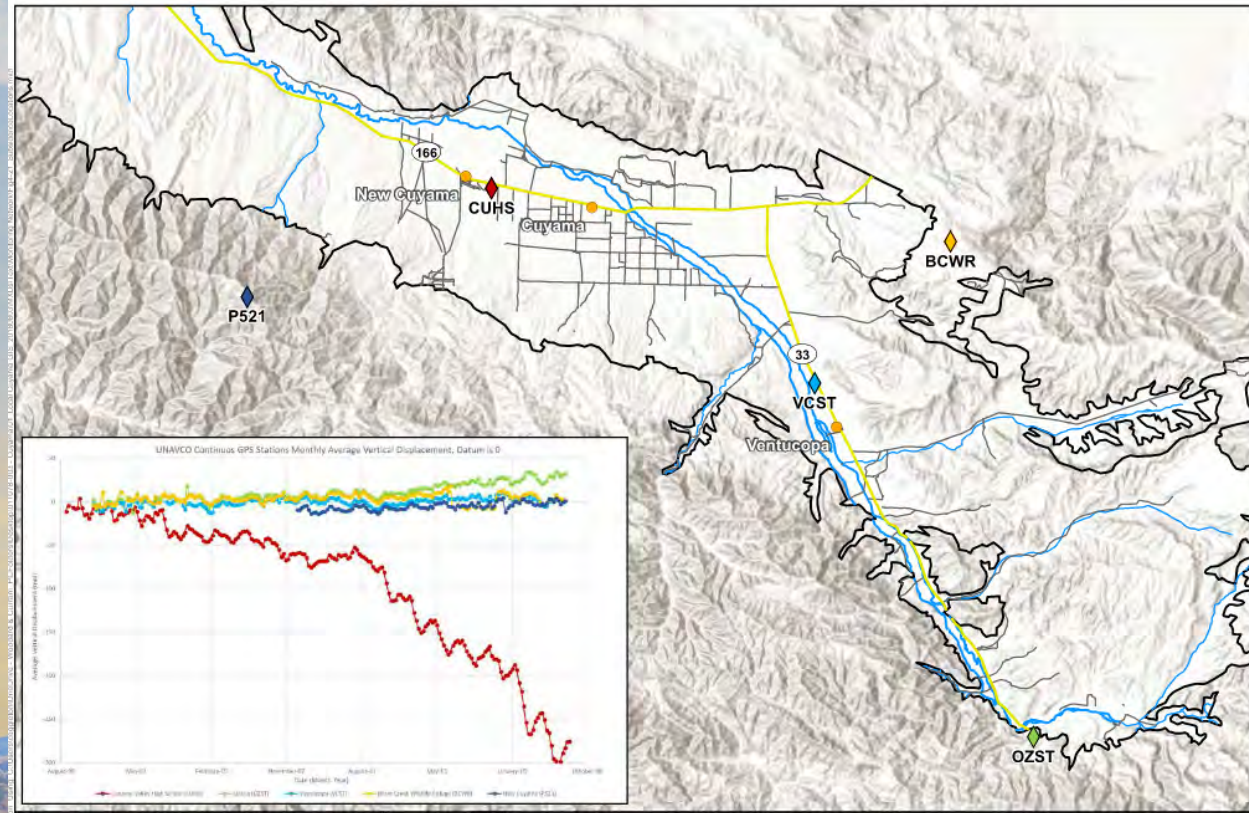
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October 9, 2023



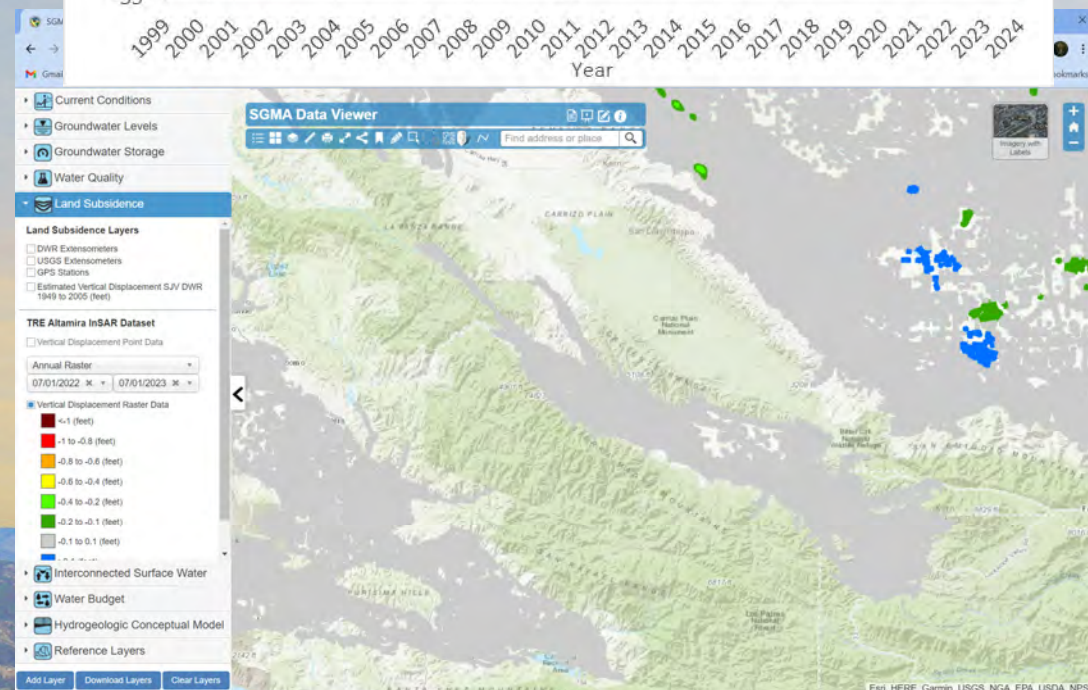
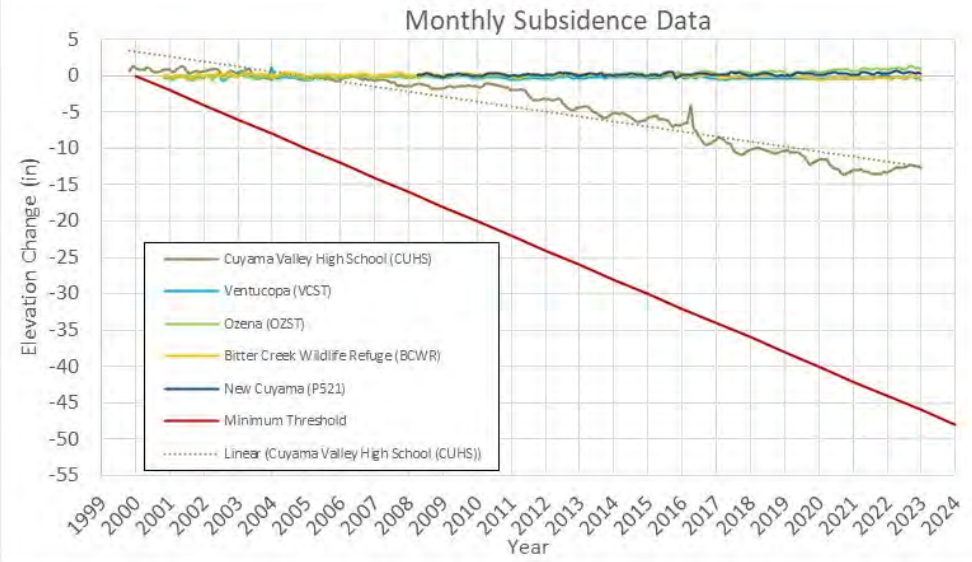
# GSP Approach

- **GSP Section 4.9 (p. 4-60)** describes the development of the subsidence monitoring network
  - Five existing stations are included; the two within the basin are representative
  - none are managed by the CBGSA



# Subsidence Reporting Resources and Options for Future GSP Monitoring

- **Subsidence Monitoring Resources:**
  - GSA monitoring network
  - TRE Altamira InSAR Dataset at <https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer>
  
- **Potential Options for GSP Monitoring Network:**
  1. **Staff recommendation:** Continue with the same network
  2. Add new stations
  3. Remove existing stations

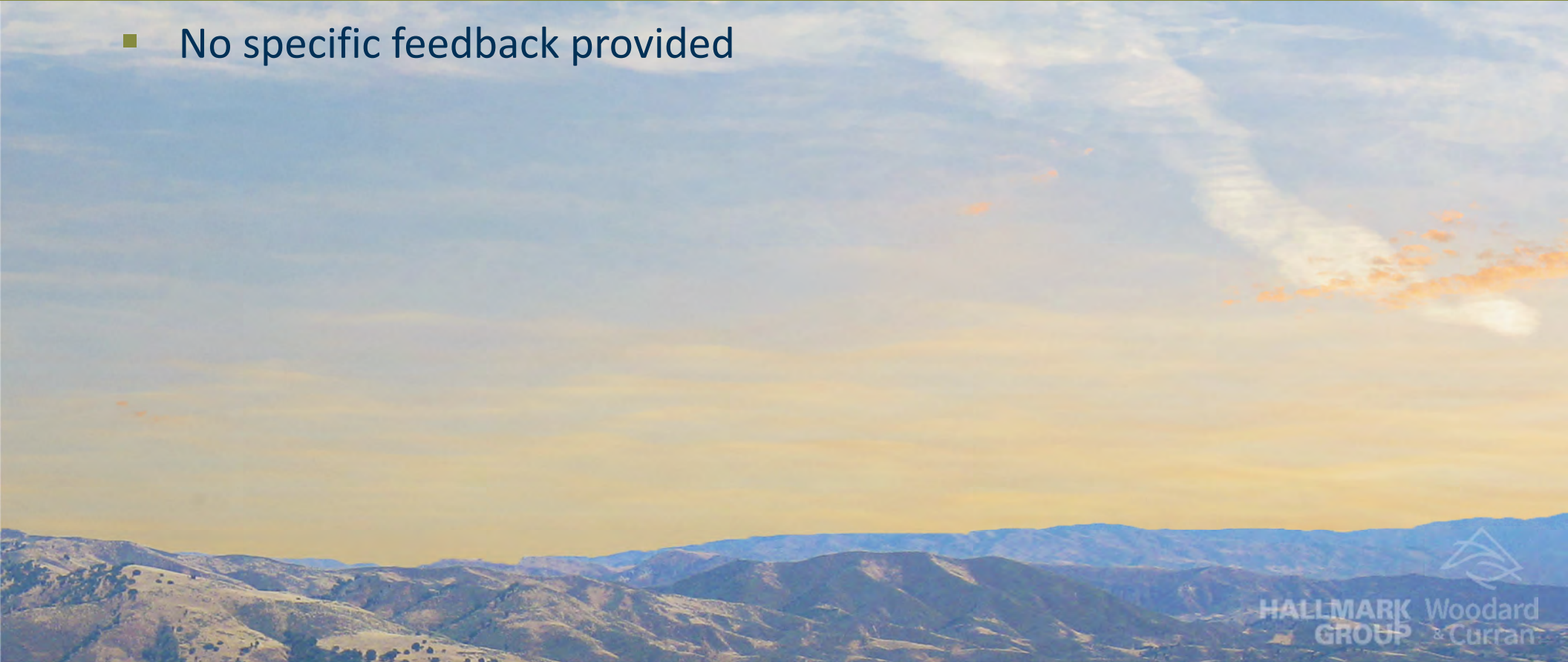


# Tech Forum Feedback (10-3-2023)

- General support for staff recommendation
- Adding new stations would not be cost effective
- Consider reviewing high school station to ensure that data is accurate (i.e. review surface compaction, depth & construction information of extensometer)

# Public Workshop Feedback (10-12-2023)

- No specific feedback provided



Cuyama Basin Groundwater Sustainability Agency

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# 6e. Interconnected Surface Water Monitoring Network

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October 9, 2023

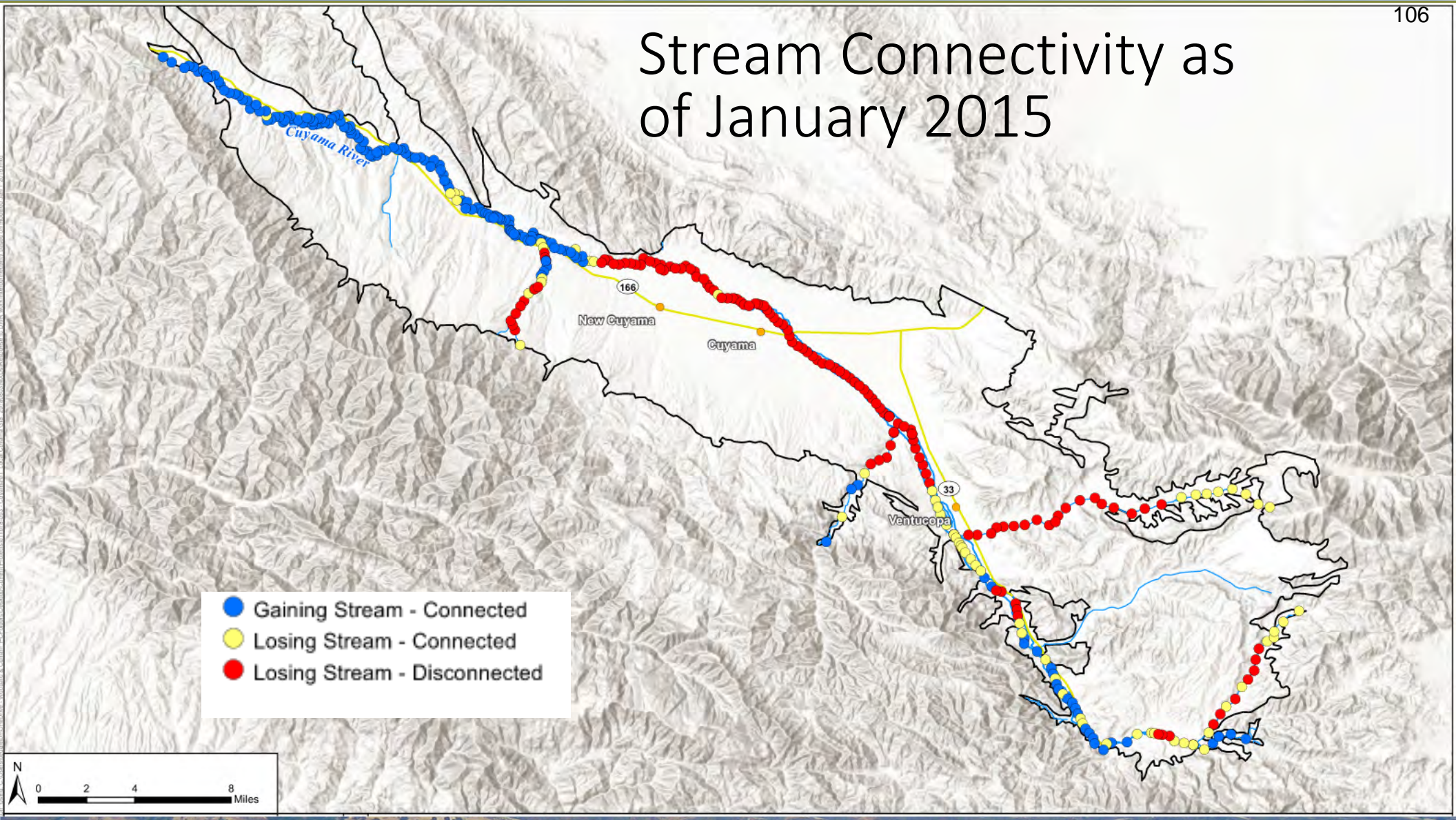




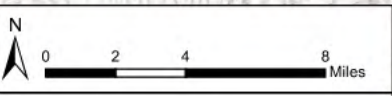
# GSP Approach and DWR Corrective Action and Upcoming ISW Guidance

- **Supplemental GSP Section 4.10 (p. 4-68)** describes the development of the ISW monitoring network
  - Selection criteria: wells within 1.5 miles of Cuyama River with screened interval less than 100 feet
  - ISW monitoring network includes 9 representative wells and 3 other wells
- **DWR Corrective Action 2:**
  - Utilize DWR's ISW guidance as appropriate
  - Continue to fill data gaps, collect additional monitoring data, and implement the current strategy to better understand and manage ISW
  - Prioritize collaboration with local, state and federal regulatory entities and other interested parties to better understand beneficial uses and users that may be impacted by pumping-induced surface water depletion
- DWR intends to provide ISW guidance by spring and fall 2024

# Stream Connectivity as of January 2015



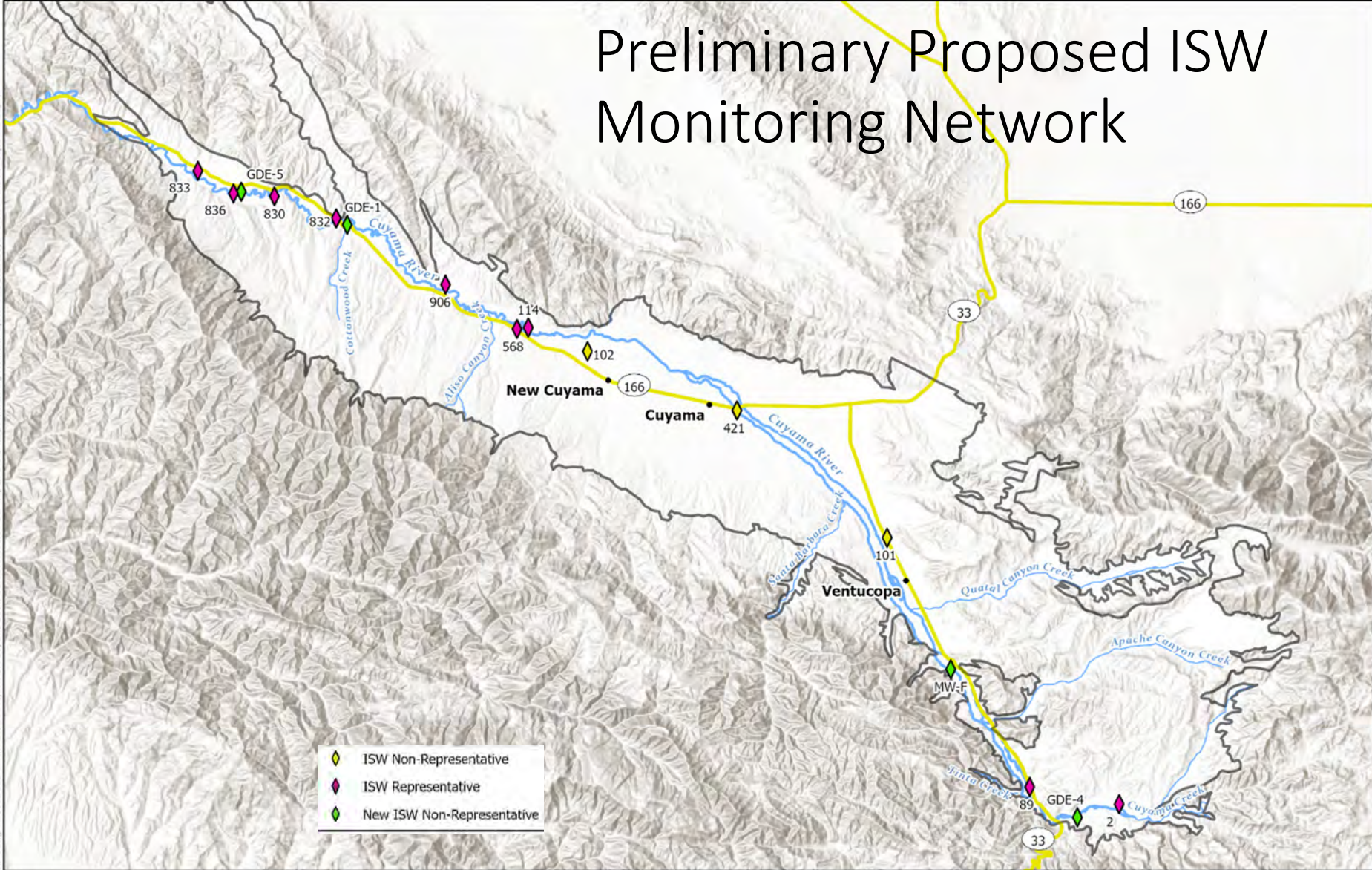
- Gaining Stream - Connected
- Losing Stream - Connected
- Losing Stream - Disconnected



# Preliminary Recommendation for ISW Monitoring Network

- Staff recommends waiting until DWR issues ISW guidance before selecting an approach
- Preliminary recommendation is to add newly installed piezometers and shallow multi-completion well to be installed using grant funding to the existing ISW network

# Preliminary Proposed ISW Monitoring Network

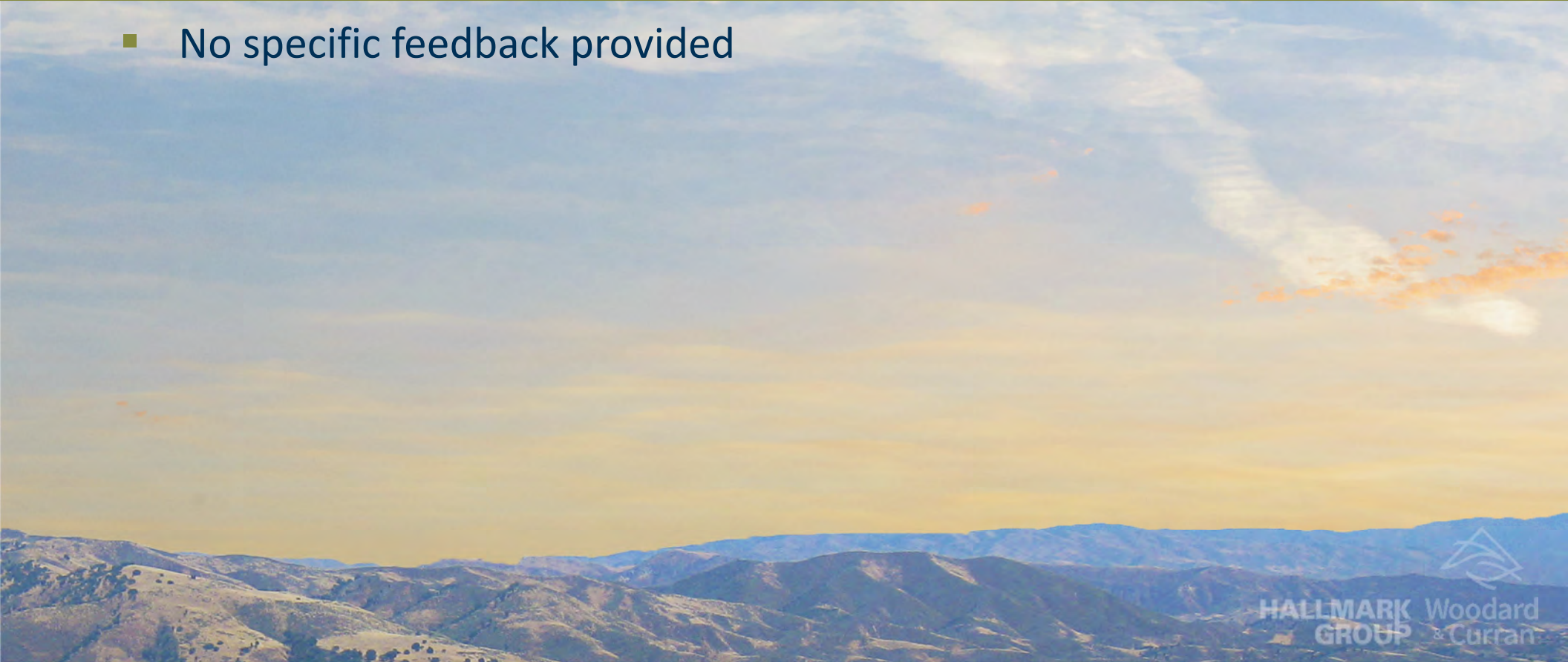


# Tech Forum Feedback (10-3-2023)

- General agreement to wait for DWR guidance before making decisions

# Public Workshop Feedback (10-12-2023)

- No specific feedback provided



Cuyama Basin Groundwater Sustainability Agency

## 6f. Groundwater Quality Monitoring Network

October 9, 2023



# GSP Approach

- **GSP Section 4.8 (p. 4-50)** describes the development of the Groundwater quality monitoring network
  - Included 64 wells, all were representative wells
  - Monitoring was for TDS only, not nitrates or arsenic
  - Monitoring frequency is one measurement per year
- Subsequent to GSP development, the following non-representative wells have been added:
  - TSS wells (9)
  - New transducers installed by CBGSA (3)



# Groundwater Quality Monitoring Network included in the GSP



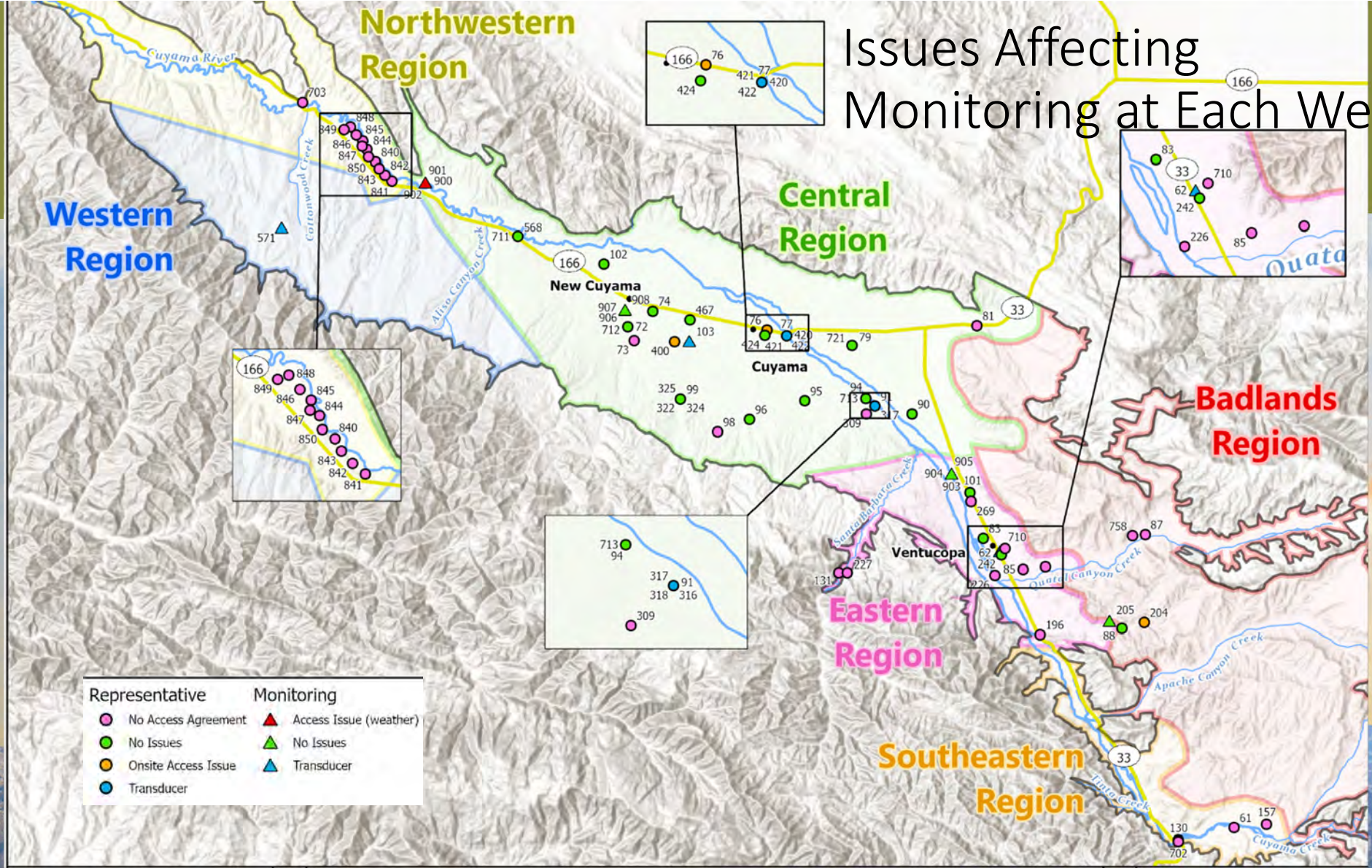
The map displays the Cuyama Valley region with a topographic background. A yellow line traces the valley floor, and a blue line shows the Cuyama River. Several faults are marked with red dashed lines and labeled: Russell Fault, Turkey Trap Ridge Fault, Graveyard Ridge Fault, and Santa Barbara Canyon Fault. Towns are labeled: New Cuyama, Cuyama, and Ventucopa. A network of green dots represents monitoring wells, with a higher density in the northern and eastern parts of the valley. A legend in the bottom left corner identifies the green dots as 'Representative Wells and Groundwater Quality Monitoring Network Wells'.

● Representative Wells and Groundwater Quality Monitoring Network Wells

# Review of Groundwater Quality Monitoring Network (TDS)

- The existing groundwater quality monitoring wells were reviewed with respect to the following issues:
  - Lack of landowner agreement for monitoring
  - Access issues due to issues at the wellsite
  - Access issues due to weather
  - Whether the well is projected to go dry between now and 2030

# Issues Affecting Monitoring at Each Well

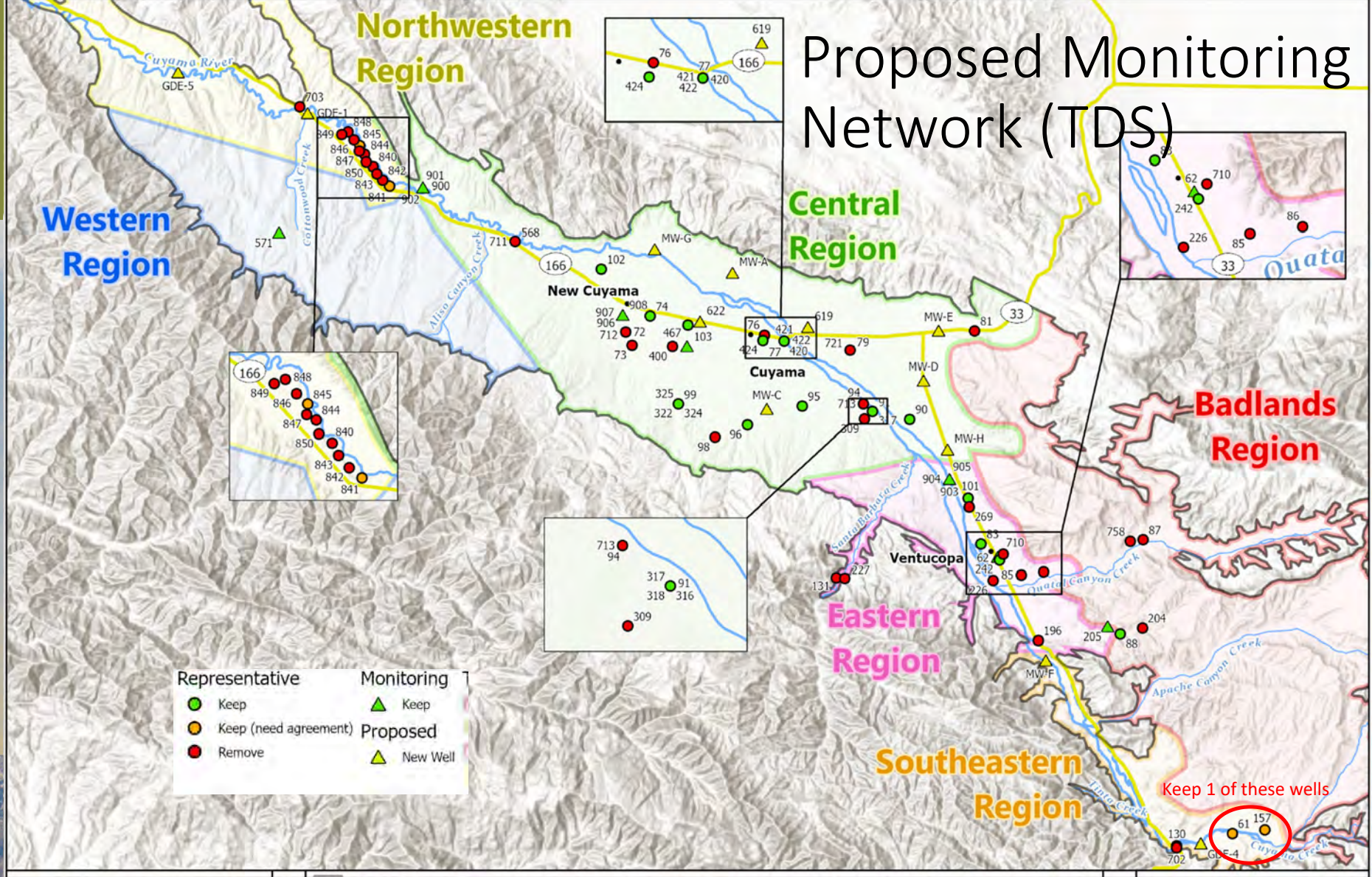


Representative	Monitoring
	No Access Agreement
	No Issues
	Onsite Access Issue
	Transducer
	Access Issue (weather)
	No Issues
	Transducer

# Recommendation for Groundwater Quality Monitoring Network (TDS)

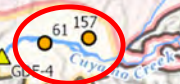
- Representative wells:
  - Include all existing wells with an existing agreement where monitoring is still possible
  - Remove well 204 (which is a surface water seep not appropriate for monitoring)
  - Remove all other wells except for (agreement would be required):
    - Wells 841 and 845 (Northwestern Region)
    - Either well 61 or 157 (Southeastern Region)
- Other Monitoring wells:
  - Keep all existing wells (including well 205 which has replaced well 204)
  - Add new piezometers and multi-completion monitoring wells that will be constructed this year under the DWR grant
- Revised network would include 58 wells, 27 of which are representative wells

# Proposed Monitoring Network (TDS)



Representative	Monitoring
<span style="color: green;">●</span> Keep	<span style="color: green;">▲</span> Keep
<span style="color: orange;">●</span> Keep (need agreement)	<span style="color: yellow;">▲</span> Proposed
<span style="color: red;">●</span> Remove	<span style="color: yellow;">▲</span> New Well

Keep 1 of these wells

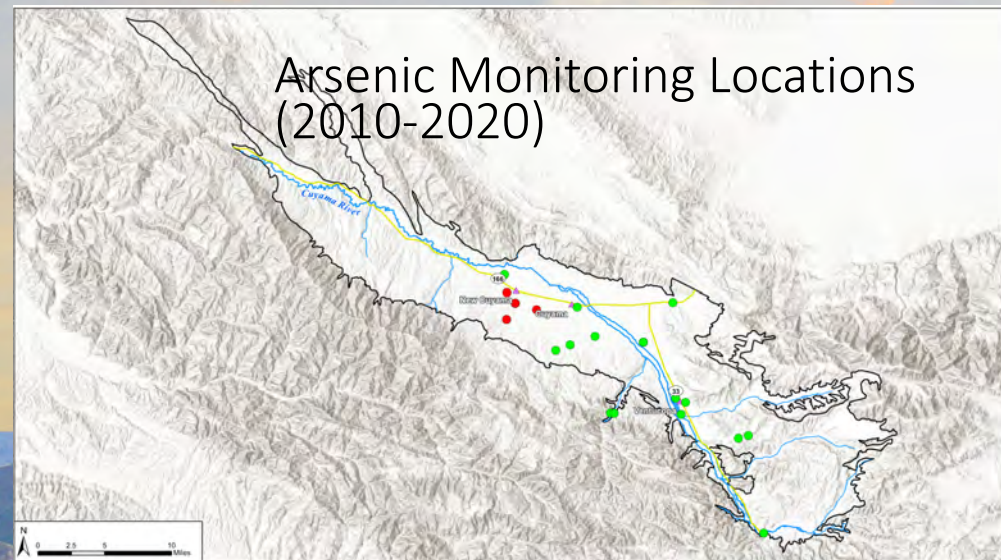
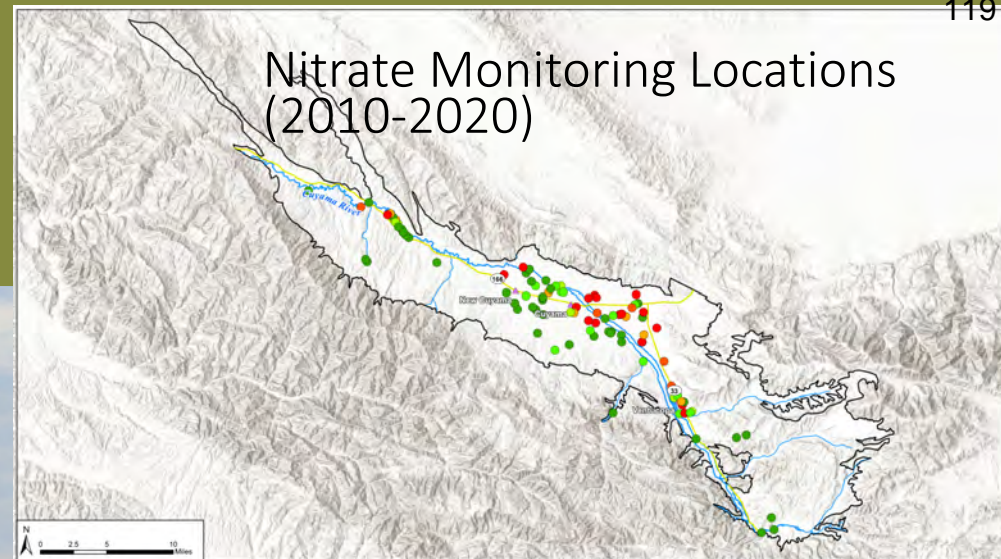


# GSP Approach and DWR Corrective Action on Monitoring for Arsenic and Nitrates

- **GSP Section 4.8:** “there is no evidence to suggest a causal nexus between potential actions under the CBGSA’s authority and arsenic or nitrates ... Because arsenic occurs in the subsurface at different elevations and densities throughout the Basin, arsenic issues are localized and different at each well location. Since the CBGSA is only granted authority to affect the amount of water pumped across portions of the Basin, it is not possible for the CBGSA to successfully manage arsenic levels, and setting thresholds on an unmanageable constituent could cause unnecessary intervention by the SWRCB. Therefore, the groundwater quality network has been established to monitor for salinity but does not consider arsenic or nitrates at this time. The CBGSA will cooperate with other agencies that may perform monitoring of other constituents to the extent possible.”
- **DWR Correction Action 5:** “Clarify the GSA’s intent to perform ongoing measurements and analysis of groundwater samples for arsenic and nitrate ... Discuss the frequency of the ongoing measurements for nitrate and arsenic.”

# Options for Monitoring of Arsenic and Nitrates

1. Confirm current policy:
  - a. Clarify that the results of ongoing arsenic and nitrates monitoring by other entities are used by the CBGSA
2. Initiate a GSA-led monitoring program for arsenic and nitrates, with monitoring performed at same locations as TDS wells
  - a. Perform monitoring **every year**
  - b. Perform monitoring **once every 5 years** to correspond with GSP updates
3. **Staff Recommendation:**
  - A combination of #1 and #2b



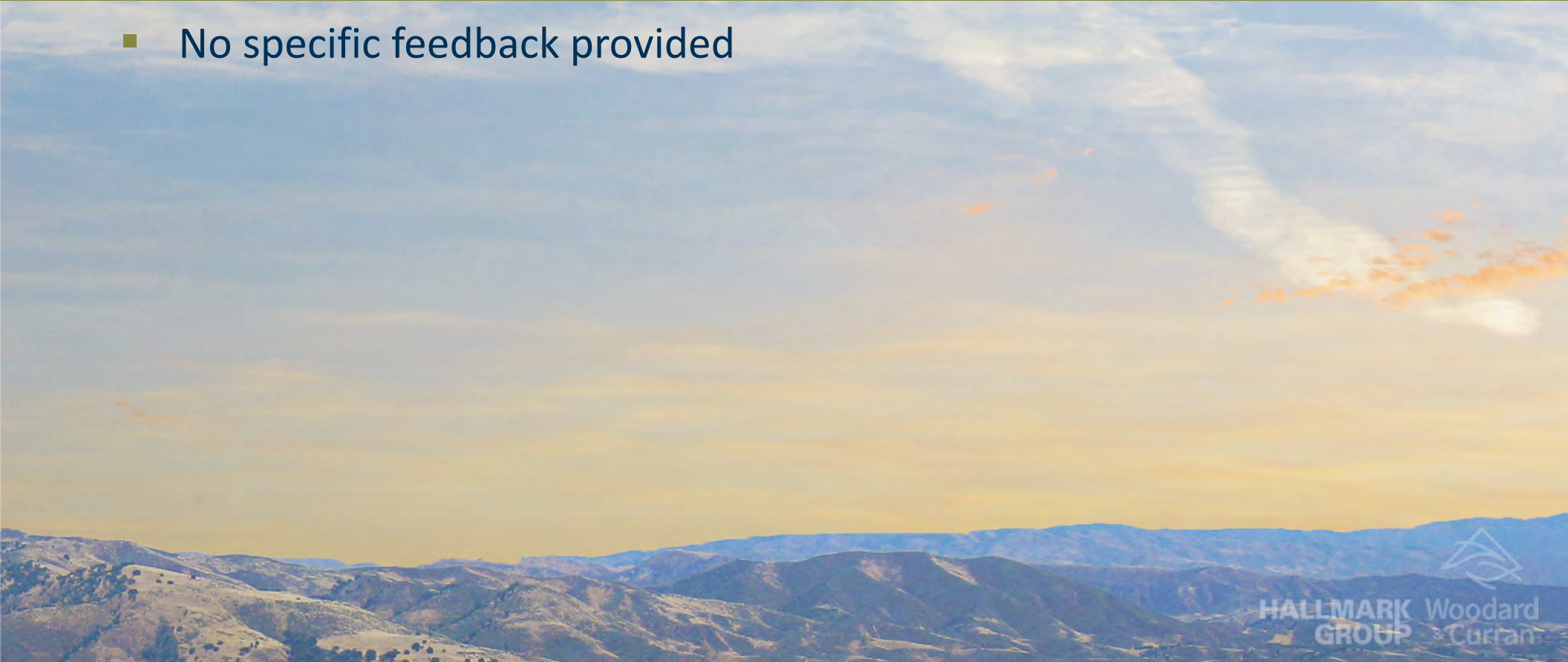
# Tech Forum Feedback (10-3-2023)

- TDS monitoring network:
  - General agreement in support of staff recommendation for TDS monitoring network, with the following suggest revisions:
    - Consider adding or keeping TDS monitoring wells to fill spatial data gaps in Badlands and Western region
    - Consider reviewing the vertical coverage of current network to see if there are any duplicative wells
- Nitrates and Arsenic:
  - General agreement to continue with current Board policy and consider some GSA monitoring if necessary



# Public Workshop Feedback (10-12-2023)

- No specific feedback provided



Cuyama Basin Groundwater Sustainability Agency

# 6g. Subsidence Sustainable Management Criteria and Undesirable Results Definitions

October 26, 2023



# GSP Approach and Potential Options

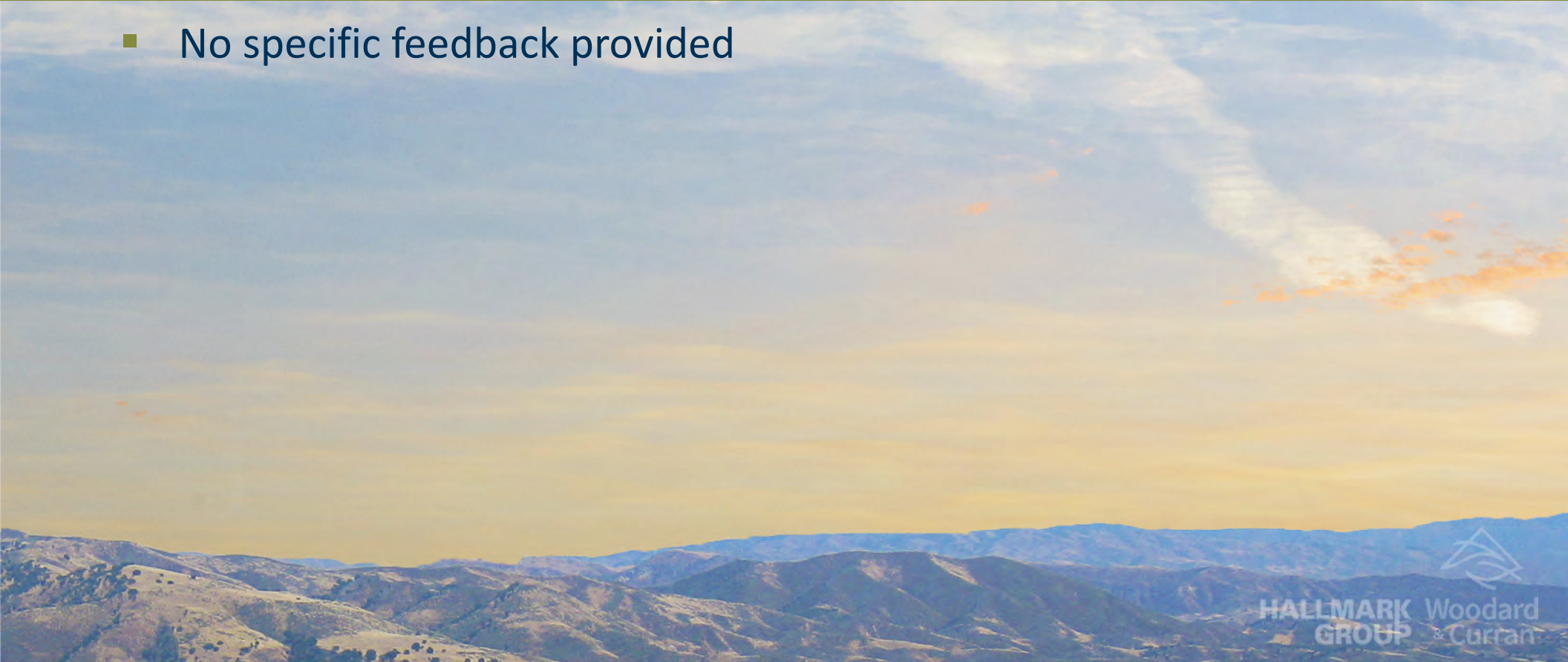
- **GSP Section 3.3.5 Identification of Undesirable Results (p. 3-7):** “(This result) is considered to occur during GSP implementation when 30 percent of representative monitoring wells (i.e., 1 of 2 wells) exceed minimum threshold for subsidence for two consecutive years.”
- **GSP Section 5.6.3 Subsidence (p. 5-23):**
  - “Because current subsidence rates (approximately 0.8 inches per year) are not significant and unreasonable, the MT rate for subsidence was set at 2 inches per year to allow for flexibility as the Basin works toward sustainability in 2040.”
  - “The MO for subsidence is set for zero lowering of ground surface elevations.”
- **Potential Options:**
  1. Continue to use the same UR definition, MT and MO
  2. Adjust the MT rate of subsidence to reflect more recent data

# Tech Forum Feedback (10-3-2023)

- General support for keeping the same approach
- Consider ground-truthing of Cuyama High School station data

# Public Workshop Feedback (10-12-2023)

- No specific feedback provided



Cuyama Basin Groundwater Sustainability Agency

# 6h. Interconnected Surface Water Management Criteria and Undesirable Results Definitions

October 26, 2023



# GSP Approach and Potential Options

- **Supplemental GSP Section 3.3 (p. 3-10):** “With respect to the Depletions of Interconnected Surface Water (ISW) – in conjunction with a representative monitoring network specific to ISW - the UR for ISW has been modified to be considered to occur during GSP implementation when at least 30 percent of representative ISW monitoring wells (i.e., 3 of 9) fall below their minimum groundwater elevation thresholds for two consecutive years.”
- **Supplemental GSP Section 4.10 (p. 4-68)** describes minimum thresholds and measurable objectives for the ISW representative wells
  - MTs and MOs at each well are the same for ISW as they are for GW levels
- **DWR intends to provide ISW guidance by spring and fall 2024**
- **Potential Options:**
  1. Wait for DWR Guidance (expected by Spring 2024)
  2. Continue to use the same UR definition, MT and MOs
  3. Use a different criteria for ISW than for groundwater levels at each well
    - E.g. Perform technical analysis to relate stream depletions to changes in groundwater levels

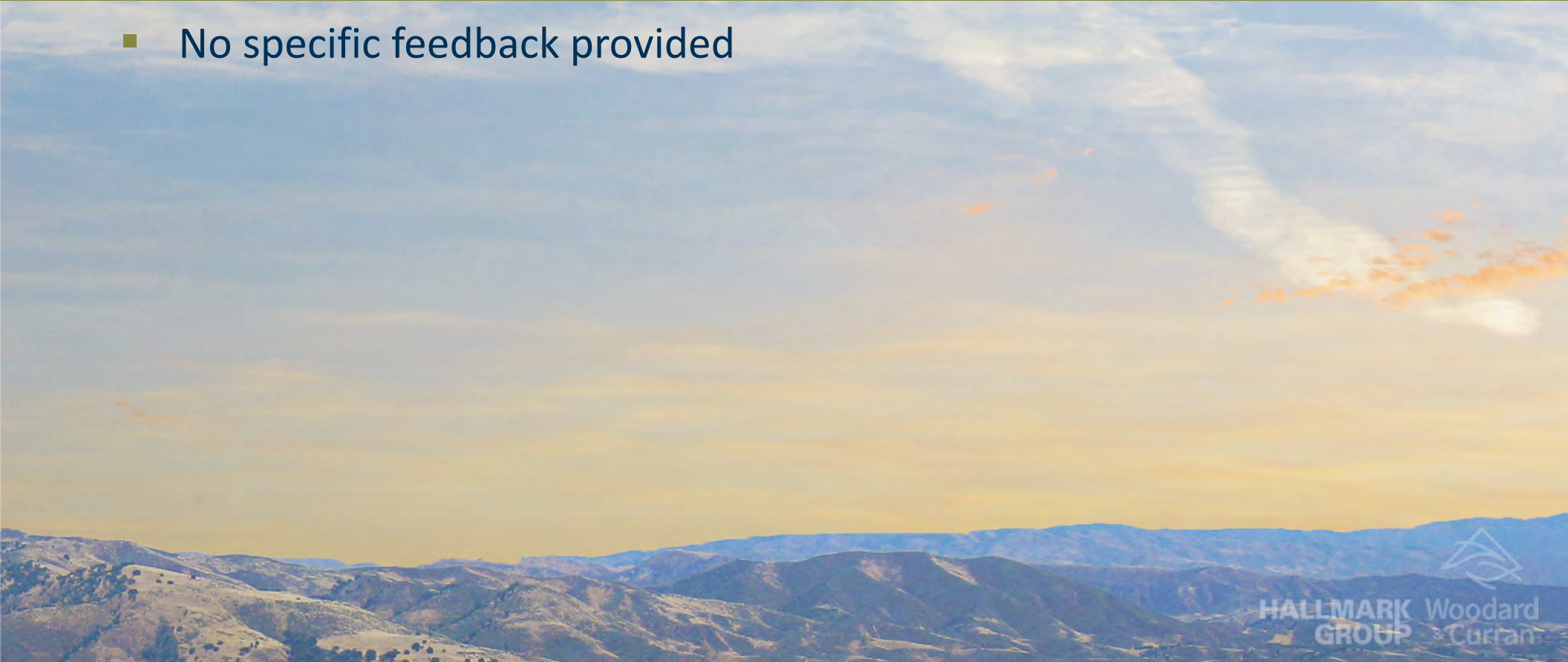
# Tech Forum Feedback (10-3-2023)

- General support for waiting for DWR guidance to make changes
- It is important to understand correlations between surface flows and newly installed piezometers



# Public Workshop Feedback (10-12-2023)

- No specific feedback provided



Cuyama Basin Groundwater Sustainability Agency

# 6i. Groundwater Quality Sustainable Management Criteria and Undesirable Results Definitions

October 26, 2023



# GSP Approach and DWR Recommended Corrective Action

- **GSP Section 3.3.4 Identification of Undesirable Results (p. 3-7):** “This result is considered to occur during GSP implementation when 30 percent of representative monitoring wells (i.e., 20 of 64 wells) fall below their minimum groundwater elevation thresholds for two consecutive years.”
- **GSP Section 5.5.3 Minimum Thresholds, Measurable Objectives, and Interim Milestones (p. 5-6):**
  - Sustainability criteria were established for TDS at representative wells:
    - MTs were set to be the 20 percent of the total range of each representative monitoring site above the 90th percentile of measurements for each site
    - MOs were set at the lower of 1,500 mg/L or the most recent measurement as of 2018
  - No sustainability criteria were established for arsenic or nitrates
- **DWR Recommended Corrective Actions:**
  - **Action 3:** “Provide an update regarding the project to construct a new replacement production well near the community of New Cuyama ... If this project is not effective or not implemented by the periodic evaluation, the GSA should develop sustainable management criteria for arsenic.”
  - **Action 4:** “Department staff recommend the GSA develop sustainable management criteria for nitrate.”

# Options for Groundwater Quality Sustainability Criteria – Minimum Thresholds

- For TDS:
  1. Keep existing MTs
  2. Update previous MTs using more recent monitoring measurement data
  3. Set MTs based on water quality needed for beneficial uses (e.g. domestic, agricultural, GDEs)
  4. Set MTs based on continuation of historical trends
- For Nitrates and Arsenic:
  1. Continue current path of tracking measurements but not setting MTs
  2. Develop MTs for either nitrates or arsenics or both at **all water quality monitoring wells**
  3. Develop MTs for either nitrates or arsenics or both at **only municipal wells**

# Options for Groundwater Quality Sustainability Criteria – Measurable Objectives

- For TDS:
  1. Keep same Measurable Objectives
  2. Retain existing Margin of Operational Flexibility – adjusted for new MT
  3. Apply a minimum buffer (sliding scale or consistent) to Moof
- For Nitrates and Arsenic:
  - Measurable objectives would be developed if the Board decides to develop minimum thresholds

# Options for Groundwater Quality Undesirable Results Definitions

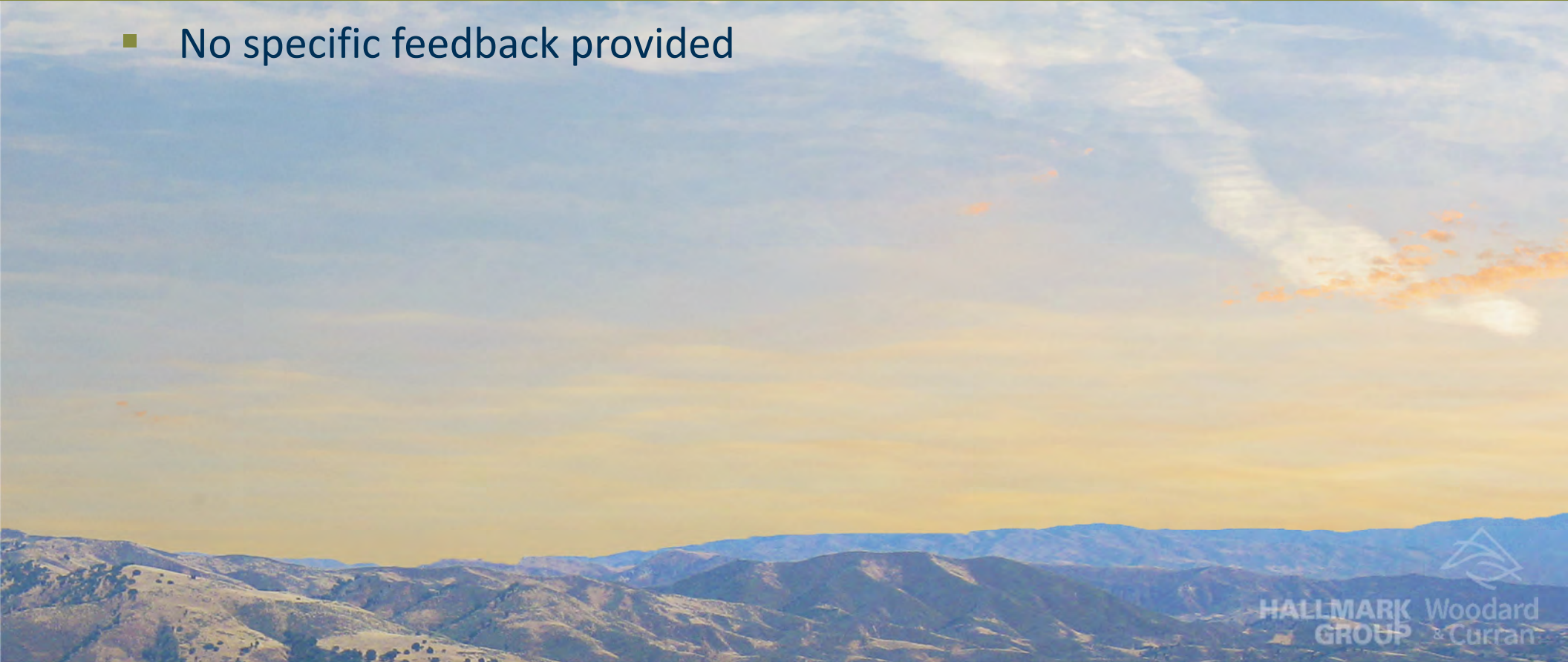
- For TDS:
  1. Keep the existing definitions
  2. Update to 30% of wells over 3 years instead of 2 years
  3. Develop separate thresholds based on projected impacts to different beneficial users (e.g. domestic versus ag wells)
  4. Develop separate undesirable results statements for different regions

# Tech Forum Feedback (10-3-2023)

- TDS:
  - General support for either keep existing MTs or potentially look at revising MTs based on more recent measurements
  - Need to look at MTs and MOs together to ensure that we are setting reasonable targets
- Nitrates and Arsenic:
  - General support for tracking levels but not setting SMCs
- Need to better describe GSA actions when water quality minimum thresholds are exceeded

# Public Workshop Feedback (10-12-2023)

- No specific feedback provided





# Cuyama Basin Groundwater Sustainability Agency

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## 6j. Glide Path Methodology

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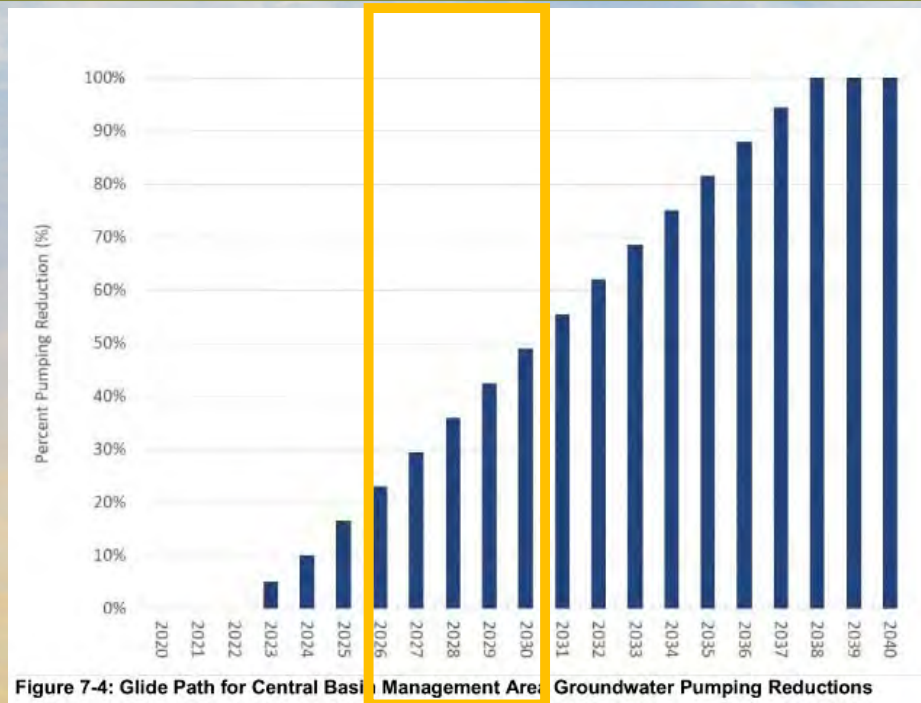
October 26, 2023



# GSP Approach

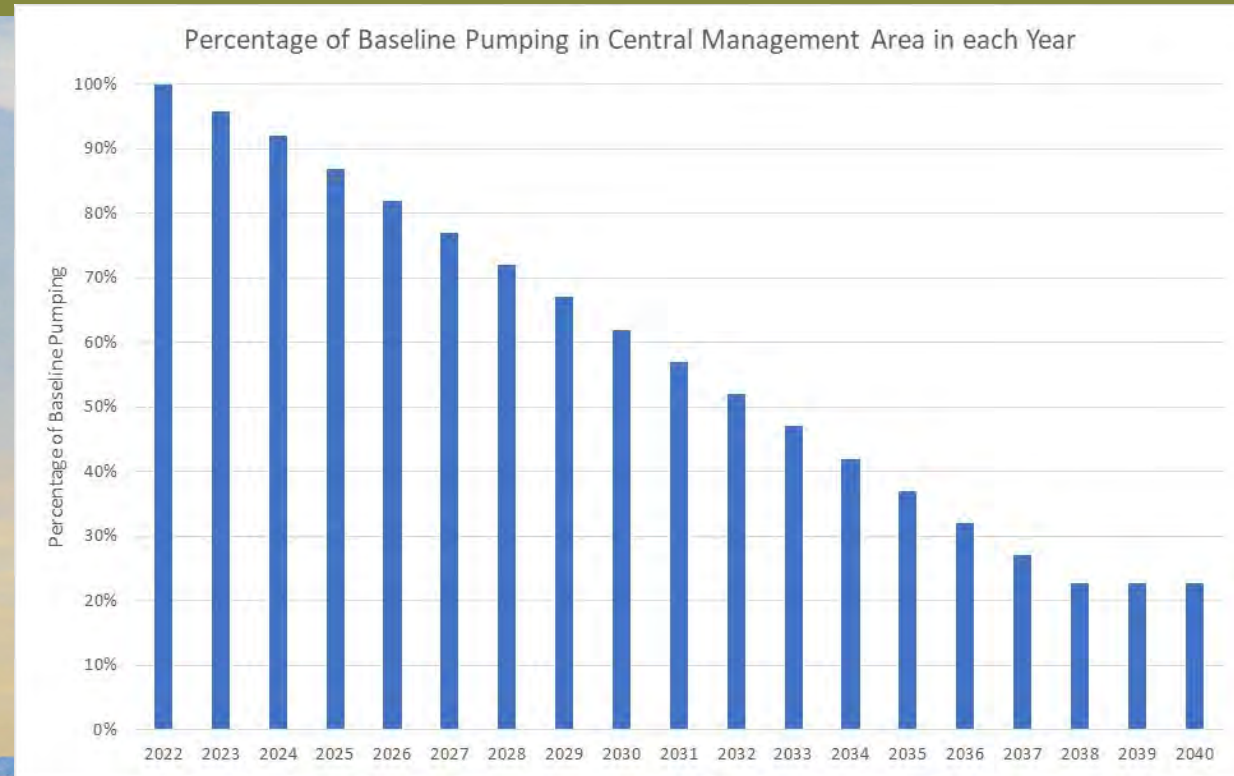
Board Policy in 2025 GSP Update will apply for 5 years until next update

- The glide path was developed as part of the Central Basin pumping allocations action in the GSP
- **GSP Section 7.5.2 (p. 7-23):** “The required decreases in pumping volumes to achieve balanced groundwater use in the Basin may result in substantial reductions in water availability over current use. The CBGSA plans to complete the pumping allocation plan in 2022, with pumping reductions beginning in 2023 at 5 percent of the total required reduction to achieve sustainability, and an additional 5 percent reduction in 2024. From 2025 to 2038, pumping would be reduced by 6.5 percent annually, so as to achieve sustainability in the Basin in 2038.”



# CBGSA GSP - Pumping Allocations Action

- Based on current modeling estimates, the **Glide Path** will result in Central Management Area pumping allocations equal to 23% of baseline pumping levels in 2040 (a reduction of 77%)
- This will be refined as the model is improved with additional data



# Potential Options

- Central Management Area options:
  1. Continue to use the same glide path for pumping allocations
  2. Adjust glide path to have greater reductions earlier in the period and lesser reductions later in the period (less overall reduction in groundwater storage and levels)
  3. Adjust glide path to have lesser reductions earlier in the period and greater reductions later in the period (less early impacts to agricultural users)

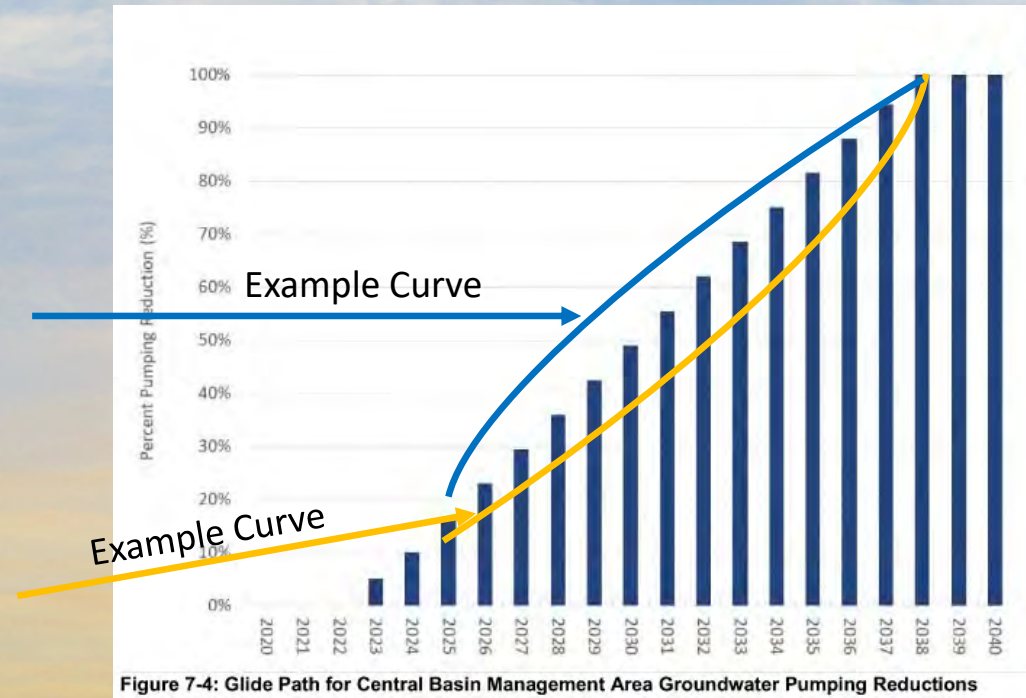


Figure 7-4: Glide Path for Central Basin Management Area Groundwater Pumping Reductions

# Potential Options

- Other Central Management Area options:
  1. Adjust the glide path to account for potential implementation of water supply projects
  2. Adjust the glide path schedule in conjunction with minimum thresholds so that that groundwater levels stay above minimum thresholds in 2040
- Options if pumping allocations are implemented outside the CMA:
  1. Use the same glide path outside the CMA as inside the CMA
  2. Develop a different glide path outside the CMA that reflects differing local conditions

# Tech Forum Feedback (10-3-2023)

- Perform modeling analysis to see how groundwater levels would change over time under different glide path scenarios
- Consider looking at economic impacts of different glide path scenarios
- Glide path should reflect local conditions if implemented outside the CMA

# Public Workshop Feedback (10-12-2023)

- Consider making more aggressive cuts early on to achieve sustainability more quickly
- Consider how the glide path affects overall aquifer storage



TO: Board of Directors  
Agenda Item No. 10k

FROM: Taylor Blakslee, Hallmark Group

DATE: November 1, 2023

SUBJECT: Approval of 2024 Meeting Schedule

**Recommended Motion**

Approve the 2024 Groundwater Sustainability Agency Board of Directors and Standing Advisory Committee meetings schedule provided in Agenda Item No. 6k.

**Discussion**

The proposed Cuyama Basin Groundwater Sustainability Agency (CBGSA) Board of Directors and Standing Advisory Committee (SAC) meeting calendar for 2024 is provided as Attachment 1 for consideration of approval.



## Cuyama Basin Groundwater Sustainability Agency 2024 Meeting Calendar

BOD

SAC

Holiday

January						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

February						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29		

March						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

April						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

May						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

June						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

July						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

August						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

September						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

October						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

November						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

December						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				



TO: Board of Directors  
Agenda Item No. 11a

FROM: Jim Beck, Executive Director

DATE: November 1, 2023

SUBJECT: Report of the Executive Director

**Recommended Motion**

None – information only.

**Discussion**

Progress and next steps for the Hallmark Group are provided as Attachment 1 for August and September 2023. An overview of consultant budget-to-actuals is provided as Attachment 2.

# August and September 2023 Accomplishments & Next Steps

## Accomplishments

- ✓ Prepared for and facilitated technical forum meeting on August 21, 2023
- ✓ Facilitated GSP Key Policy ad hoc on August 23, 2023
- ✓ Coordinate with staff on modeled pumping versus actual pumping.
- ✓ Coordinated with Catalyst Group and Woodard and Curran regarding public workshop
- ✓ Facilitated SAC meeting on August 31, 2023
- ✓ Review options for identifying tamarisk with Woodard and Curran
- ✓ Finalized and distributed post card for public workshop
- ✓ Prepared for and facilitated Board meeting on September 6, 2023
- ✓ Correspondence with stakeholder regarding potential for implementing recharge project
- ✓ Participated in AP media reporter interview on September 13, 2023.

## Next Steps

- Distribute crop data survey to landowners
- Plan for fall 2023 public workshop
- Coordinate Fiscal Year audit



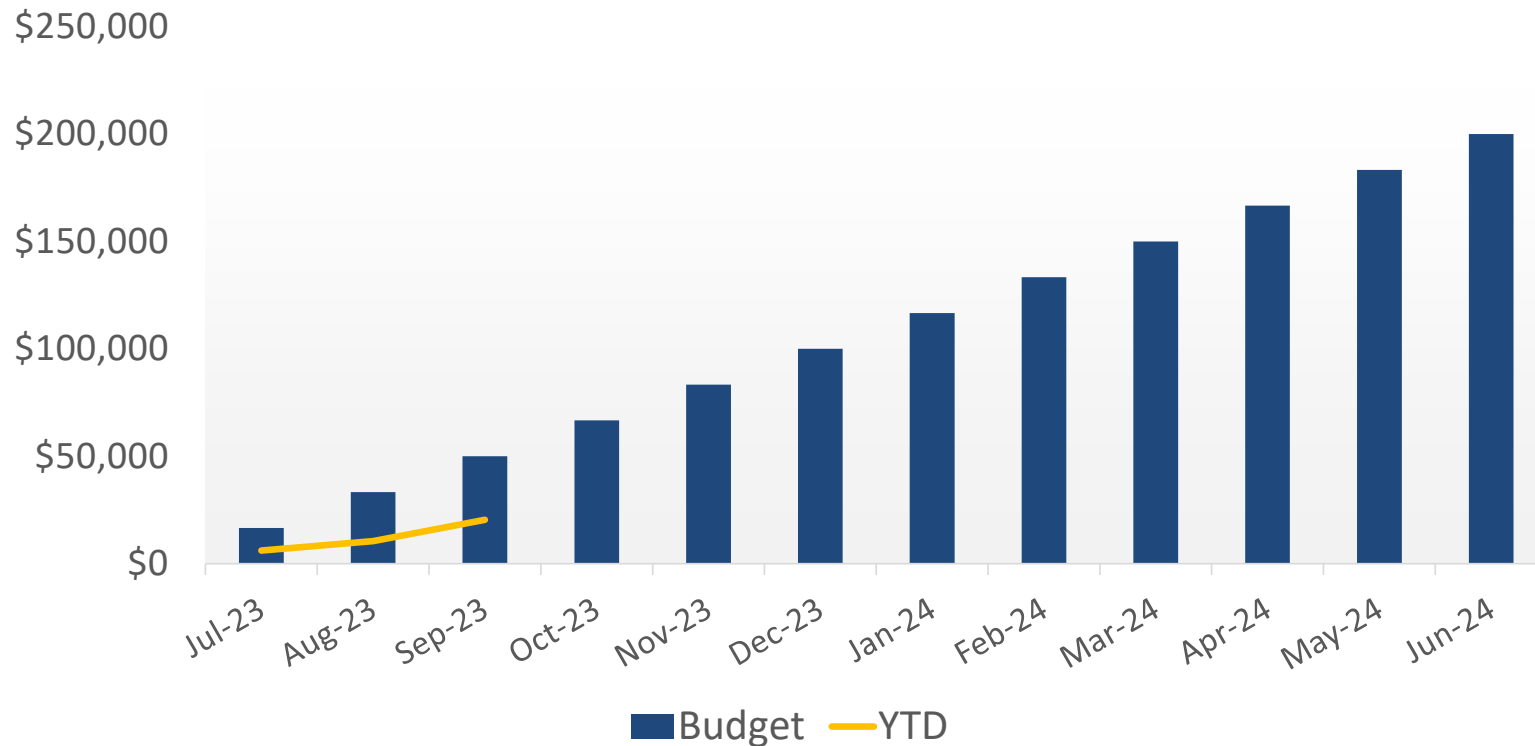
# Cuyama Basin Groundwater Sustainability Agency

## Financial Report

September 2023

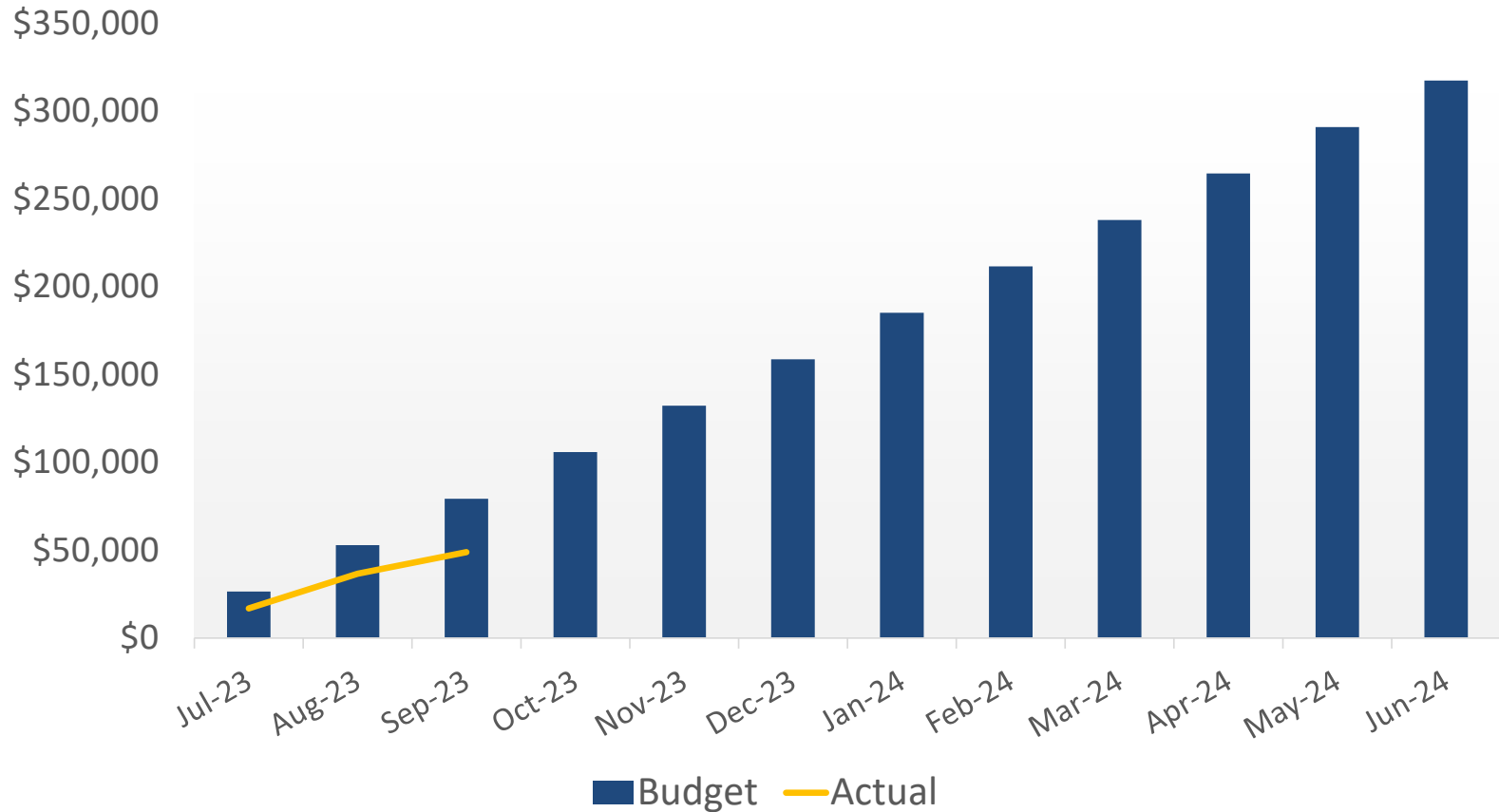
# Legal Counsel – Budget-to-Actuals

FY 23/24



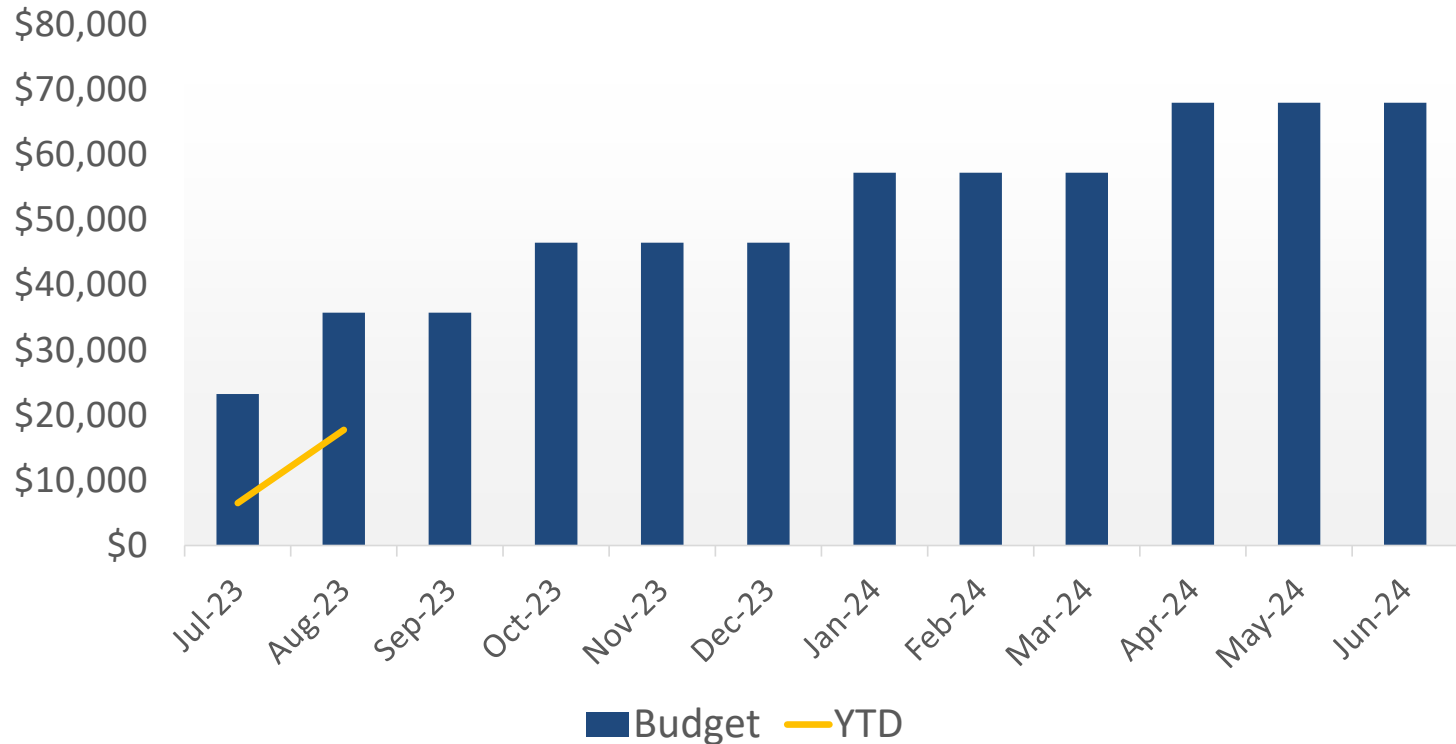
# Hallmark Group – Budget-to-Actuals

FY 23/24



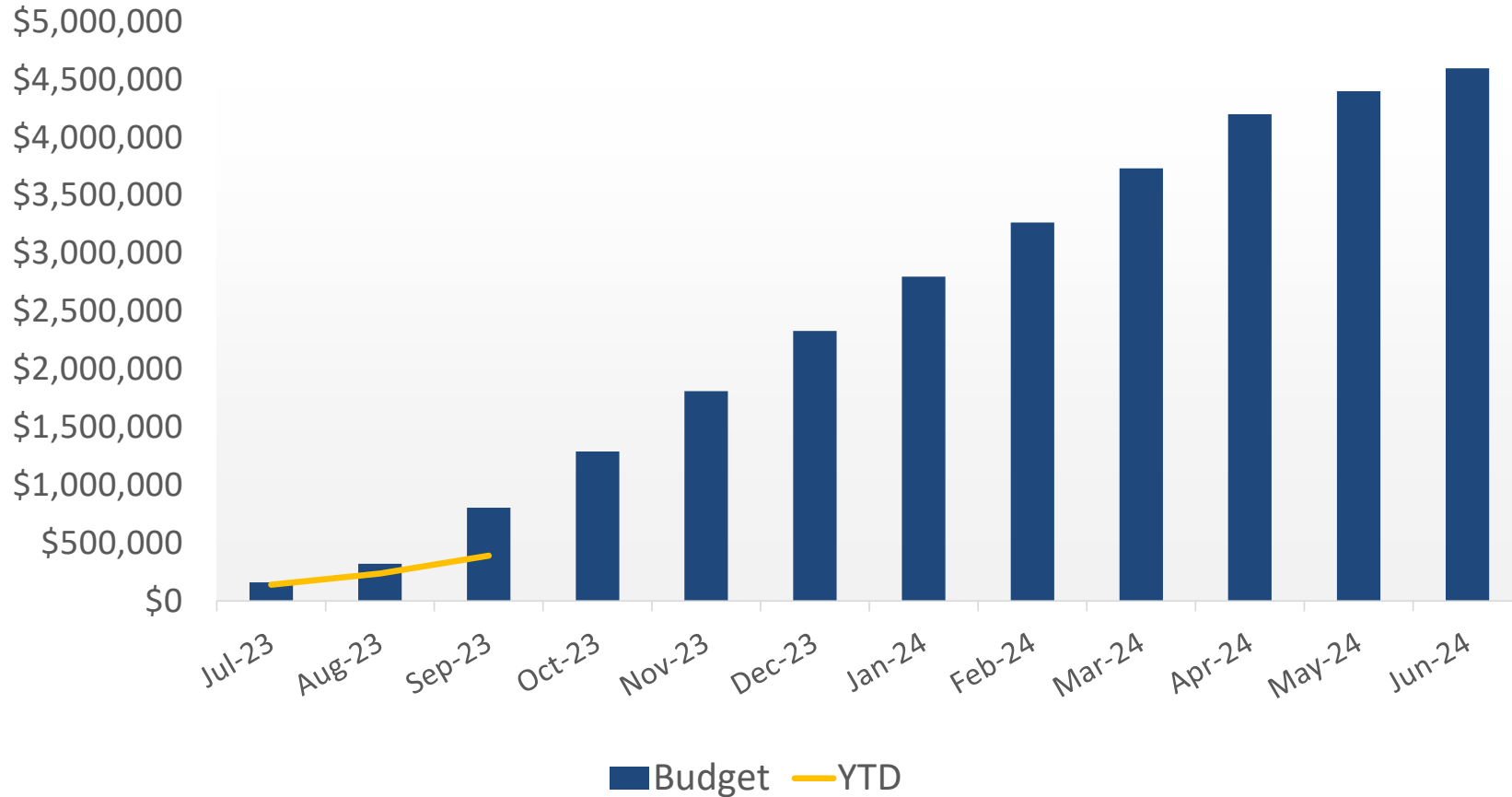
# Provost & Pritchard – Budget-to-Actuals

FY 23/24



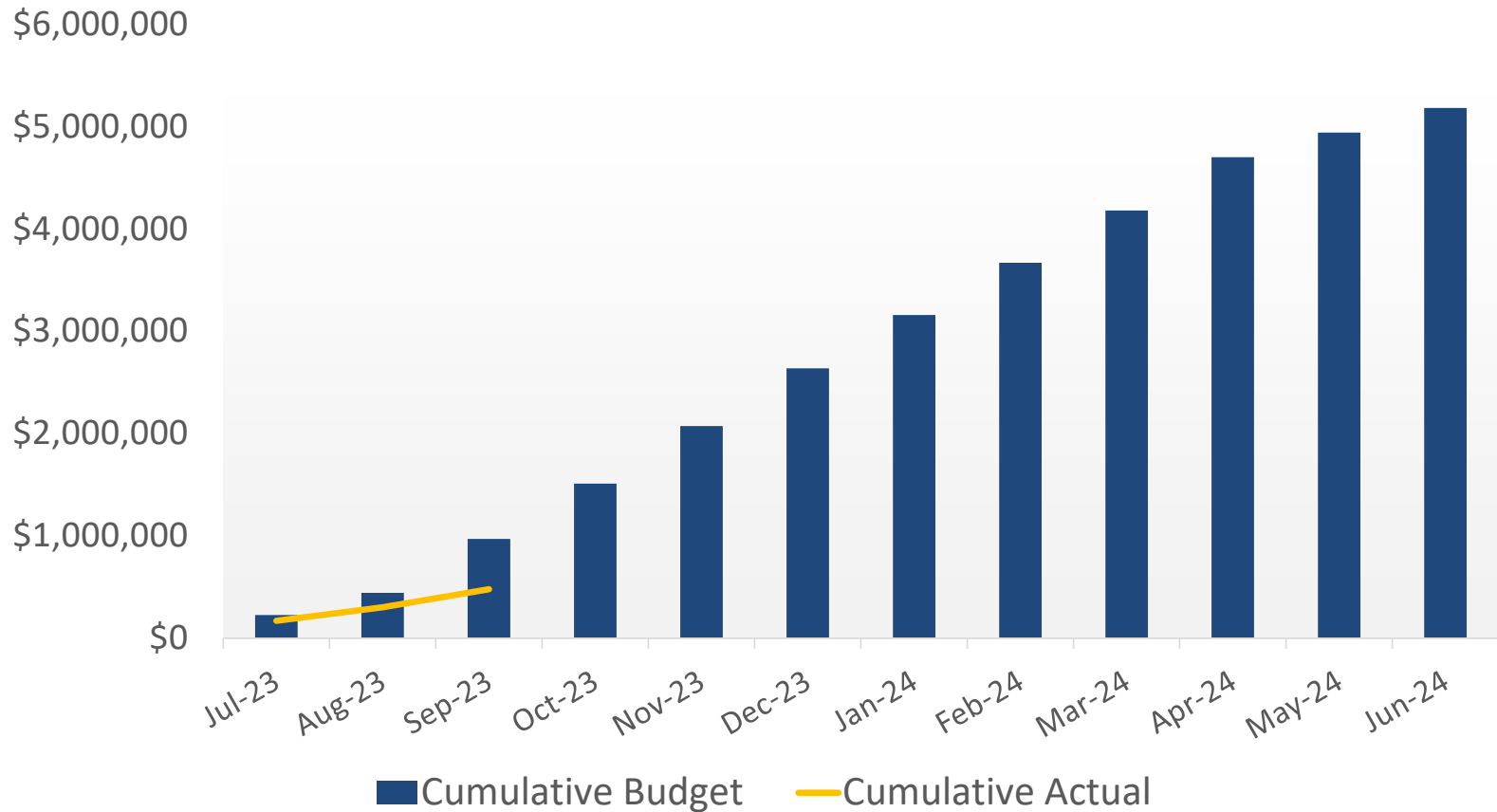
# Woodard & Curran – Budget-to-Actuals

FY 23/24

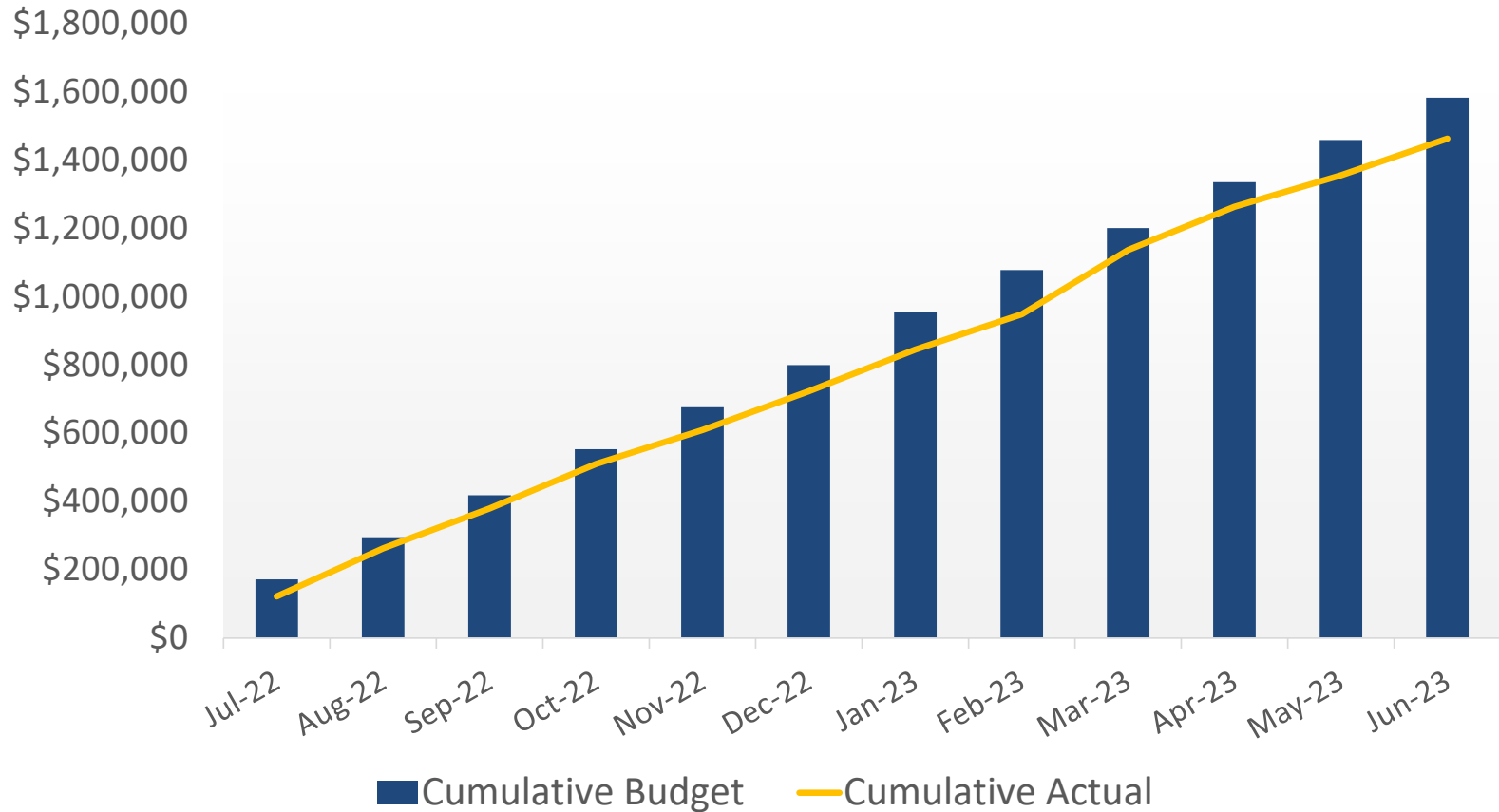




# CBGSA FY 23/24 – Budget-to-Actuals



# CBGSA FY 22/23 – Budget-to-Actuals





TO: Board of Directors  
Agenda Item No. 12a

FROM: Brian Van Lienden, Woodard & Curran

DATE: November 1, 2023

SUBJECT: Update on Groundwater Sustainability Plan Activities

**Recommended Motion**

None – information only.

**Discussion**

Cuyama Basin Groundwater Sustainability Agency (CBGSA) Groundwater Sustainability Plan (GSP) activities and consultant Woodard & Curran's (W&C) accomplishments are provided as Attachment 1.

Cuyama Basin Groundwater Sustainability Agency

# Update on Groundwater Sustainability Plan Activities

Brian Van Lienden

**November 1, 2023**



# September-October Accomplishments

Brian Van Lienden

- ✓ Completed installation of three new piezometers and began installation of first multi-completion monitoring well
- ✓ Reviewed monitoring program data and developed proposal for revision of groundwater quality and subsidence monitoring networks
- ✓ Developed approaches for groundwater quality and subsidence sustainability criteria and updates to glide path for Board consideration
- ✓ Performed flight for river channel survey and began data processing
- ✓ Prepared materials for and facilitated October 2023 stakeholder workshop
- ✓ Submitted encroachment permit for fault investigation study



TO: Board of Directors  
Agenda Item No. 12b

FROM: Brian Van Lienden, Woodard & Curran

DATE: November 1, 2023

SUBJECT: Update on Grant-Funded Projects

**Recommended Motion**

None – information only.

**Discussion**

An update on Cuyama Basin Groundwater Sustainability Agency (CBGSA) Grant-Funded Projects is provided as Attachment 1.

Cuyama Basin Groundwater Sustainability Agency

# Update on Grant Funded Projects

Brian Van Lienden

**November 1, 2023**

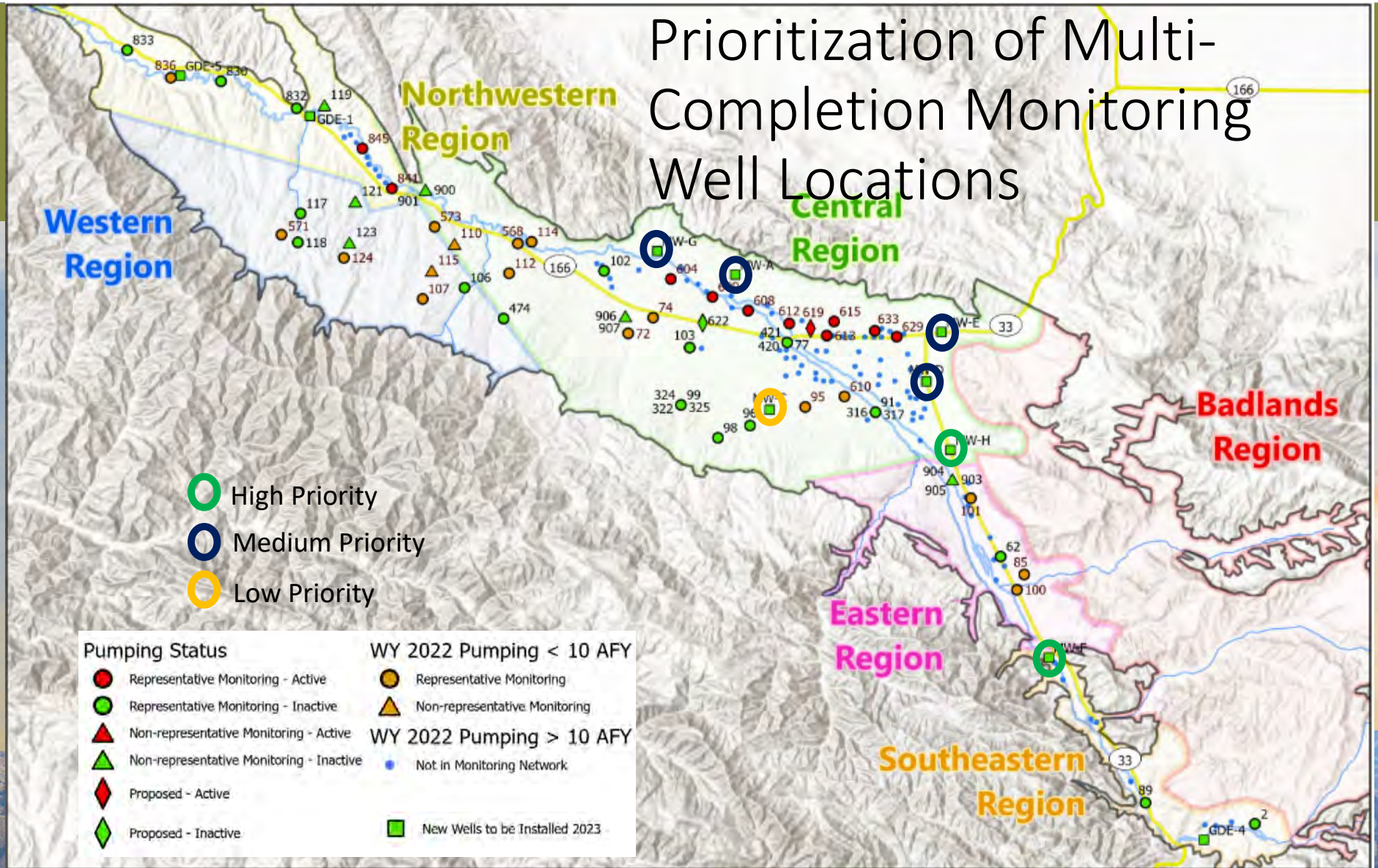


# Status of Monitoring Well and Piezometer Installation Planning

- Piezometer (GDE) Locations:
  - Wells have been completed at all 3 locations (GDE-1, GDE-4 and GDE-5)
- Multi-Completion Monitoring Well Locations:
  - Drilling began at MW-F on October 23
  - Permits/agreements are in place at 1 other location (MW-C)
  - Permits/agreements are in process at 5 locations
    - Encroachment permits for locations MW-D and MW-H expected from Caltrans by end of October
    - Working with landowner to finalize agreements at locations MW-A, MW-E and MW-G



# Prioritization of Multi-Completion Monitoring Well Locations



- High Priority
- Medium Priority
- Low Priority

Pumping Status		WY 2022 Pumping < 10 AFY	
<span style="color: red;">●</span>	Representative Monitoring - Active	<span style="color: orange;">●</span>	Representative Monitoring
<span style="color: green;">●</span>	Representative Monitoring - Inactive	<span style="color: orange;">▲</span>	Non-representative Monitoring
<span style="color: red;">▲</span>	Non-representative Monitoring - Active	<span style="color: blue;">●</span>	WY 2022 Pumping > 10 AFY
<span style="color: green;">▲</span>	Non-representative Monitoring - Inactive	<span style="color: blue;">●</span>	Not in Monitoring Network
<span style="color: red;">◆</span>	Proposed - Active	<span style="color: green;">■</span>	New Wells to be Installed 2023
<span style="color: green;">◆</span>	Proposed - Inactive		

# Plan and Prioritization for Multi-Completion Monitoring Wells

- The objective is to install at least 1 well at each of the 7 nest locations
  - Installation at 7 locations may be achievable within the budget by installing only 1 or 2 wells at most nest locations; this should be acceptable because of the depth to water at these locations

- Recommendation:

Location	Approximate Depth to Water (Spring 2022)	Recommended # of Completions
MW-A	400-600	2
MW-C	500-600	1
MW-D	600-650	2
MW-E	400-600	2
MW-F	30-80	3
MW-G	400-600	2
MW-H	400-450	3

# Other Updates

- **River Channel Survey**
  - Flight was performed in September; data will be available in November
- **Water Rights Analysis**
  - Beginning data collection, including water rights information and Lake Twitchell historical flows and storage
- **Land Use**
  - Land IQ will provide land use estimates for the 2023 water year in December



TO: Board of Directors  
Agenda Item No. 12c

FROM: Brian Van Lienden, Woodard & Curran

DATE: November 1, 2023

SUBJECT: Update on 2023 Groundwater Quality Conditions Report

**Recommended Motion**

None – information only.

**Discussion**

The annual Groundwater Quality Conditions Report – Cuyama Valley Groundwater Basin October 2023 report is summarized as Attachment 1 and the detailed report is provided as Attachment 2.

Cuyama Basin Groundwater Sustainability Agency

# Update on Groundwater Quality Conditions Report

Brian Van Lienden

**November 1, 2023**

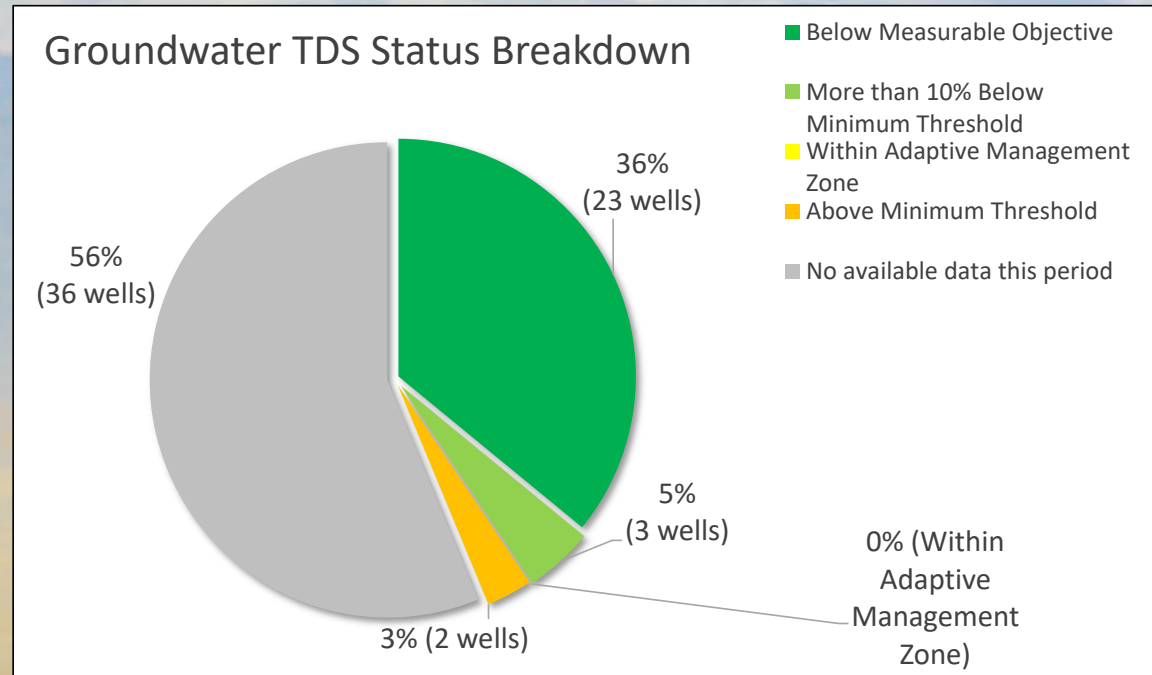


# Groundwater Quality Monitoring Network – Summary of Current Conditions

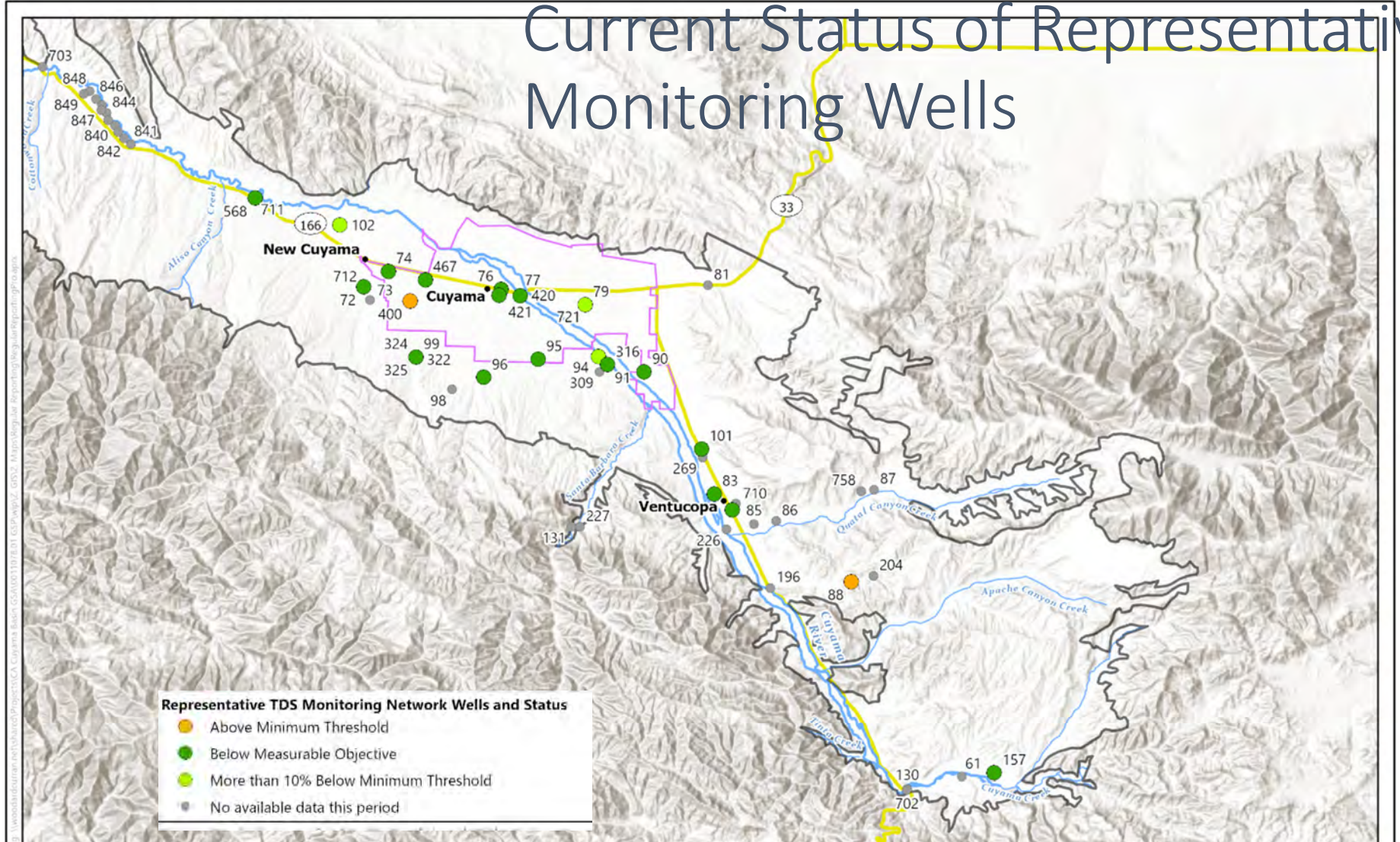
- Monitoring data collected by P&P in August 2023 for is included in the Groundwater Quality Conditions report
  - The report also includes transducer data collected at groundwater levels wells in July 2023
- 22 representative monitoring wells and 12 other wells have TDS measurements in 2023
  - Note: A correction has been made to re-assign measurements previously reported at representative well 204 to nearby (non-representative) well 205.
- 6 additional representative wells were measured for salinity in 2021 or 2022

# Summary of Groundwater Well TDS Measurements as Compared To Sustainability Criteria

- 2 the 28 wells with a measurement in 2021, 2022 or 2023 are currently above the minimum threshold (MT)
- 36 representative wells did not have a measurement in any year, in most cases because landowner agreement could not be obtained



# Current Status of Representative Monitoring Wells



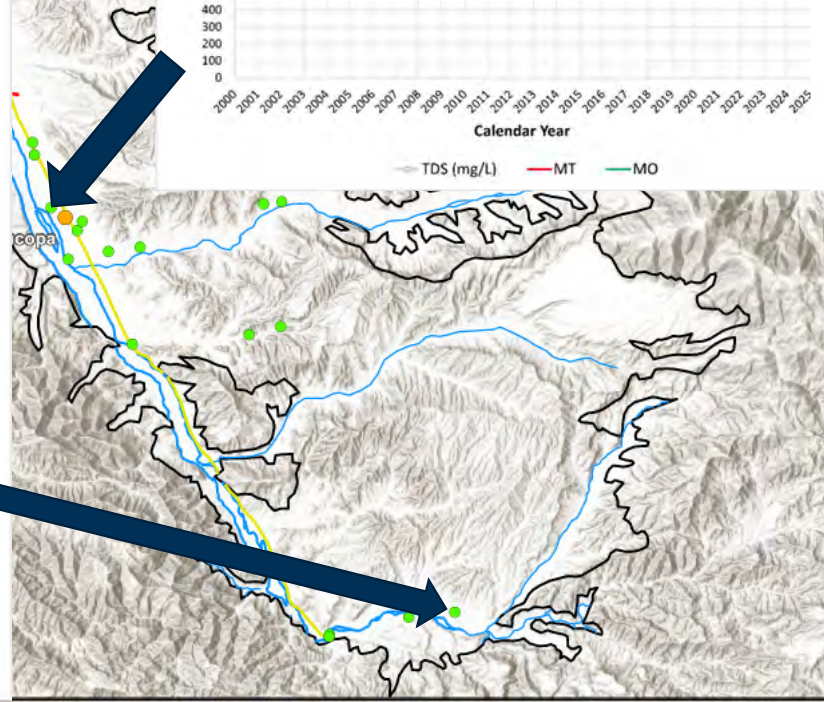
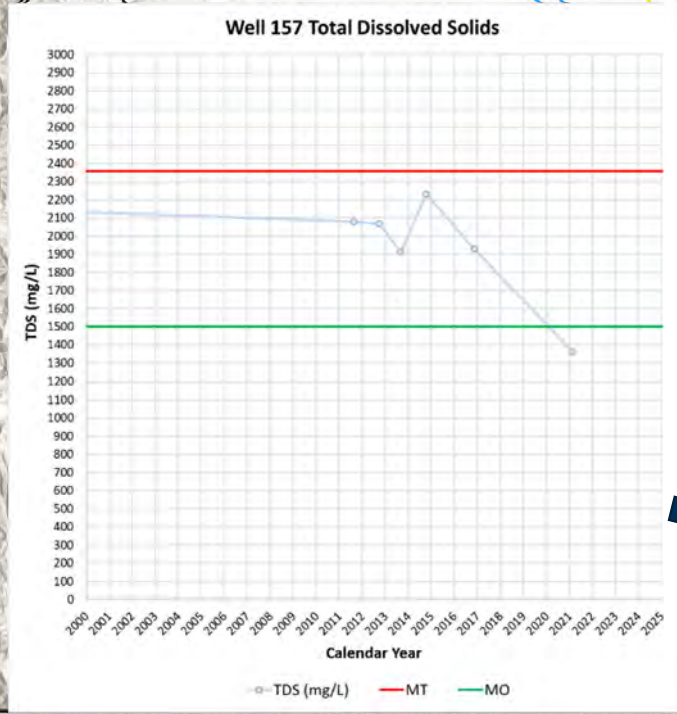
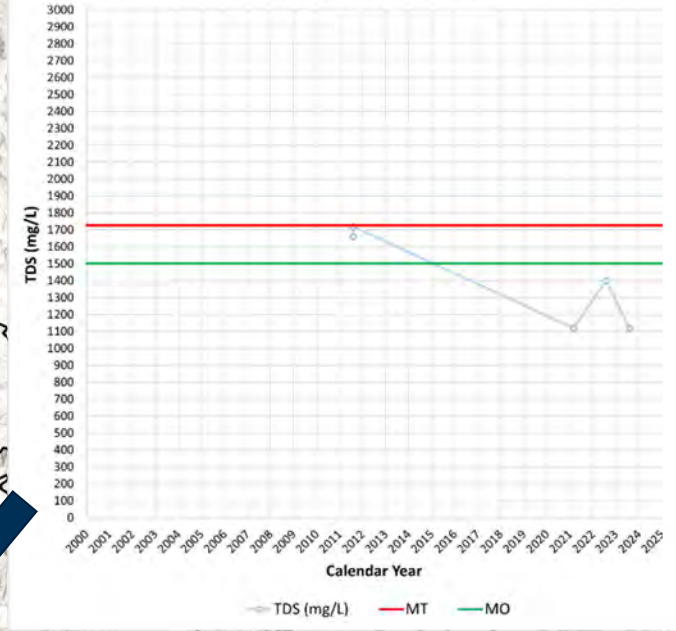
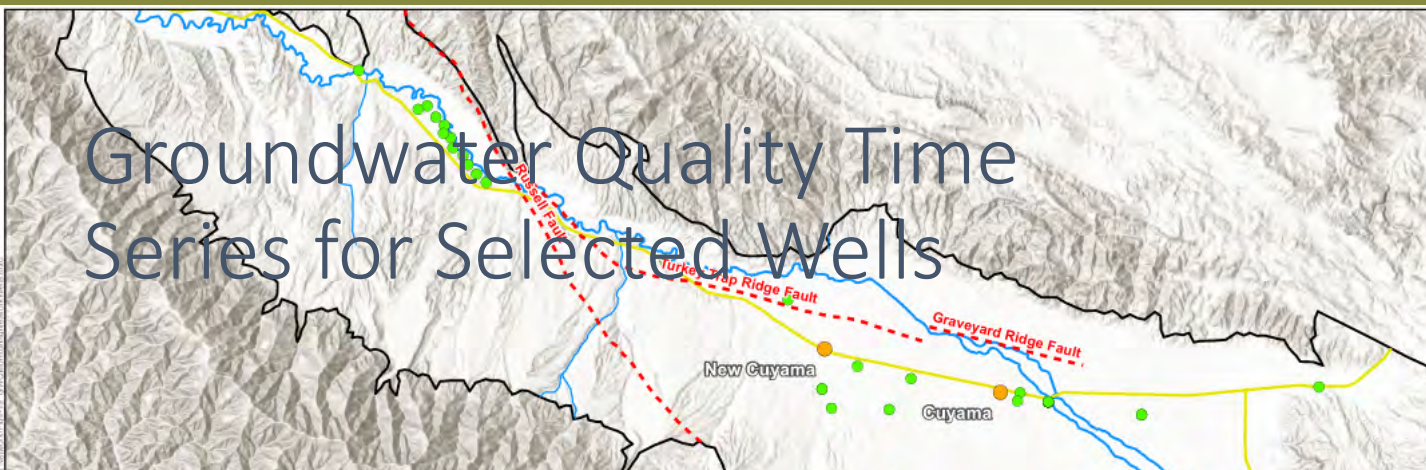
U.S. Geological Survey, California Water Science Center, Cuyama River Basin, California TDR 161, California, 2012. Maps developed using ArcGIS Desktop 10.2.2. Data provided by the Cuyama River Basin Water Users Association.





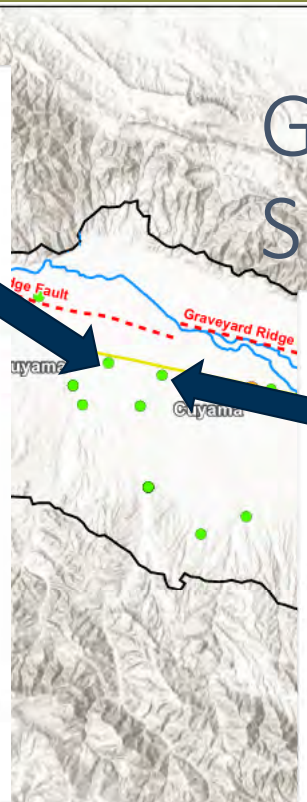
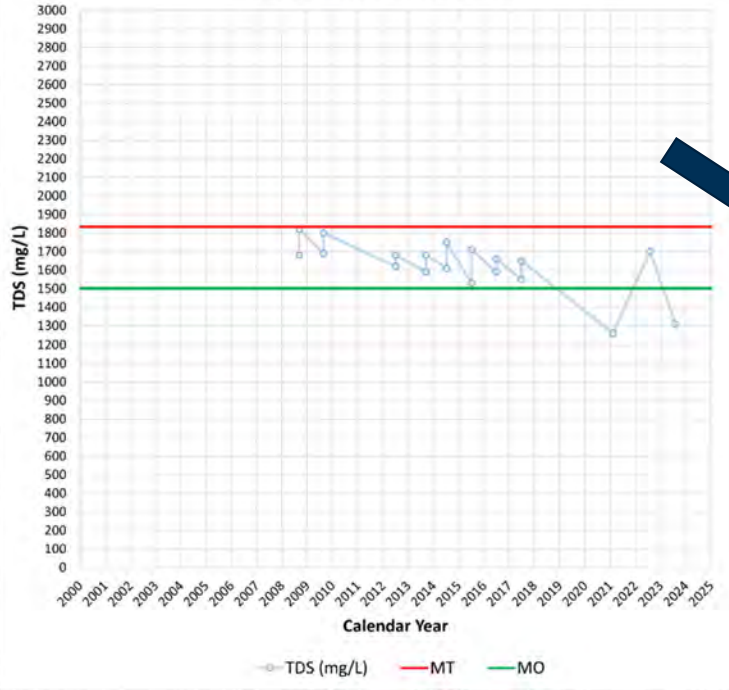


# Groundwater Quality Time Series for Selected Wells

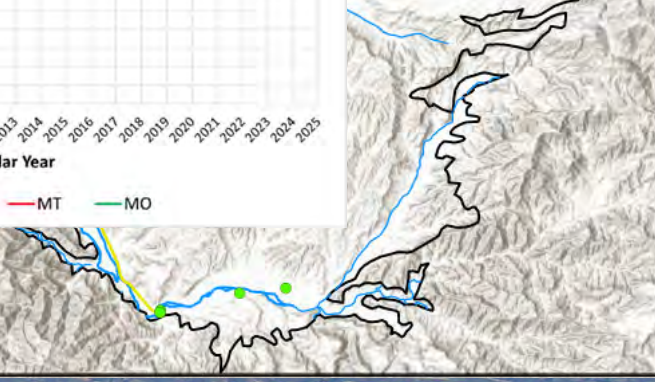
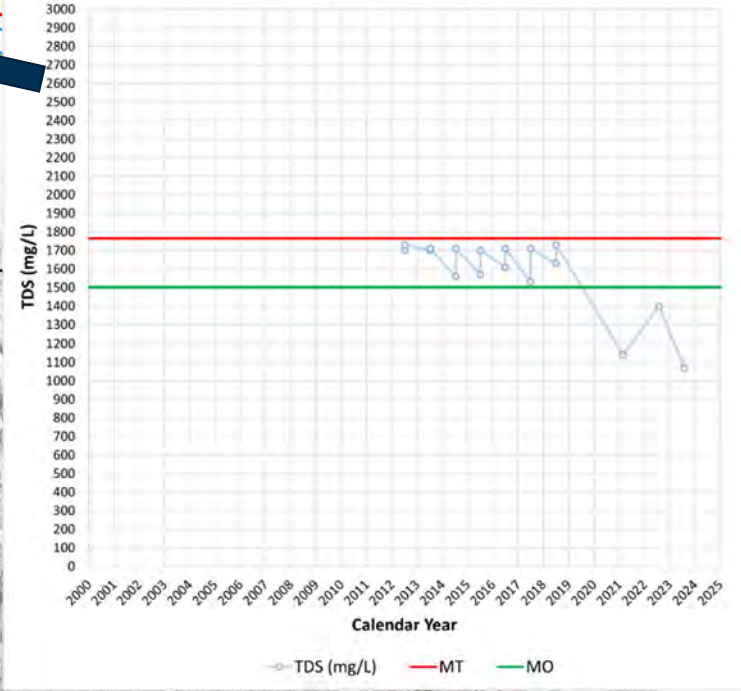


# Groundwater Quality Time Series for Selected Wells

Well 74 Total Dissolved Solids



Well 467 Total Dissolved Solids





**GROUNDWATER  
QUALITY  
CONDITIONS  
REPORT –  
CUYAMA VALLEY  
GROUNDWATER  
BASIN**

October 2023

801 T Street  
Sacramento, CA  
916.999.8700

[woodardcurran.com](http://woodardcurran.com)

**Cuyama Valley  
Groundwater  
Sustainability Agency**

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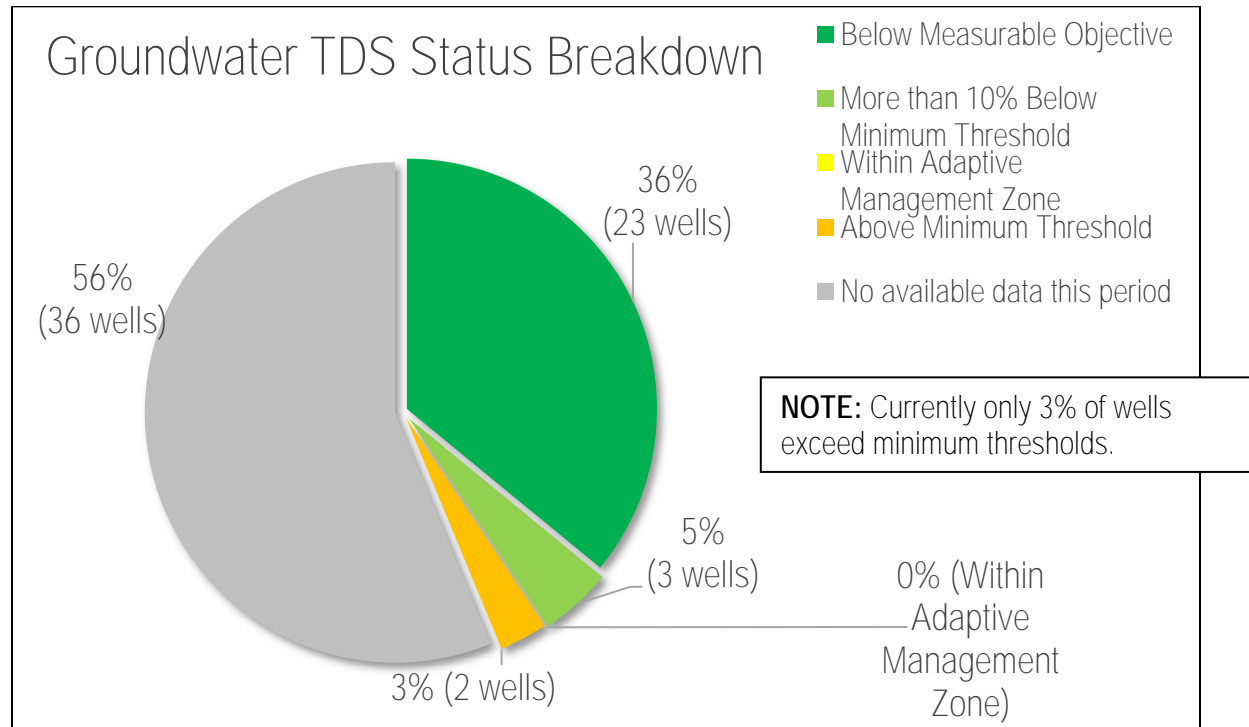
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## 1. INTRODUCTION

This report is intended to provide an update on the current groundwater quality as total dissolved solids (TDS) conditions in the Cuyama Valley Groundwater Basin. Groundwater quality measurements were taken during July and August of 2023. This work is completed by the Cuyama Basin Groundwater Sustainability Agency (CBGSA), in compliance with the Sustainable Groundwater Management Act.

## 2. SUMMARY STATISTICS



As outlined in the GSP, undesirable results for degraded water quality occurs, "when 30 percent of representative monitoring points... exceed the minimum threshold for a constituent for two consecutive years." (Cuyama GSP, pg. 3-4). Nine wells (900, 901, 902, 903, 904, 905, 906, 907, and 908) were installed after the GSP was submitted in January 2020 and therefore do not have minimum thresholds or measurable objectives. Additionally, wells 62, 103 and 571 had transducers installed after January 2020 and also do not have minimum thresholds or measurable objectives. Finally, it has been clarified that measurements previously recorded as being taken at well 204 have actually been taken at well 205; the results shown below have been updated accordingly.

## 3. CURRENT CONDITIONS

**Table 1** includes the most recent TDS measurements taken in the Cuyama Basin from representative wells included in the Cuyama GSP Groundwater Quality Monitoring Network, which were taken during July and August 2023. The eleven wells discussed above are also included in Table 1. Per the plan described in the GSP, it is the intention of the GSA to take TDS measurements once per year. **Table 2** includes all of the representative wells and their current status in relation to the thresholds applied to each well. This information is also shown in **Figure 1**.

All measurements have also been incorporated into the Cuyama DMS, which may be accessed at <https://opti.woodardcurran.com/cuyama/login.php>.

**Table 1: Recent Total Dissolved Solids Measurements for Monitoring Network**

Well	Region	Q1, 2021	Q3, 2022	Q3, 2023
		GWQ TDS, mg/L	GWQ TDS, mg/L	GWQ TDS, mg/L
61	Southeastern	-	-	-
72	Central	560	980	900
73	Central	-	-	-
74	Central	1260	1700	1310
76	Central	1270	-	-
77	Central	1070	1120	1120
79	Central	1790	-	-
81	Central	-	-	-
83	Eastern	1120	1400	1120
85	Eastern	-	-	-
86	Eastern	-	-	-
87	Badlands	-	-	-
88	Badlands	330	300	320
90	Central	-	1400	-
91	Central	1030	-	1020
94	Central	960	-	1190
95	Central	1290	1700	1340
96	Central	1210	1500	1100
98	Central	-	-	-
99	Central	1010	1300	1140
101	Eastern	-	1400	1210
102	Central	900	2100	1610
130	Southeastern	-	-	-
131	Eastern	-	-	-
157	Southeastern	1360	-	-
196	Eastern	-	-	-
204	Badlands	-	-	-
226	Eastern	-	-	-
227	Eastern	-	-	-
242	Eastern	830	1100	780
269	Eastern	-	-	-
309	Central	-	-	-
316	Central	1050	1050	1060
317	Central	690	990	-
318	Central	-	-	-

Well	Region	Q1, 2021	Q3, 2022	Q3, 2023
		GWQ TDS, mg/L	GWQ TDS, mg/L	GWQ TDS, mg/L
322	Central	1120	1500	1140
324	Central	490	850	740
325	Central	750	1400	1070
400	Central	1350	-	-
420	Central	1080	1080	1080
421	Central	800	1290	1280
422	Central	-	-	-
424	Central	-	1600	1260
467	Central	1140	1400	1070
568	Central	870	920	860
702	Southeastern	-	-	-
703	Northwestern	-	-	-
710	Eastern	-	-	-
711	Central	-	-	-
712	Central	-	-	-
713	Central	-	-	-
721	Central	-	-	-
758	Badlands	-	-	-
840	Northwestern	-	-	-
841	Northwestern	-	-	-
842	Northwestern	-	-	-
843	Northwestern	-	-	-
844	Northwestern	-	-	-
845	Northwestern	-	-	-
846	Northwestern	-	-	-
847	Northwestern	-	-	-
848	Northwestern	-	-	-
849	Northwestern	-	-	-
850	Northwestern	-	-	-
Additional Non-Representative Wells				
62	Eastern	890	980	780
103	Central	520	820	860
205	Badlands	360	340	380
571	Western	310	300	290
900	Central	-	6200	-
901	Central	-	6700	-
902	Central	-	9200	-



Well	Region	Q1, 2021	Q3, 2022	Q3, 2023
		GWQ TDS, mg/L	GWQ TDS, mg/L	GWQ TDS, mg/L
903	Eastern	-	1500	1080
904	Eastern	-	1500	1120
905	Eastern	-	1400	1100
906	Central	-	-	-
907	Central	-	1600	1260
908	Central	-	2400	1770

**Table 2: Well Status Related to TDS Thresholds**

Well	Region	Current Measurement Period		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Status	GSA Action Required?
		TDS mg/L	Date					
61	Southeastern	-	-	615	612	585	No available data this period	No
72	Central	900	8/23/2023	1023	1020	996	Below Measurable Objective	No
73	Central	-	-	856	851	805	No available data this period	No
74	Central	1310	8/23/2023	1833	1800	1500	Below Measurable Objective	No
76	Central	-	-	2307	2226	1500	No available data this period (below MO in 2021)	No
77	Central	1120	7/24/2023	1592	1583	1500	Below Measurable Objective	No
79	Central	-	-	2320	2238	1500	No available data this period (More than 10% below MT in 2021)	No
81	Central	-	-	2788	2659	1500	No available data this period	No
83	Eastern	1120	8/23/2023	1726	1703	1500	Below Measurable Objective	No
85	Eastern	-	-	1391	1314	618	No available data this period	No
86	Eastern	-	-	975	974	969	No available data this period	No
87	Badlands	-	-	1165	1157	1090	No available data this period	No
88	Badlands	320	8/23/2023	302	302	302	Above Minimum Threshold	No
90	Central	-	-	1593	1584	1500	No available data this period (below MO In 2022)	No
91	Central	1020	7/25/2023	1487	1479	1410	Below Measurable Objective	No
94	Central	1190	8/23/2023	1245	1226	1050	More than 10% Below Minimum Threshold	No
95	Central	1340	8/23/2023	1866	1829	1500	Below Measurable Objective	No



Well	Region	Current Measurement Period		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Status	GSA Action Required?
		TDS mg/L	Date					
96	Central	1100	8/23/2023	1632	1619	1500	Below Measurable Objective	No
98	Central	-	-	2400	2310	1500	No available data this period	No
99	Central	1140	8/24/2023	1562	1555	1490	Below Measurable Objective	No
101	Eastern	1210	8/23/2023	1693	1674	1500	Below Measurable Objective	No
102	Central	1610	8/23/2023	2351	2266	1500	More than 10% Below Minimum Threshold	No
130	Southeastern	-	-	1855	1820	1500	No available data this period	No
131	Eastern	-	-	1982	1934	1500	No available data this period	No
157	Southeastern	-	-	2360	2274	1500	No available data this period (below MO In 2021)	No
196	Eastern	-	-	904	898	851	No available data this period	No
204	Badlands	-	-	269	267	253	No available data this period	No
226	Eastern	-	-	1844	1810	1500	No available data this period	No
227	Eastern	-	-	2230	2157	1500	No available data this period	No
242	Eastern	780	8/23/2023	1518	1513	1470	Below Measurable Objective	No
269	Eastern	-	-	1702	1682	1500	No available data this period	No
309	Central	-	-	1509	1499	1410	No available data this period	No
316	Central	1060	7/25/2023	1468	1459	1380	Below Measurable Objective	No
317	Central	-	-	1337	1329	1260	No available data this period (below MO In 2022)	No
318	Central	-	-	1152	1145	1080	No available data this period	No
322	Central	1140	8/24/2023	1386	1382	1350	Below Measurable Objective	No
324	Central	740	8/24/2023	777	774	746	Below Measurable Objective	No



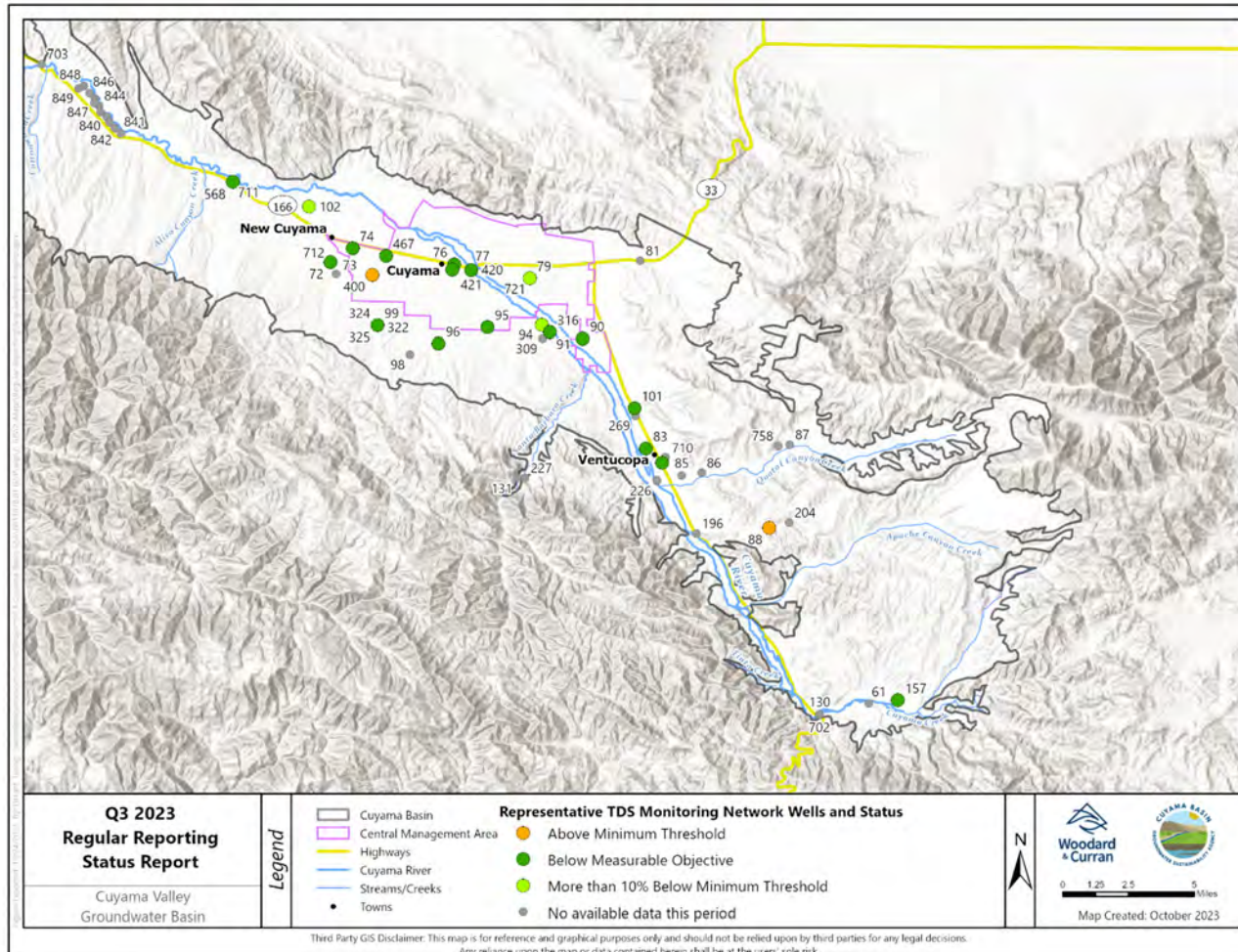
Well	Region	Current Measurement Period		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Status	GSA Action Required?
		TDS mg/L	Date					
325	Central	1070	8/24/2023	1569	1559	1470	Below Measurable Objective	No
400	Central	-	-	976	970	918	No available data this period (above MT in 2021)	No
420	Central	1080	7/24/2023	1490	1484	1430	Below Measurable Objective	No
421	Central	1280	7/24/2023	1616	1604	1500	Below Measurable Objective	No
422	Central	-	-	1942	1898	1500	No available data this period	No
424	Central	1260	8/23/2023	1588	1579	1500	Below Measurable Objective	No
467	Central	1070	8/23/2023	1764	1738	1500	Below Measurable Objective	No
568	Central	860	8/23/2023	1191	1159	871	Below Measurable Objective	No
702	Southeastern	-	-	2074	1878	110	No available data this period	No
703	Northwestern	-	-	4097	3727	400	No available data this period	No
710	Eastern	-	-	1040	1040	1040	No available data this period	No
711	Central	-	-	928	928	928	No available data this period	No
712	Central	-	-	978	977	977	No available data this period	No
713	Central	-	-	1200	1200	1200	No available data this period	No
721	Central	-	-	2170	2103	1500	No available data this period	No
758	Badlands	-	-	954	949	900	No available data this period	No
840	Northwestern	-	-	559	559	559	No available data this period	No
841	Northwestern	-	-	561	561	561	No available data this period	No
842	Northwestern	-	-	547	547	547	No available data this period	No
843	Northwestern	-	-	569	569	569	No available data this period	No
844	Northwestern	-	-	481	481	481	No available data this period	No



Well	Region	Current Measurement Period		Minimum Threshold	Within 10%	Measurable Objective	Status	GSA Action Required?
		TDS mg/L	Date		Minimum Threshold			
845	Northwestern	-	-	1250	1250	1250	No available data this period	No
846	Northwestern	-	-	918	918	918	No available data this period	No
847	Northwestern	-	-	480	480	480	No available data this period	No
848	Northwestern	-	-	674	674	674	No available data this period	No
849	Northwestern	-	-	1780	1752	1500	No available data this period	No
850	Northwestern	-	-	472	472	472	No available data this period	No



Figure 1: Groundwater Quality Representative Wells and Status



#### 4. TOTAL DISSOLVED SOLIDS TIME SERIES FIGURES

The following figures provide an overview of TDS conditions in each of the six area threshold regions identified in the GSP.

Figure 2: Southeast Region – Well 157

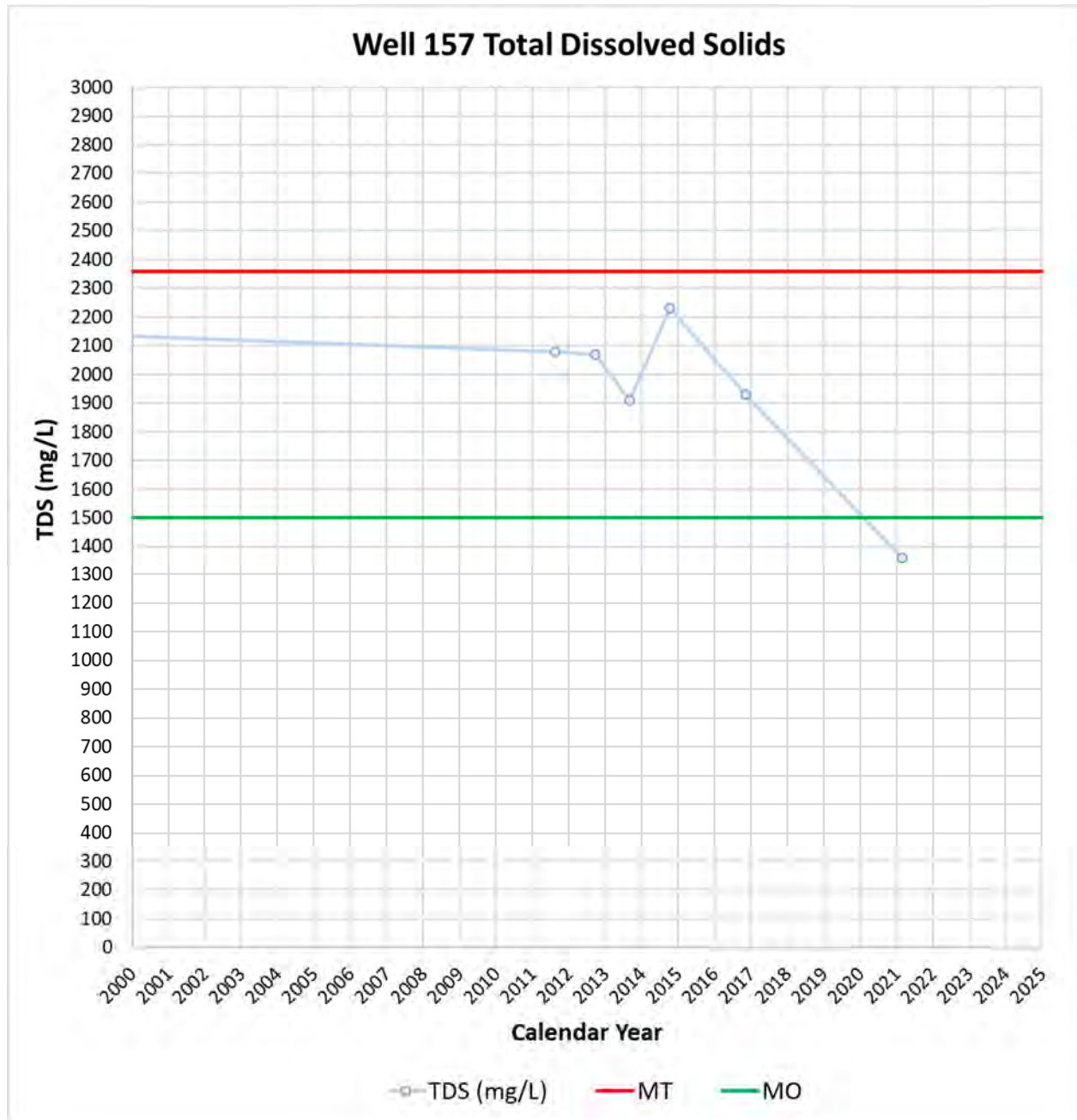


Figure 3: Eastern Region – Well 83

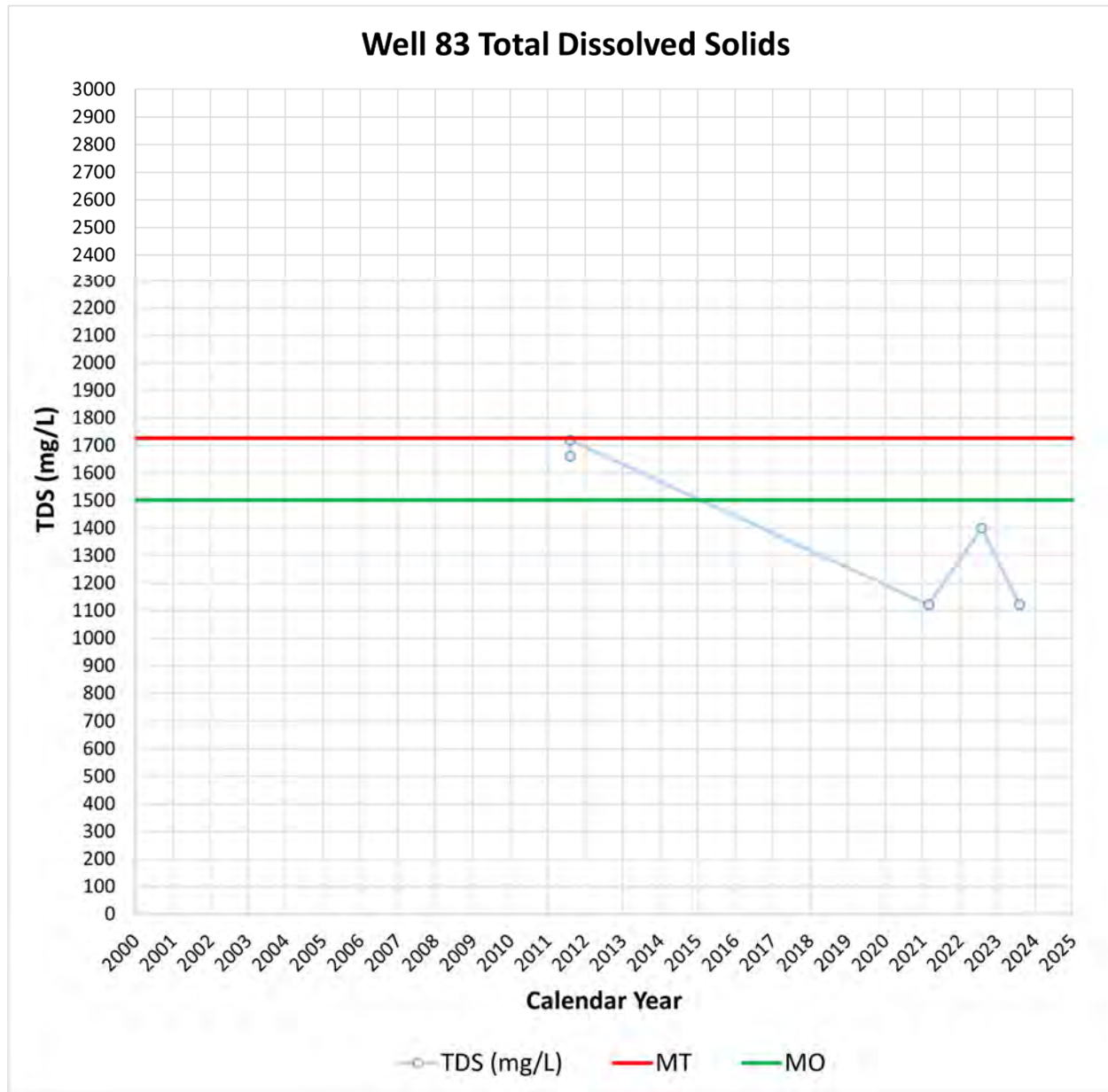




Figure 4: Central Region – Well 467

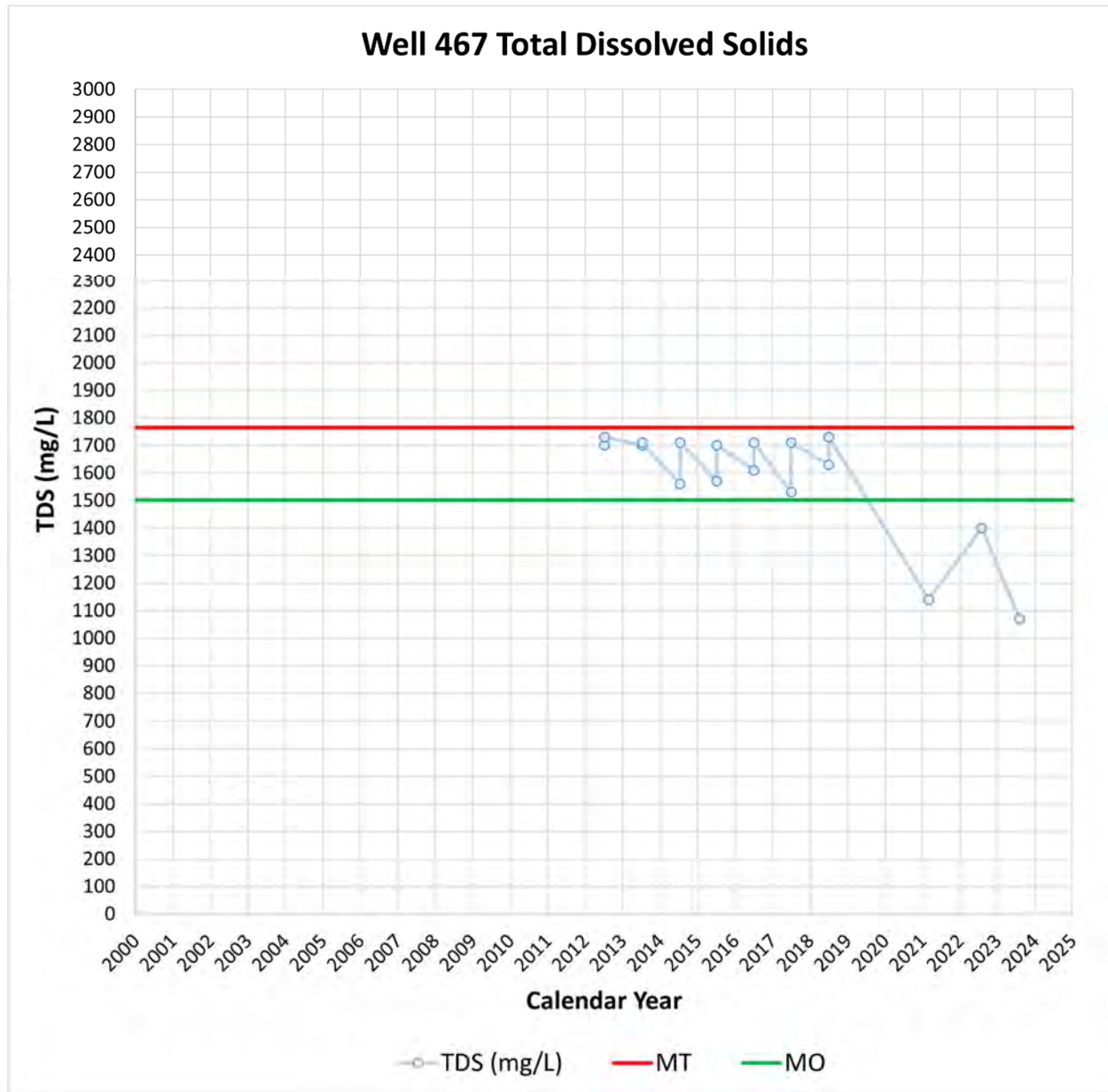


Figure 5: Central Region – Well 74

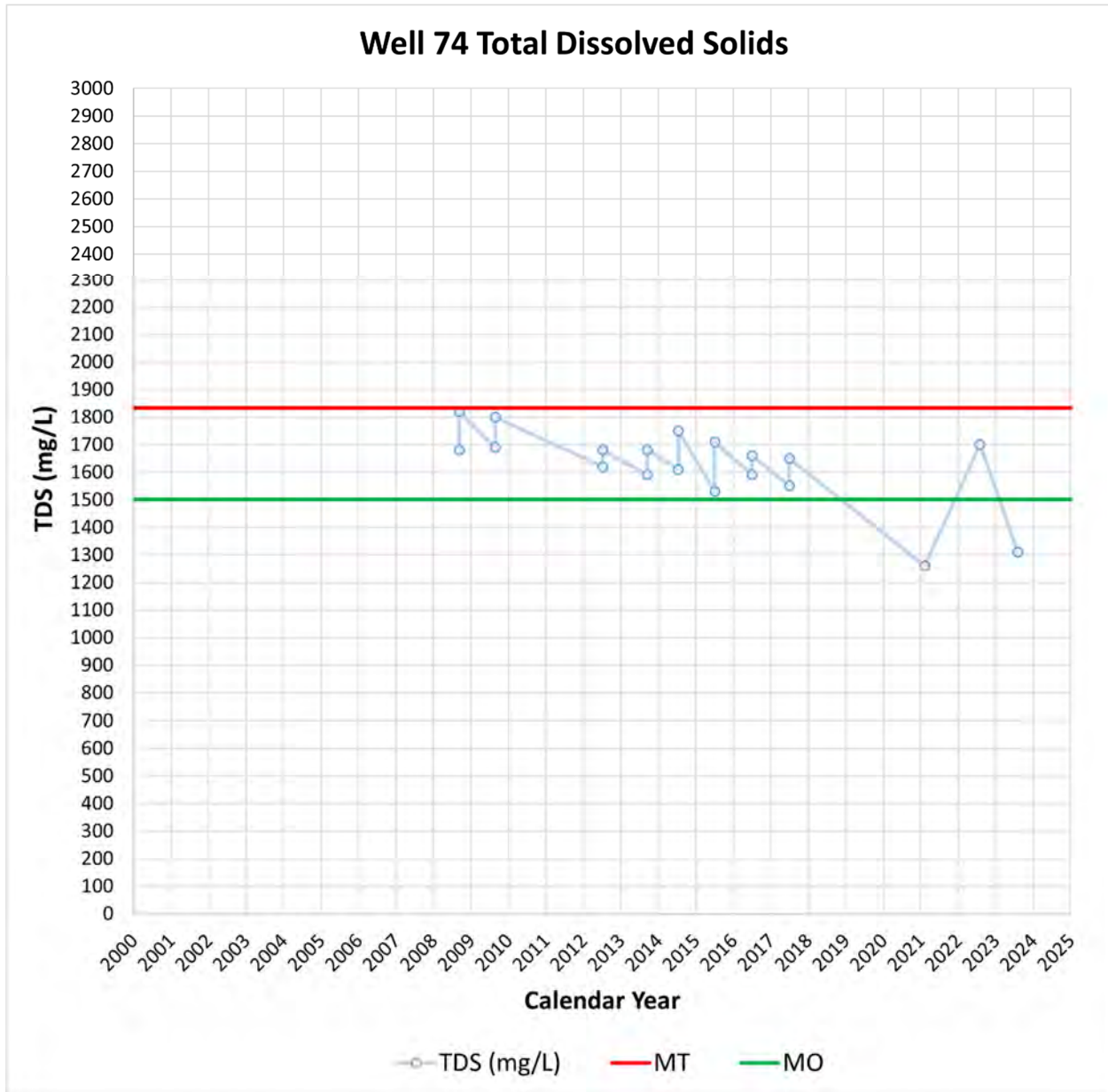
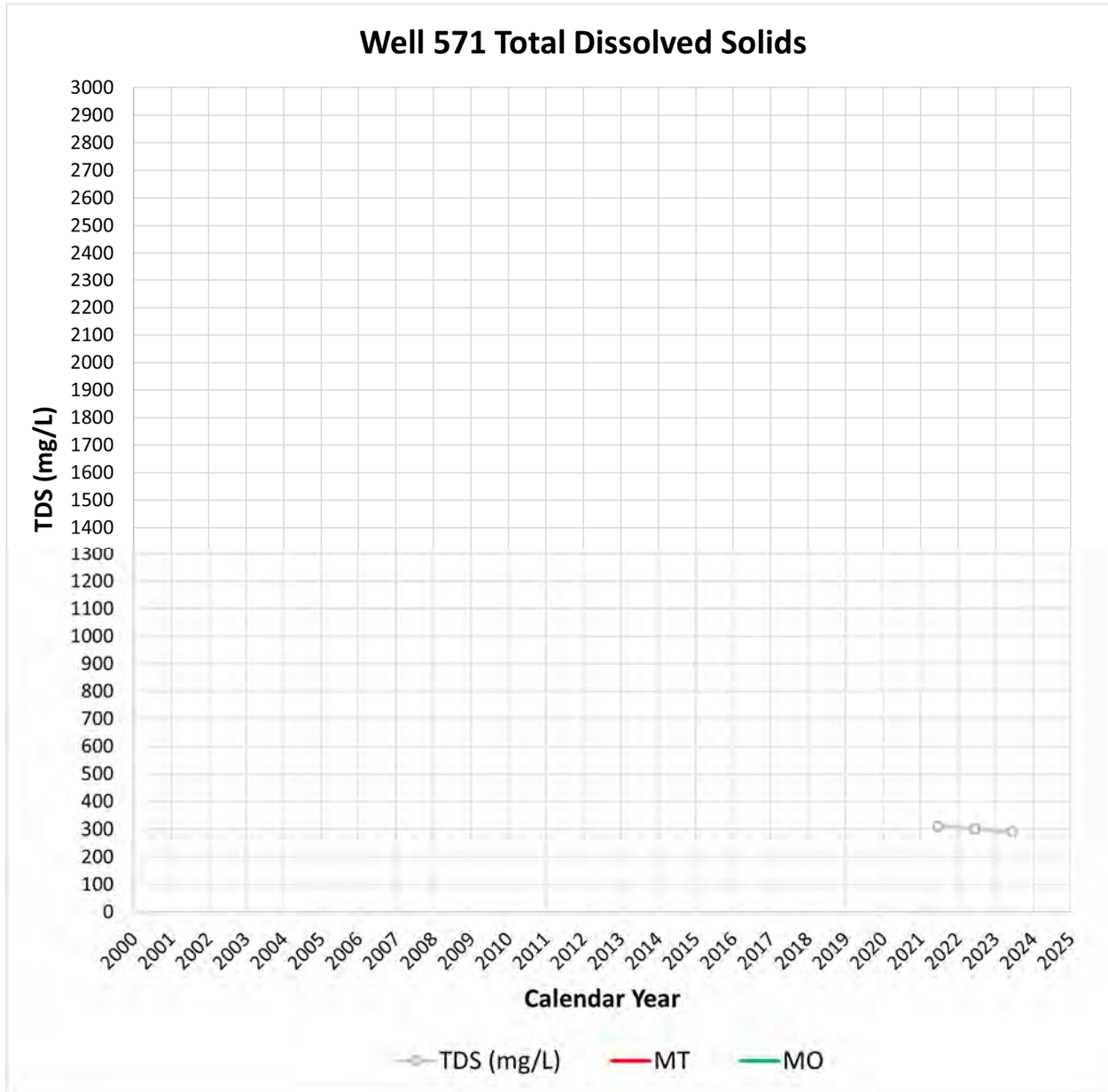


Figure 6: Western Region – Well 571



*Sustainability criteria were not established for this well.*

Figure 7: Northwestern Region – Well TBD

*No data from this Threshold Region at this time.*

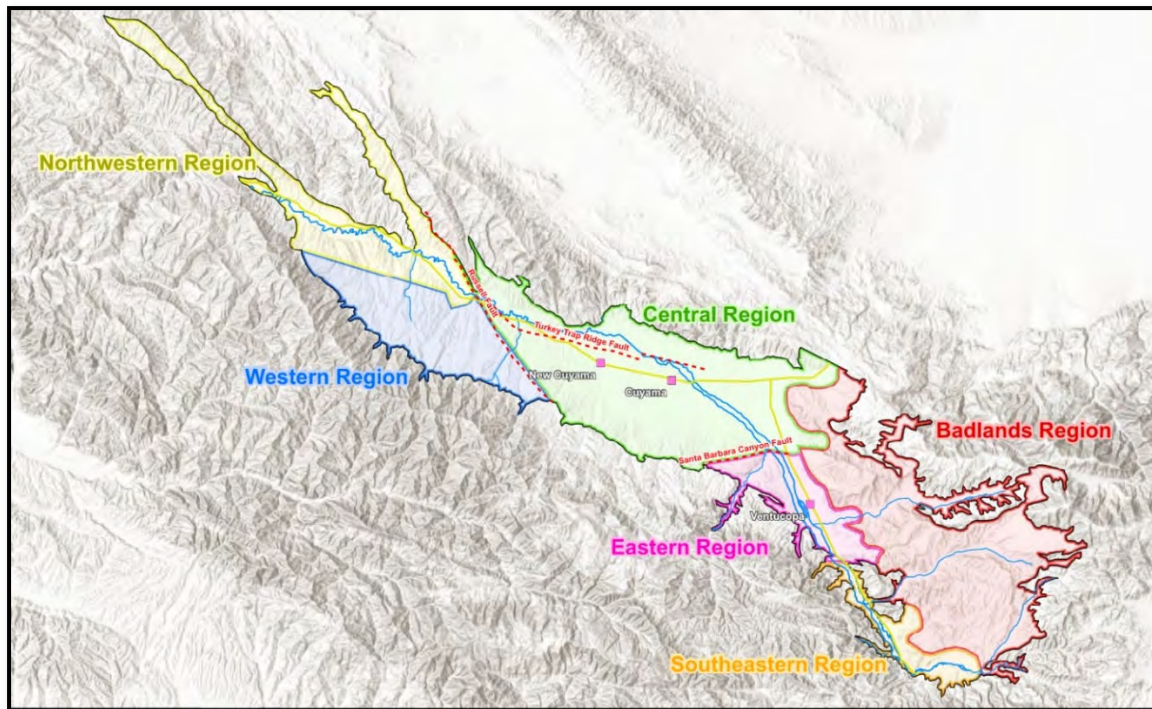


Figure 8: Threshold Regions in the Cuyama Groundwater Basin

## 5. MONITORING NETWORK UPDATES

As shown in the Summary Statistics Section, there are 45 wells without current measurements. These “no measurement codes” can have different causes as described below.

- Access agreements have not yet been established with the landowner, access has not been granted yet, or no access at the time of measurement:
  - Wells 61, 73, 79, 81, 85, 86, 87, 90, 98, 130, 131, 157, 196, 204, 226, 227, 269, 309, 702, 703, 710, 711, 712, 713, 721, 758, 840, 842, 843, 844, 846, 847, 848, 849, 850
- The well was out of service:
  - Wells 76, 400
- Weather-induced issues prevented access to the wellsite:
  - Wells 900, 901, 902
- Transducer data was not currently available:
  - Wells 317, 841, 845
- The well has gone dry:
  - Well 318, 422, 906



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October 26, 2023

Mr. Taylor Blakslee  
Assistant Executive Director  
Cuyama Basin Groundwater Sustainability Agency  
tblakslee@hgcpm.com

EMAIL RE: Groundwater allocation management system - CBGSA and SAC interest

Dear Mr. Blakslee,

I am re-submitting this letter and its attachment via email for inclusion in an upcoming CBGSA and SAC meeting.

Best,  
Spencer Harris

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Dear members of the CBGSA and SAC,

Basin Logix is soliciting interest from the Cuyama Basin Groundwater Sustainability Agency (CBGSA) board and Stakeholder Advisory Committee (SAC) to support the development of a groundwater allocation management system for the Central Management Area (CMA).

**Project summary**

The goal of this project is to provide the stakeholders of the CBGSA's CMA with a sustainable and extensible software-based solution with which to manage their groundwater allocations. As groundwater evolves into a new asset, new tools are needed in order to manage it. With discussions of basin-wide management actions taking place, it is an opportune time to begin efforts into developing efficient and scalable management solutions and practices. A solution that bolsters the ownership and agency of its groundwater stakeholders, accessible by stakeholders and the CBGSA, would both increase trust and reduce the amount of time spent on reviewing compliance and proving water provenance for trading.

An open-source software-based solution for managing, viewing, and querying data associated with groundwater allocations has been prototyped by Basin Logix. Basin Logix has garnered initial interest from a small CMA stakeholder to update, modify, and deliver this software-based solution. Work on the project is projected to begin in 2024.

The project focuses on creating a clearly defined foundation from which water assets may be managed. Only after creating a system which organizes and normalizes the validity of groundwater allocations as assets, can more advanced tools like groundwater trading be effectively implemented. The software-based solution utilizes a collection of tools including a shared digital-ledger, GPS well tagging, and a database to attach value and information to each AC-FT.

**Motivation**

Basin Logix is committed to supporting stakeholders navigate groundwater demand management. Combining the existing wealth of local knowledge that resides in Cuyama, the newly created groundwater allocations, and the basin's nearly exclusive reliance on groundwater resources offers an ideal basin from which to build the future of groundwater resource management.

**Next steps**

If there is interest in engaging Basin Logix, the attached *Project Plan for CBGSA* will be used to create a formal proposal. The proposal will not seek financial support. The software solution would be provided at no cost to the CBGSA. The proposal will request periodic feedback and input during the regularly scheduled 2024 CBGSA and SAC meetings. Any feedback received on the current project plan from CBGSA and SAC members will be incorporated into the final proposal.

Respectfully,  
Spencer Harris



Spencer Harris | [spencerbh@basinlogix.com](mailto:spencerbh@basinlogix.com) | CA PG 9698

Basin Logix LLC, Alameda, CA

## *Project Plan for the Cuyama Basin Groundwater Sustainability Agency*

*October 27, 2023*

This Project Plan outlines how the project *Management Process* will be used to accomplish the project *Goal*. It also provides initial assumptions about the *Scope*, the *Roadmap*, and *Design Decisions*. This Project Plan is expected to be updated as the project proceeds.

### *Goal*

The goal of this project is to provide the Cuyama Basin Groundwater Sustainability Agency (CBGSA) and the stakeholders of the CBGSA's Central Management Area (CMA) with a sustainable and extensible software based solution to manage their groundwater allocations (water assets).

### *Solution*

The solution as presented in this Project Plan will be a web application with an associated blockchain and database. The web application will act as an interface for managing, viewing, trading, and pulling data associated with water assets. If necessary the solution has the potential to expand into business processes and communication practices.

### *Management Process*

The management process that will govern the project is the circular feedback loop shown in Figure 1. The LEARN → BUILD → MEASURE feedback loop optimizes building functionality that delivers value to the CBGSA within the constraints of the project's *Goal*, timeline, and budget (not discussed in this Project Plan). Basin Logix will work on a schedule of three separate development cycles lasting eight, six, and four months respectively. Each development cycle will support the next. With each cycle the resultant solution will be more valuable and more effectively accomplish the project *Goal*.

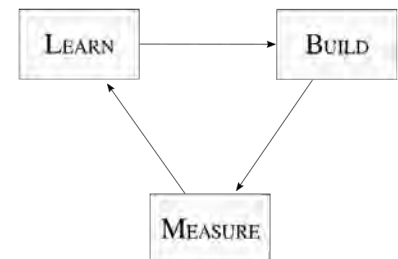


Figure 1





## Scope

The scope will be refined over the course of the three development cycles with direct input from the CBGSA, Standing Advisory Committee (SAC), and metrics collected. Initial *Scope* for the first eight months in chronological order:

1. Identification of obstacles and resource constraints of existing processes and of this project
2. Finalized solution design and technology stack
3. Blockchain, Database, and Frontend creation
4. Data access pipeline for Microsoft Excel
5. Adherence to AICPA<sup>1</sup> based Audit Data Standards and audits
6. Blockchain Test-network launch
7. Onboarding partners
8. Lessons learned and *Scope* for Cycle 2

<sup>1</sup> American Institute of Certified Public Accountants

The combination of the *Management Process* and the *Scope* yields our starting point, Table 1.

LEARN the Benefits	BUILD the Outcomes	MEASURE the Metrics
Bolster the emblematic characteristics of the water assets (i.e. create a system which organizes and normalizes the validity of water assets as property) to increase trust in trading and relationships	Update of the Basin Logix blockchain as a water accounting ledger tuned for the CMA; External facing information sheets	Number of trade partners engaged with the solution; Acre-feet of water allocations being managed
Create a clearly defined foundation from which water assets may be managed with more sophisticated tools	Update the Basin Logix database; Translation of the blockchain ledger into human readable data; ISO 20022 implementation (optional)	Satisfactory data audit; Number of data sources being ingested
Maintain ability to feed data to familiar workflows	CSV output; Easy and fast access to data	Number of clicks required to query desired data
Increase certainty and validity of assets	Automated audits at regular intervals	Confidence in relationships between assets and potential management actions

Table 1: Starting assumptions about the Benefits, Outcomes, and Metrics of this project



## *Roadmap*

The project *Roadmap* is a high level look at the work to be performed during each cycle. The *Roadmap* for Cycle 1 is included in Table 2. The cycle is broken down into time bound Phases. Each phase has specific work outcomes and high level tasks to be accomplished in the time allotted. These high level tasks have been split into two groups of teams: 1. Basin Logix + CBGSA + SAC + stakeholders and 2. Basin Logix. In the beginning, a significant amount of time is going to be spent learning CMA stakeholder's business processes surrounding water usage. Understanding the relative significance and utilization of data in current processes will be essential in constraining the *Scope*.

The *Scope* and *Roadmap* for Cycle 2 will be determined at the end of Cycle 1. Cycle 2 will similarly influence Cycle 3. Details about Cycle 1 beyond what has been proposed in Table 2 will be established during Phase 1.2. As work progresses and the feedback loop is applied the items in BUILD the Outcomes (from Table 1), Outcomes (from Table 2), and the *Scope* will converge. Basin Logix will detail and track work internally in JIRA, an online Kanban scheduling system for software development.

## *Design Decisions*

Design decisions will be made with input from multiple parties. All major design decisions will be rationalized using the *Management Process*. Initial major design decisions:

- The software developed for this solution will be based on open-source software.
- All of the source code for the software developed for this solution will be open-source and public.
- All data collected, stewarded or otherwise leveraged for the solution will not be open-source or public unless given explicit written approval from the data originator.

Phase	1.1 Planning	1.2 Research	1.3 Development Blockchain	1.3 Development Database	1.3 Development Frontend	1.4 Testing	1.5 Deployment	1.6 Review
Months		Month 1	Month 2	Month 3	Month 4	Month 5 and 6	Month 7	Month 8
<b>Basin Logix + CBGSA + SAC + stakeholders</b>	Initial discussion (1 hr mtg)	Water usage mapping Map of current data flow (1 hr mtg) Map of data used for decision making (1 hr mtg) Map of financial flow (1 hr mtg) Map of water flow (1 hr mtg) Discussions with two CMA partners (Two 1 hr mtgs)	Review of Blockchain design meeting (1 hr mtg)	Review of Database design meeting (1 hr mtg)	Dashboard design (2 hr mtg)	Product demo (1 hr mtg) Info sheets for internal distribution		Cycle 1 post-mortem (2 hr mtg) Business intelligence options (1 hr mtg) External product demo (1 hr meeting) Info sheets for external distribution
<b>Basin Logix</b>	Updated project plan and statement of work	Consensus mechanism selection and blockchain design with respect to actions and data (see the Basin Logix Whitepaper) Database design	Substrate blockchain Expanded data capabilities for financials Documentation of blockchain Off chain worker update for data ingestion Unit testing	Postgres database Database documentation and schema API setup (GraphQL or Postgres with Subsquid) Upload all off-chain metadata Internal data QA/QC	Web app Focus on ease and speed of exploration and flexibility Implementation of geographic view using leaflet webmap HTTPS security Access to asset history and current status	Bug fixes Back testing with historical data Initiation of assets on-chain Account creation External data audit External blockchain audit	Cloud deployment	Cycle 2 Scope
<b>Outcomes</b>	Executed contract	Identification of blockers and resource constraints Finalized technology stack and process design New Project Whitepaper	Blockchain creation	Database creation	Frontend creation Clear and easy data access for MS excel	Basin Logix satisfies audits	Blockchain Test-network launch	Onboarding partners/other CMA stakeholders Lessons learned Scope for Cycle 2

Table 2: Cycle 1 Roadmap.