CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY BOARD OF DIRECTORS

Board of Directors

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

AGENDA

August 1, 2018

Agenda for a meeting of the Cuyama Basin Groundwater Sustainability Agency Board of Directors to be held on Wednesday, July 11, 2018 at 4:00 PM, at the Cuyama Valley Family Resource Center, 4689 CA-166, New Cuyama, CA 93254. To hear the session live call (888) 222-0475, code: 6375195#.

Teleconference Locations:

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

County Government Center
1055 Monterey Street, Room D361
San Luis Obispo, CA 93408

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

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

1. Call to Order
2. Roll Call
3. Pledge of Allegiance
4. Approval of Minutes
    a. July 11, 2018
5. Report of the General Counsel
6. Report of the Standing Advisory Committee
7. Groundwater Sustainability Agency
    a. Report of the Executive Director

b. Progress & Next Steps

8. Groundwater Sustainability Plan
    a. Groundwater Sustainability Plan Update
    b. Technical Forum Update
    c. Overview of How a Groundwater Model Works
    d. Current Basin Water Conditions
    e. Draft Undesirable Results Narrative
    f. Stakeholder Engagement Update
        i. Second Newsletter
        ii. September 5th Workshop
9. Financial Report
    a. Financial Management Overview
    b. Financial Report
    c. Payment of Bills
10. Reports of the Ad Hoc Committees
11. Directors' Forum
12. Public comment for items not on the Agenda

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

13. Adjourn

Cuyama Basin Groundwater Sustainability Agency
Board of Directors Meeting

July 11, 2018

Draft Meeting Minutes

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

PRESENT:
Yurosek, Derek – Chair
Albano, Byron
Bantilan, Cory
Klinchuch, Matt – *Alternate for Tom Bracken*
Cappello, George
Chounet, Paul
Shephard, Glenn
Elliott, Darcel – *Alternate for Das Williams*
Wooster, Jane

Beck, Jim – Executive Director
Hughes, Joe – Legal Counsel

ABSENT:
Compton, Lynn – Vice Chair
Scrivner, Zack

1. **Call to order**
   Chair Derek Yurosek called the meeting to order at 4:00 p.m.

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

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

4. **Presentation from the California Department of Water Resources (Anita Regmi)**
   Mr. Beck introduced California Department of Water Resources (DWR) Engineering Geologist Anita Regmi and Chair Yurosek thanked her for attending the meeting. Ms. Regmi informed the audience that she is the region's point person that handles grant management. She provided a brief overview of the Sustainable Groundwater Management Act (SGMA) timeline, along with the reporting process for the grant administration, and technical assistance support. She urged the Cuyama Basin Groundwater Sustainability Agency (GSA) to apply for technical assistance being offered by DWR on a first-come first-

served basis. Ms. Regmi noted that CBGSA would be given priority access because of its Severely Disadvantaged Community status.

Cuyama Valley Family Resource Center Executive Director Lynn Carlisle asked for clarification regarding the review period of the GSA plans. Ms. Regmi said DWR will begin reviewing the plans in 2020 and it may take up to two years to complete the review period. Ms. Carlisle asked what the GSAs will be doing while the plans are being reviewed. Ms. Regmi said she does not have a definite answer, but the GSAs may begin implementing their GSP programs.

Alternate Darcel Elliott arrived at 4:05 p.m.
Director Cory Bantilan arrived at 4:07 p.m.

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5. Approval of Minutes

Chair Yurosek opened the floor for comments on the June 6, 2018 CBGSA Joint Meeting of the Cuyama Basin Groundwater Sustainability Agency Board of Directors and Standing Advisory Committee. A motion was made by Director Byron Albano to adopt the minutes and seconded by Paul Chounet. Roll call was made, with Director Cory Bantilan abstaining from the vote, and the motion passed.

6. Report of the General Counsel

Nothing to report.

7. Report of the Standing Advisory Committee

CBGSA Standing Advisory Committee (SAC) Vice Chair Brenton Kelly provided a report on the June 28, 2018 SAC meeting which is provided in the Board packet.

Vice Chair Kelly informed the Board that there was an educational discussion on Water Management Areas, monitoring networks and SGMA's requirements for groundwater quality at the last SAC meeting. Vice Chair Kelly encouraged the Board and audience members to attend the SAC meetings, which are held on the Thursday preceding the first Wednesday of the month at the Cuyama Valley Family Resource Center. Vice Chair Kelly noted that the SAC finalized the reviewed and adopted the Description of the Plan Area.

8. Groundwater Sustainability Agency

a. Report of the Executive Director

Executive Director Jim Beck reported that Woodard & Curran (W&C) will purchase a teleconference system that can accept microphone extenders to help improve the sound quality for those participating telephonically.

Mr. Beck stated Ms. Regmi's timing worked out well regarding her report of DWR's technical assistance since W&C's Lyndel Melton stated that they have been tracking the need to drill a monitoring well in order to address data gaps. Mr. Melton noted that this opportunity is not funded through a grant, but DWR will finance drilling the well once the appropriate site is identified. Mr. Beck reinforced that drilling the well is costly and it would be difficult to match the expense with the normal Board cycle. Mr. Beck recommended an ad hoc consisting of three

CBGSA Board members and two SAC members to identify the areas that represent data gap locations and then work with those landowners to process the necessary paperwork. Director Paul Chounet asked how many meetings would be involved with this ad hoc, and Mr. Beck said he anticipated one to two meetings. Director Byron Albano asked if there is an option to put wells on national forest land, but Mr. Melton said that process may move too slowly. Director George Cappello asked for the approximate size of the well. Mr. Melton said it would be a cluster well consisting of three wells about 8 inches each.

Chair Yurosek expressed his concern that a landowner agreement may end up being an easement. Mr. Beck said that the Hallmark Group would work with legal counsel Joe Hughes to develop an agreement to protect both the CBGSA and the landowners.

Chair Yurosek appointed SAC members Brenton Kelly, Brad DeBranch and Directors Albano, Chounet and himself to the DWR Technical Assistance Ad hoc.

Director Cory Bantilan asked if we are agenized for this. Mr. Beck asked Mr. Hughes if this needed to be added to the agenda since this was brought to our attention within the meeting. A motion was made by Director Bantilan to add this item to the agenda and seconded by Director Glenn Shephard. The motion passed unanimously.

Director Albano made a motion to authorize the Ad hoc to select sites for monitoring wells and submit an application to DWR for technical assistance. Director Bantilan seconded the motion and the motion passed unanimously.

Mr. Beck reported that, to reduce printing costs, the hardcopy Board packet distributed to the directors does not include the Description of the Plan Area and the Hydrogeologic Conceptual Model. Mr. Beck mentioned that as the volume of the packets increase, the estimated monthly costs to print exceeds $2,500 and these costs have not been budgeted. Mr. Beck said the Board should address how to manage these printing costs within the budget.

Director Jane Wooster asked if Hallmark could send the updated pages separately prior to the meeting. Mr. Beck said that Hallmark can distribute any updates in both the packet and as a standalone item to accommodate this request.

b. Progress & Next Steps

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

c. DWR Grantee Resolution

This item was tabled since it was determined that an earlier document satisfied the DWR grant requirement intended by this item.

9. Groundwater Sustainability Plan

a. Groundwater Sustainability Plan Update

GSP consultant Woodard & Curran (W&C) staff Lyndel Melton provided an update on the GSP development.

Director Bantilan asked how the CBGSA will get to where it needs to be without groundwater pumping data. Mr. Melton said that W&C has what is needed to calibrate the model. In the future, the Board will have to determine how to monitor groundwater levels through evapotranspiration satellite data, pumping data, or other methods. Mr. Melton noted that this decision point will come with a recommendation from W&C.

b. Technical Forum Update

W&C's Brian Van Lienden provided an overview of the June 8, 2018 technical forum meeting, which is summarized in the Board packet, and an update on the upcoming technical forum meeting.

Ms. Carlisle asked if W&C can identify who is making comments from the technical forum summary, and Mr. Melton replied that they can do this.

c. Description of the Plan Area

Mr. Van Lienden provided an update on the Description of the Plan Area and let the Board know that the revisions of the plan have been distributed to the Board, SAC and public stakeholders.

Director Wooster asked about well measurements that went back to 1983. She said there may be measurements dating back to 1950. Mr. Van Lienden said he will check on this. Mr. Melton said their intention is to get the GSP sections in pretty good shape and then do a final edit when compiling the entire document.

Director Albano made a motion to adopt the Description of the Plan Area, was seconded by Director Shephard and passed unanimously.

d. Hydrogeologic Conceptual Model

Mr. Van Lienden provided an update on the Hydrogeologic Conceptual Model and its review process.

e. Stakeholder Engagement Update: Update on workshops, Discussion on Sustainability

GSP outreach consultant the Catalyst Group Charles Gardiner provided an update on the stakeholder engagement activities. Mr. Gardiner noted that at the June 6, 2018 workshop, community members had their first conversation on sustainability and that these types of discussions will continue through the fall. Mr. Gardiner reported that nearly all perspectives shared a commonality in that the future will look very different in Cuyama. The second common point was that balanced water use is important. Mr. Gardiner reported on what workshop attendees' economic concerns were and their general conceptions of what sustainability is.

Mr. Gardiner stated that at the June 6, 2018 Board meeting, Supervisor Debbie Arnold requested that, in addition to electronic distribution, relevant information in the Cuyama Valley be distributed via mail to reach more residents. Mr. Gardiner let the Board know the team is developing a mailing list and will mail out information on the September 5, 2018 workshop.

Director George Cappello commented that the workshop sustainability discussion header in the PowerPoint needs to be qualified to indicate that these are ideas from workshop attendees and do not represent the sustainability goals of the CBGSA.

Director Albano asked if "stakeholders" has a specific definition. He additionally noted that the term "community" was used often but inquired if these terms carry specific meaning. Mr. Beck said a "stakeholder" is someone that will be impacted by the actions and decisions of the CBGSA Board.

Director Albano said the Board needs to be very careful that at the end of the GSP process, people do not think that the GSP will solve intractable problems. He said that he thinks we need to be careful that we do not ask people if they want a new Ferrari if that is not on the table and that this can be somewhat misleading.

Mr. Melton said that W&C will assist the Board in narrowing down a broad range of information from stakeholder input in defining "sustainability."

Ms. Carlisle commented that she thinks the Board's sustainability opinions should be captured since the community do not seem to know what they are.

Mr. Beck said that the Board will ultimately decide what sustainability is, and it is the Board's prerogative to express those now if they wish, but those opinions will be captured in the GSP and the public will have opportunity to review those documents.

Chair Yurosek asked Mr. Hughes and Melton to define "stakeholder" under SGMA and report back to the Board.

10. Financial Report

a. Financial Management Overview
Mr. Taylor Blakslee provided an overview of the CBGSA's financial activities. Chair Yurosek asked why Hallmark is spending more on its Task Order No. 1 and Mr. Beck replied that Hallmark was preparing for the June workshop and unanticipated activities/requests come up that are taking a lot of time. The Board asked who specifically costing a lot time and Mr. Beck replied that it is multiple people. Mr. Beck suggested that a way to keep costs down is to call the team regarding questions they have instead of sending multiple emails that cause a back and forth interaction.

b. Financial Report
Mr. Blakslee provided an overview of the new expanded financial report.

c. Payment of Bills
Taylor reported on the payment of bills for the month of May 2018. A motion was made by Director Chounet and seconded by Director Bantilan to approve payment of the bills through the month of May 2018 in the amount of $152,815.83, pending receipt of funds. The motion passed unanimously.

11. Reports of the Ad Hoc Committees
Nothing to report.

12. Directors' Forum
Nothing to report.

13. Public comment for items not on the Agenda
Nothing to report.

14. Adjourn
Chair Yurosek adjourned the CBGSA Board at 6:14 p.m.

I, Jim Beck, Executive Director to the Cuyama Basin Groundwater Sustainability Agency Board of Directors, do hereby certify that the foregoing is a fair statement of the proceedings of the meeting held on Wednesday, June 6, 2018, by the Cuyama Basin Groundwater Sustainability Agency Board of Directors and the Standing Advisory Committee.

Jim Beck
Dated: July 11, 2018

TO: Board of Directors
Agenda Item No. 6

FROM: Roberta Jaffe, Standing Advisory Committee Chair

DATE: August 1, 2018

SUBJECT: Report of the Standing Advisory Committee

Issue
Report on the Standing Advisory Committee meeting.

Recommended Motion
None – information only.

Discussion
Provided as Attachment 1 is a report on the July 26, 2018 Standing Advisory Committee (SAC) from SAC Chair Roberta Jaffe and Vice Chair Brenton Kelly.

The purpose of this report is to provide the Cuyama Basin Groundwater Sustainability Agency Board of Directors with SAC input on the various Groundwater Sustainability Plan (GSP) components and issues that will better equip the Board when making decisions on GSP-related issues.

Standing Advisory Committee Report
Meeting: July 26, 2018
Submitted to the GSA Board August 1, 2018
By Roberta Jaffe, SAC Chair
Brenton Kelly SAC Vice-Chair

All 9 members of the SAC were present; 1 telephonically
There were approximately 20 people in the audience including 3 GSA Directors, 1 CCSD Board member and other residents of the community.

Areas of discussion were as follows:

2 Educational topics were discussed during the meeting.
1.Education Topic: Calculating a Water Budget. We were introduced to the basics of a water budget as a way of calculating inflow and outflow of water based on groundwater, surface water, water demands and water supplies. SGMA requires water budgets for 10 most recent years. We can also look at historical hydrology (1960 to present), calculate a current budget and project into the future including potential climate change effects. Water budgets can be calculated for different geographical areas and under different scenarios as well.

2. Education Topic: How a Model Works-Historical Calibration. We were introduced to the Integrated Water Flow Model (IWFM) that was developed by DWR and is the numerical model that will be use to develop the GSP. Much discussion centered around estimated inputs including irrigation efficiency and evapotranspiration. Farmers in the audience said irrigation efficiency is near 90% compared to the 65-75% presented. Questions were asked regarding how pumping will be monitored and if the model will be ground-truthed? Well pumping and total crop demand will need to be monitored and the GSA will choose the technique. The model will not be ground-truthed, but input will be sought from people who know the Basin. Uncertainties within the estimated values will be calculated and considered when making management decisions due to the many data gaps that exist in the basin.

3. Ad Hoc Committee formed: With draft GSP documents being presented for public review at an accelerating pace, several members of the SAC want to set up a public study session to gain & share greater understanding of these documents. While there was general support from the SAC and the audience for this need there was concern from both legal counsel and the Executive Director regarding the Brown Act and any budget impact due to potential administrative staff time. 4 members of the SAC volunteered for an Ad Hoc Committee to develop some solutions. The Ad Hoc Committee will report back to the next SAC meeting. And if approved it will be brought to the September GSA meeting for review.

5. GSP Update: Current Basin Conditions. Maps were presented showing historic and current groundwater monitoring wells; groundwater quality for salinity, nitrates and arsenic; subsidence; and surface water flows. It was noted that there are gaps in the data for subsidence and surface water flows. Some adjustments need to be made to

some of the maps. It was also questioned as to how to get more current readings of the water quality levels.

6. GSP Update: Draft Undesirable Results. We were given a brief overview of the narrative of the draft for Undesirable Results. This draft does not include any of the numerical values which will be added at a later date. Public comment is due August 17th.

7. GSP Update: Outreach. The next workshop is scheduled for September 5th and will have a focus on introducing the models for the Basin. The next newsletter will be distributed the first week in August.

8. Miscellaneous questions and discussion.
Key questions focused on how to calculate for evapotranspiration, how to address data gaps and how to verify that input to the model, and the model itself, are accurate. It was noted that due to time & budget constraints, ground truthing of data and water budget inputs will not be possible. While not discussed at the meeting, spreadsheets with W&C's response to the public comments on the draft Hydrological Conceptual Model were being made available. Final review and approval of the HCM will be sought at next month's meetings.

9. Summary.
Two educational topics were presented: Water Budgets and the IWFM Model. An Ad Hoc Committee of 4 SAC members was established to address the request for public study sessions to review draft GSP components. There was a great deal of information presented and discussed and the meeting lasted for 3 hours (which was projected in advance). Discussion from both the SAC and the audience continues to be robust and informative.

TO: Board of Directors
Agenda Item No. 7b

FROM: Jim Beck, Executive Director

DATE: August 1, 2018

SUBJECT: Progress & Next Steps

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

Recommended Motion
None – information only.

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

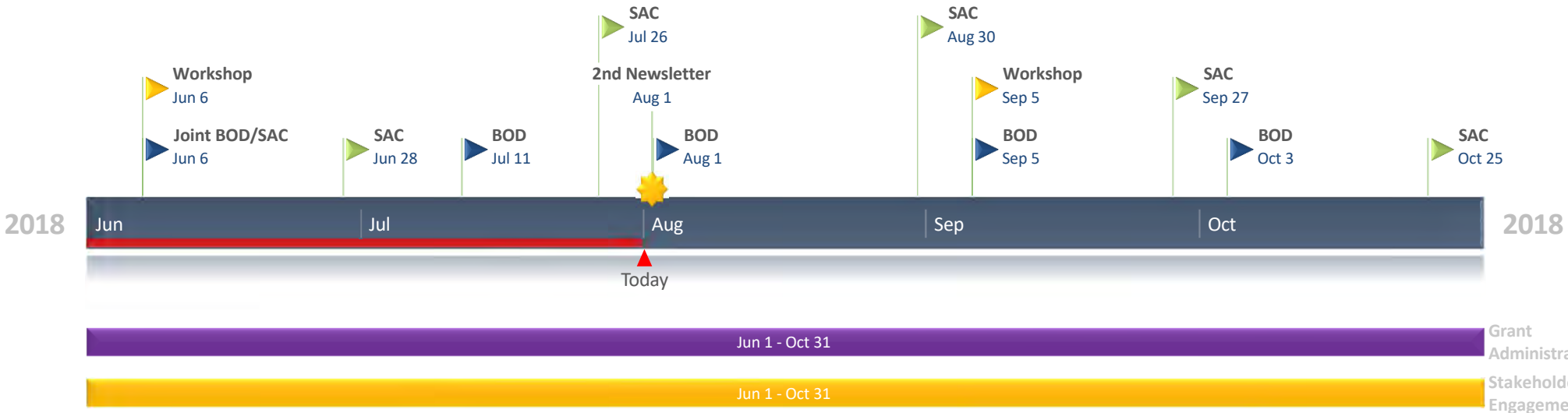
Cuyama Basin Groundwater Sustainability Agency

Progress & Next Steps

August 1, 2018

Cuyama Basin Groundwater Sustainability Agency

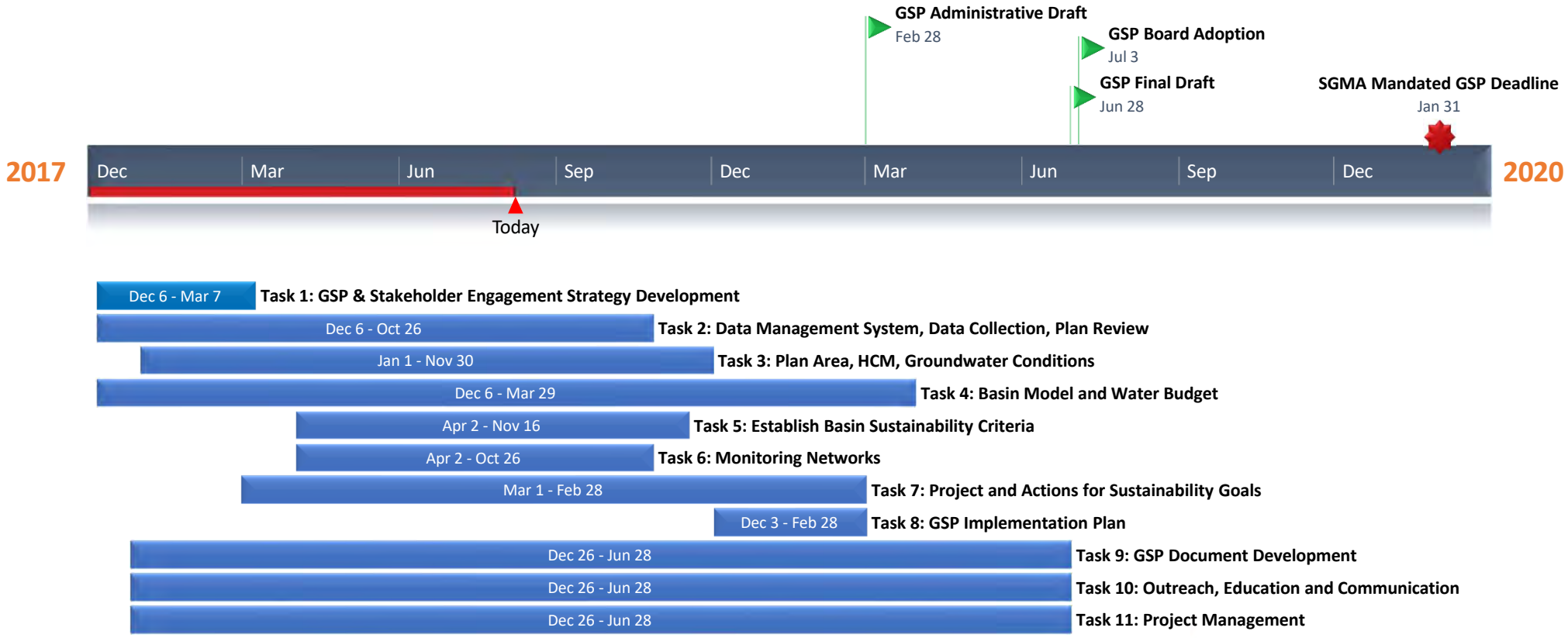
Near-Term Schedule



Draft for Discussion Only August 1, 2018

Cuyama Basin Groundwater Sustainability Agency

Program Schedule



Accomplishments & Next Steps

Accomplishments

- ✓ Developed stakeholder mailing list
- ✓ Facilitated DWR Tech Assistant Ad hoc
- ✓ Processed backup for Santa Barbara CWA for grant fund reimbursement

Next Steps

- Continue grant admin doc submittal
- Collect second assessment funds

TO: Board of Directors
Agenda Item No. 8a

FROM: Jim Beck, Executive Director

DATE: August 1, 2018

SUBJECT: Groundwater Sustainability Plan Update

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

Recommended Motion
None – information only.

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

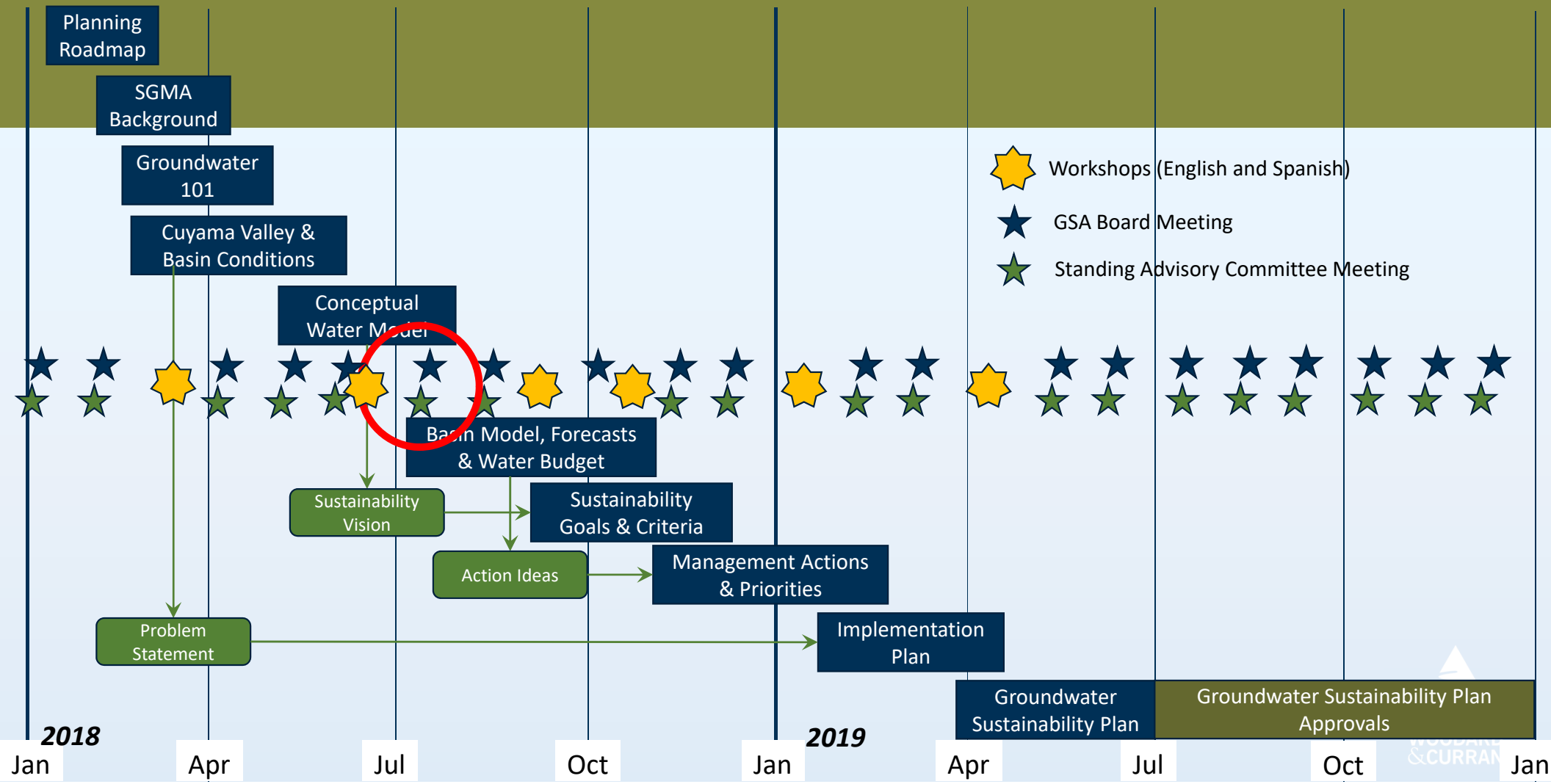
Attachment 1

Cuyama Basin Groundwater Sustainability Agency

Groundwater Sustainability Plan Update

August 1, 2018

Cuyama Basin Groundwater Sustainability Plan – Planning Roadmap



July GSP Accomplishments

- ✓ Updated Description of Plan Area section in response to comments
- ✓ Distributed draft Undesirable Results Narrative
- ✓ Finalized data collection and processing
- ✓ Identified potential DWR Technical Support Services requests
- ✓ Continued work on data management system
- ✓ Continued work on GSP numerical model

WOODARD &CURRAN

TO: Board of Directors
Agenda Item No. 8b

FROM: Lyndel Melton, Woodard & Curran (W&C)

DATE: August 1, 2018

SUBJECT: Technical Forum Update

Issue
Update on the Technical Forum.

Recommended Motion
None – information only.

Discussion
At the request of Cuyama Valley landowners, Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan (GSP) consultant Woodard & Curran (W&C) has been meeting monthly with technical consultants representing landowners to discuss W&C's approach and to provide input where appropriate.

A summary of the topics discussed at the July 13, 2018 technical forum meeting is provided as Attachment 1, and the next forum is scheduled for August 3, 2018.

MEETING MEMORANDUM

PROJECT: Cuyama Basin Groundwater Sustainability Plan Development

MEETING DATE: 7/13/2018

MEETING: Technical Forum Conference Call

ATTENDEES: Matt Young (Santa Barbara County Water Agency)
Matt Scrudato (Santa Barbara County Water Agency)
Matt Klinchuch (Cuyama Basin Water District)
Dennis Gibbs (Santa Barbara Pistachio Company)
Anona Dutton (EKI)
Neil Currie (Cleath-Harris Geologists)
John Fio (HydroFocus)
Matt Naftaly (Dudek)
Brian Van Lienden (Woodard & Curran)
Ali Taghavi (Woodard & Curran)
John Ayres (Woodard & Curran)
Sercan Ceyhan (Woodard & Curran)

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1. AGENDA

- Review and Comparison of Data Received
- Discussion on Undesirable Results and Minimum Thresholds
- Next steps

2. DISCUSSION ITEMS

The following table summarizes comments raised during the conference call and the response and plan for resolution (if appropriate) identified for each item.

Item No.	Comment	Commenter	Response/Plan for Resolution
1	What is the basis for saying that there is a 90% concurrence between DWR/LandIQ land use and Boltouse/Grimmway data	John Fio	This is based on a parcel by parcel comparison of the available data
2	Can the comparison between DWR/LandIQ and Bolthouse/Grimmway land use data be used to improve the data available for the GSP	Anona Dutton	The LandIQ data will be used to supplement parcels/years where data is not available from Bolthouse/Grimmway. The data in the common land areas will be reviewed to confirm if any adjustments are warranted.

3	When we are doing the modeling, do we assume that pumping locations are the same going back in time (i.e. the current snapshot of well locations) or will they change over time?	Anona Dutton	The W&C team is open to ideas on this question. The data that we have doesn't have a timestamp, so we would need to have information on when new wells came on line historically. We can also see if changes in well depths provide an indication during calibration.
4	Will the model assume point well locations or use a distributed pumping approach	Anona Dutton	The current plan is to use the specific well locations for Bothouse and Grimmway wells (where we have a higher confidence in the available data) and to use a distributed pumping approach in other areas of the Basin.
5	Did we receive any historical pumping data?	Anona Dutton	Very little pumping data is available; therefore pumping amounts will need to be estimated by the model.

3. FEEDBACK ON UNDESIRABLE RESULTS AND MINIMUM THRESHOLDS

The Technical Forum members discussed potential ideas for undesirable results and minimum thresholds. These are summarized below for each sustainability indicator.

Lowering of Groundwater Levels

- The effects on domestic and municipal use should be a high priority
- The historical low value is considered a reasonable starting point in other basins
- We could also look at the levels in recent years (i.e. 2015 and 2017) and also compare those to the historical drought in 1992

Reduction in Groundwater Storage

- The SGMA regulations call for extractions to be compared to sustainable yields, but that isn't an effective approach in the Cuyama Basin
- It is not possible to measure groundwater storage – this can only be done with a numerical model. It would be especially difficult in the Western portion of the Basin because of it's tectonically shaped nature

Degraded Water Quality

- The Western portion of the Basin has salinity levels significantly below other parts of the Basin
- We should consider looking at changes in current quality levels as compared to historical levels
- We should look at whether other constituents besides salt are above MCL levels
- We should look at whether we can discuss constituent migration

Land Subsidence

- Oil operations will affect subsidence in the Western portion of the Basin
- Subsidence data will be provided in the Groundwater Conditions section
- The W&C team is open to ideas, especially on what is being done in other basins

Surface Water Depletions

- We have a poor understanding of current conditions due to the lack of stream gages
- We could potentially satisfy this requirement by saying that effects on surface flows would be minimal due to an absence of groundwater-surface water connection
- We may want to consider the effect on springs – the USGS model utilized boundary conditions to represent springs. But a lot of in-basin springs are related to fault conditions


Cuyama Basin Groundwater Sustainability Agency
Technical Forum Update
August 1, 2018
WOODARD
&CURRAN

July 13th Technical Forum Discussion

- Review and Comparison of Data Received
- Discussion on Undesirable Results and Minimum Thresholds
- Next steps
- Next Meeting – August 3rd
- Monthly Meetings – first Friday after each Board meeting

WOODARD &CURRAN

Technical Forum Members

- Catherine Martin, San Luis Obispo County
- Matt Young, Santa Barbara County Water Agency
- Matt Scrudato, Santa Barbara County Water Agency
- Matt Klinchuch, Cuyama Basin Water District
- Jeff Shaw, EKI
- Anona Dutton, EKI
- John Fio, HydroFocus
- Dennis Gibbs, Santa Barbara Pistachio Company
- Neil Currie, Cleath-Harris Geologists
- Matt Naftaly, Dudek

WOODARD &CURRAN

TO: Board of Directors
Agenda Item No. 8c

FROM: Lyndel Melton and Brian Van Lienden, Woodard & Curran (W&C)

DATE: August 1, 2018

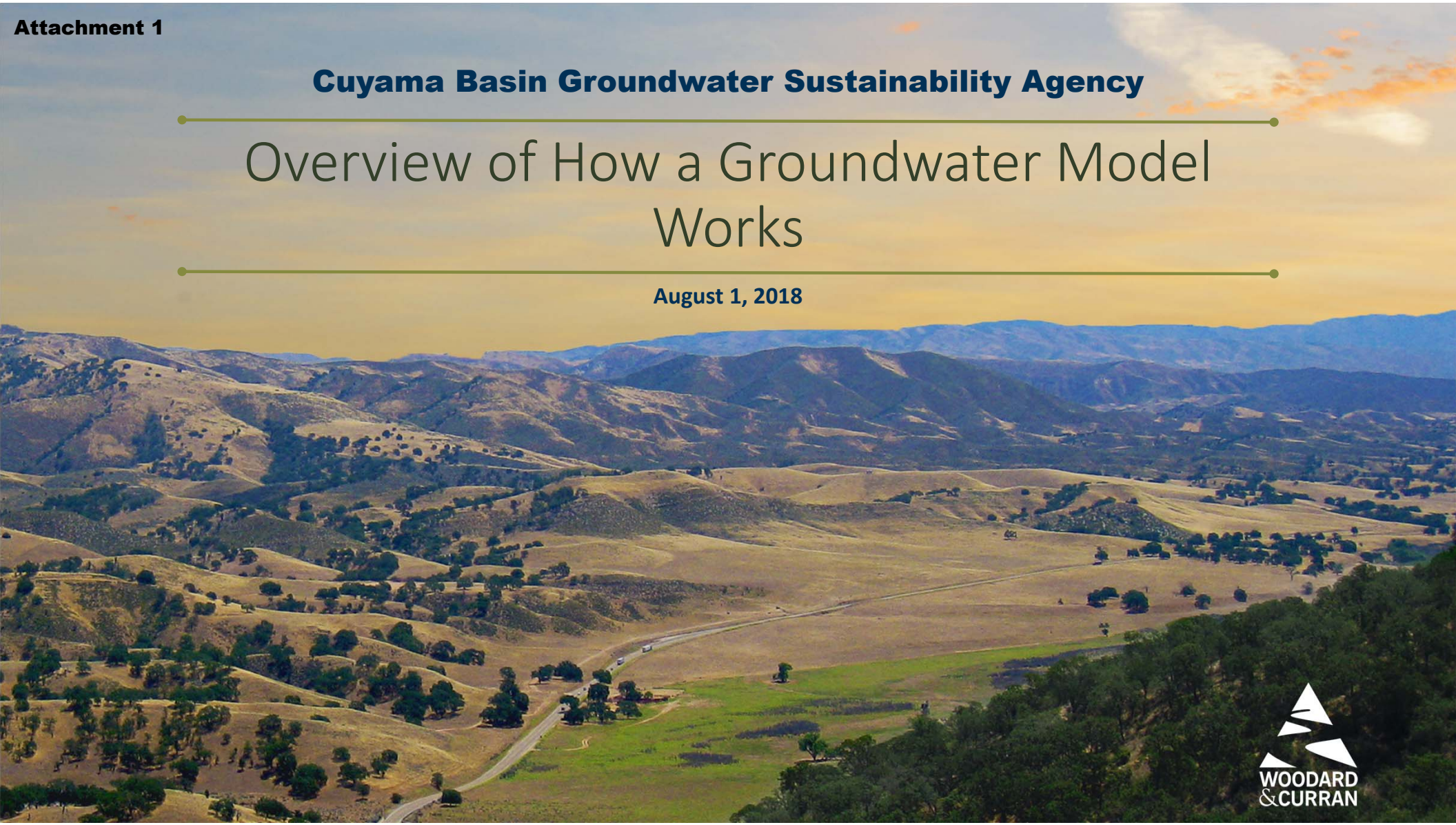
SUBJECT: Overview of How a Groundwater Model Works

Issue
An overview of how a groundwater model works.

Recommended Motion
None – information only.

Discussion
An overview of how a groundwater model works is provided as Attachment 1.

Attachment 1



Cuyama Basin Groundwater Sustainability Agency

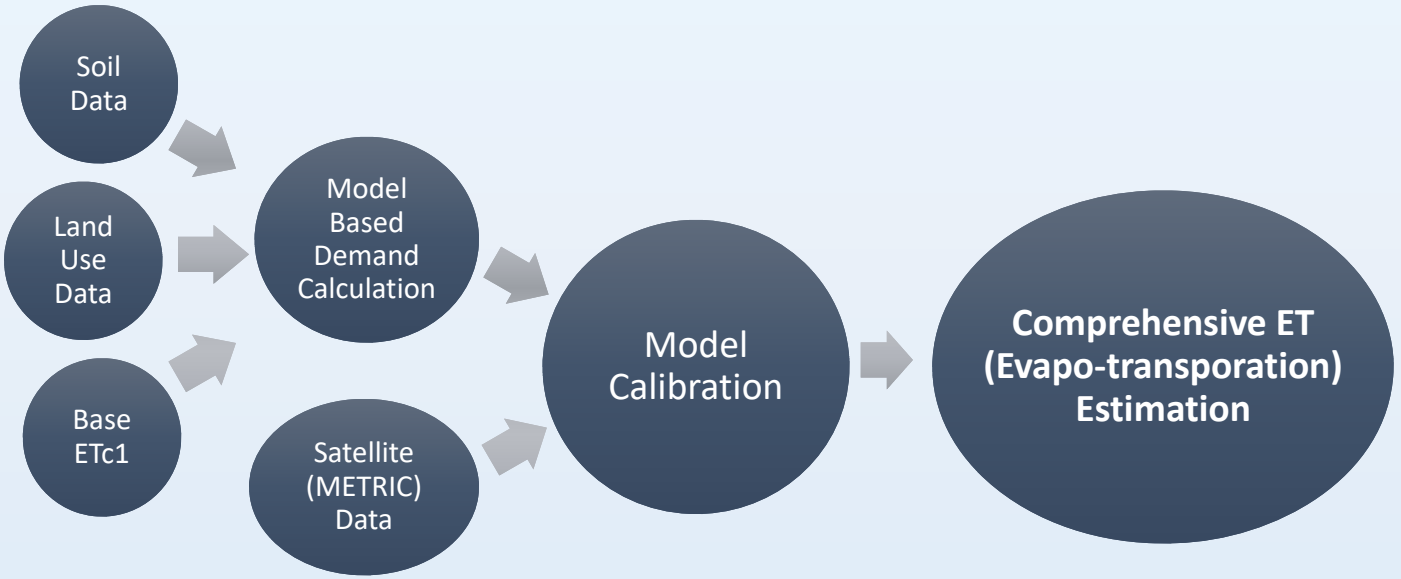
Overview of How a Groundwater Model Works

August 1, 2018

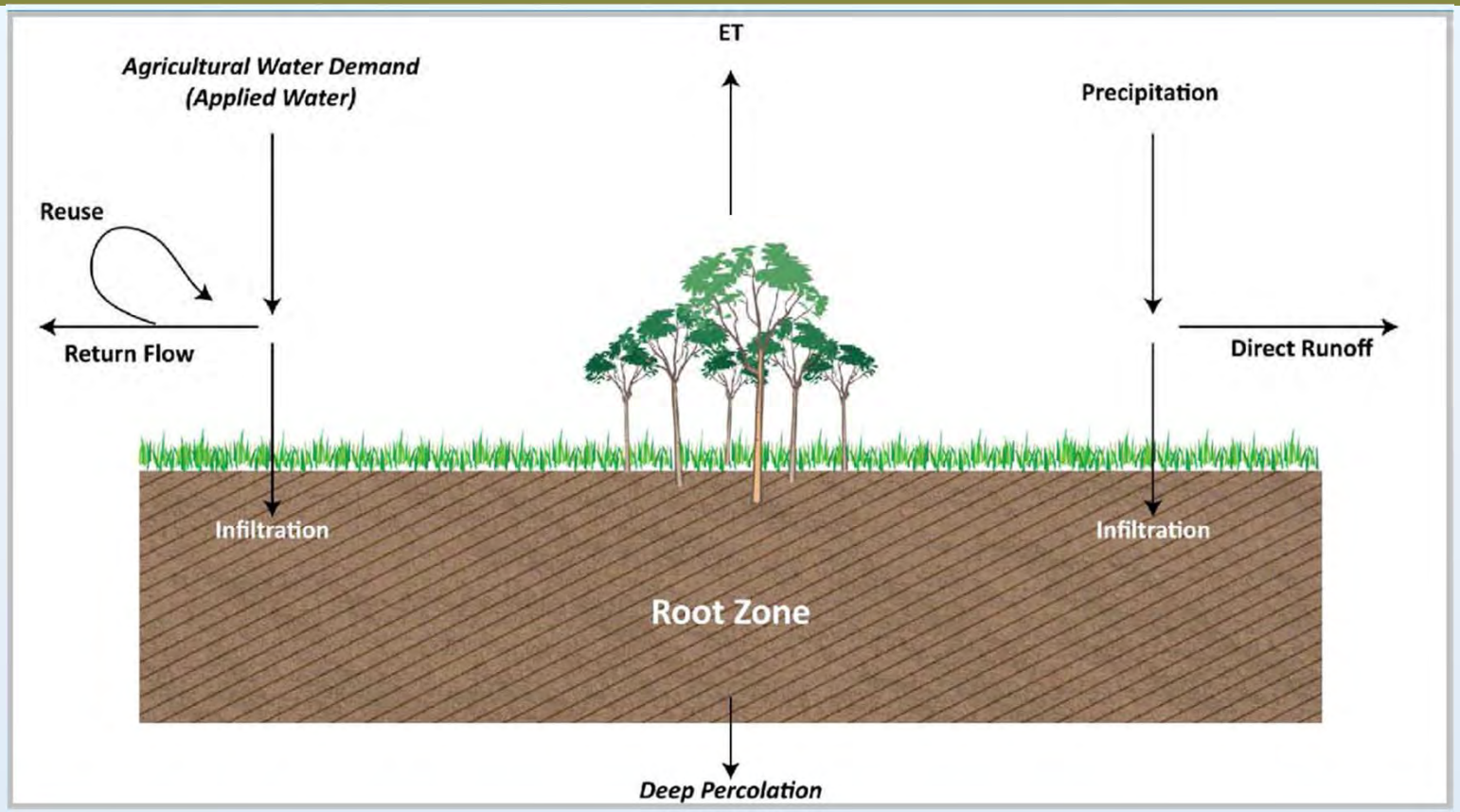
WOODARD &CURRAN

Agricultural Demand and GW Pumping Estimation

$$Agricultural\ Irrigation\ Demand = \frac{ET\ from\ Applied\ Water}{Irrigation\ Efficiency}$$



Estimation of Agricultural Water Demand (Applied Water)



Model Calibration is the process of adjusting model parameters so that the model properly represents the observed data as closely as possible

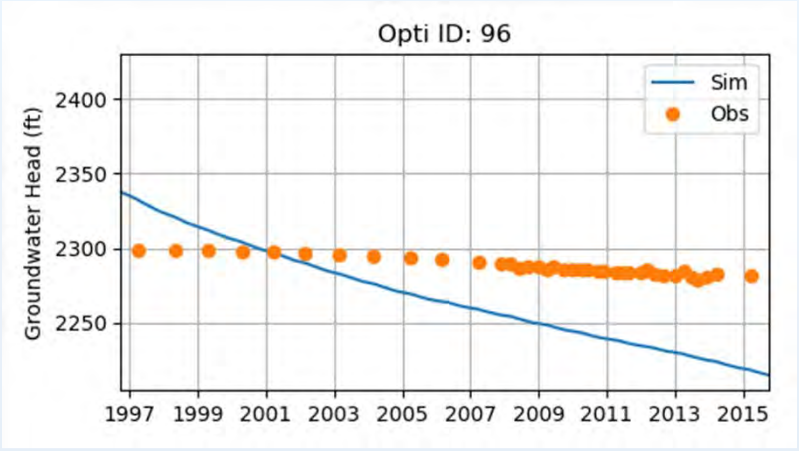
- Typical areas for which the model is calibrated are:
  - Water Budget
    - Land surface system
    - Groundwater system
    - Stream system
  - Groundwater Levels
  - Stream Flows

Typical Parameters Considered for Calibration:

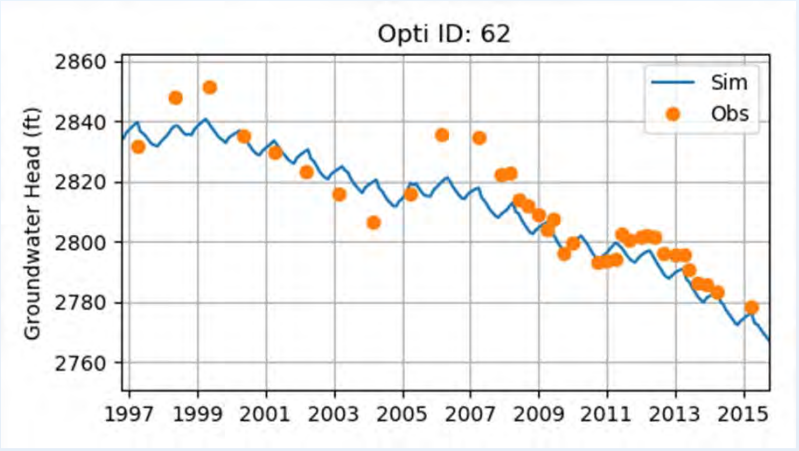
- Land Surface Processes – Soil Parameters and Deep Percolation
- Boundary Flows from the Small Watersheds
- Aquifer Hydraulic Parameters – K, S_y, S_s
- Stream-Aquifer Interaction – C_b

WOODARD &CURRAN

Model Calibration – Groundwater Levels



Poor Calibration



Good Calibration

WOODARD &CURRAN

TO: Board of Directors
Agenda Item No. 8d

FROM: Brian Van Lienden, Woodard & Curran (W&C)

DATE: August 1, 2018

SUBJECT: Current Basin Water Conditions

Issue
Update on the Current Basin Water Conditions.

Recommended Motion
None – information only.

Discussion
An update on the current basin water conditions is provided as Attachment 1.

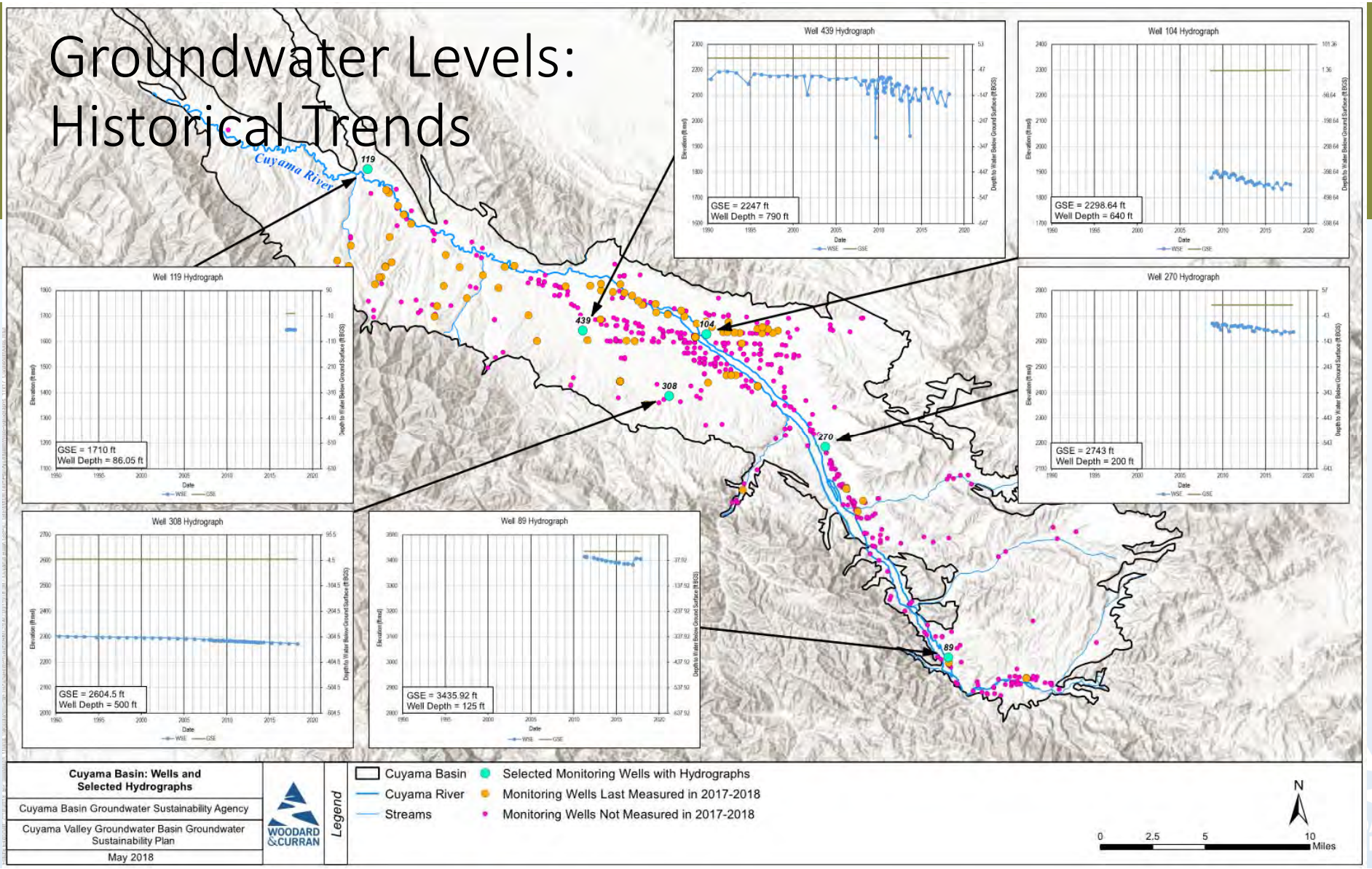
Attachment 1

Cuyama Basin Groundwater Sustainability Agency

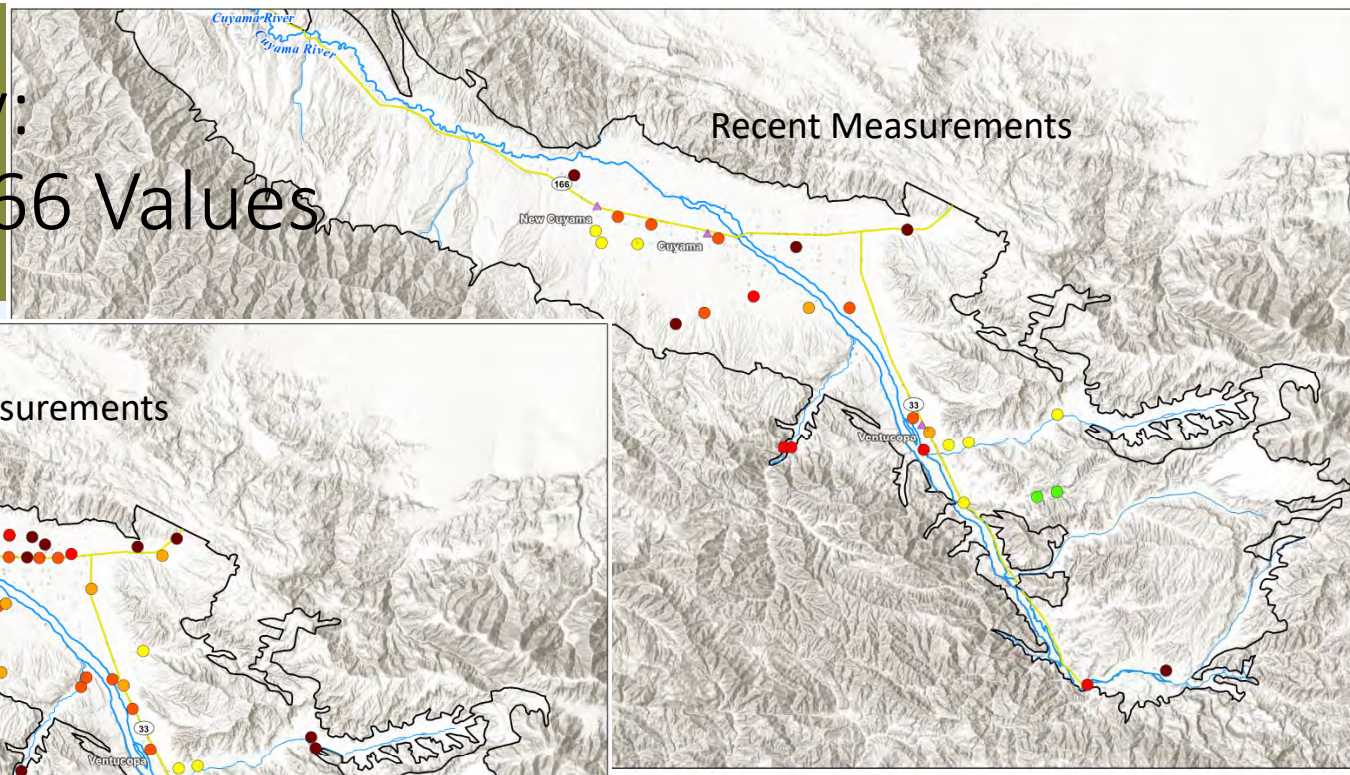
Current Basin Water Conditions

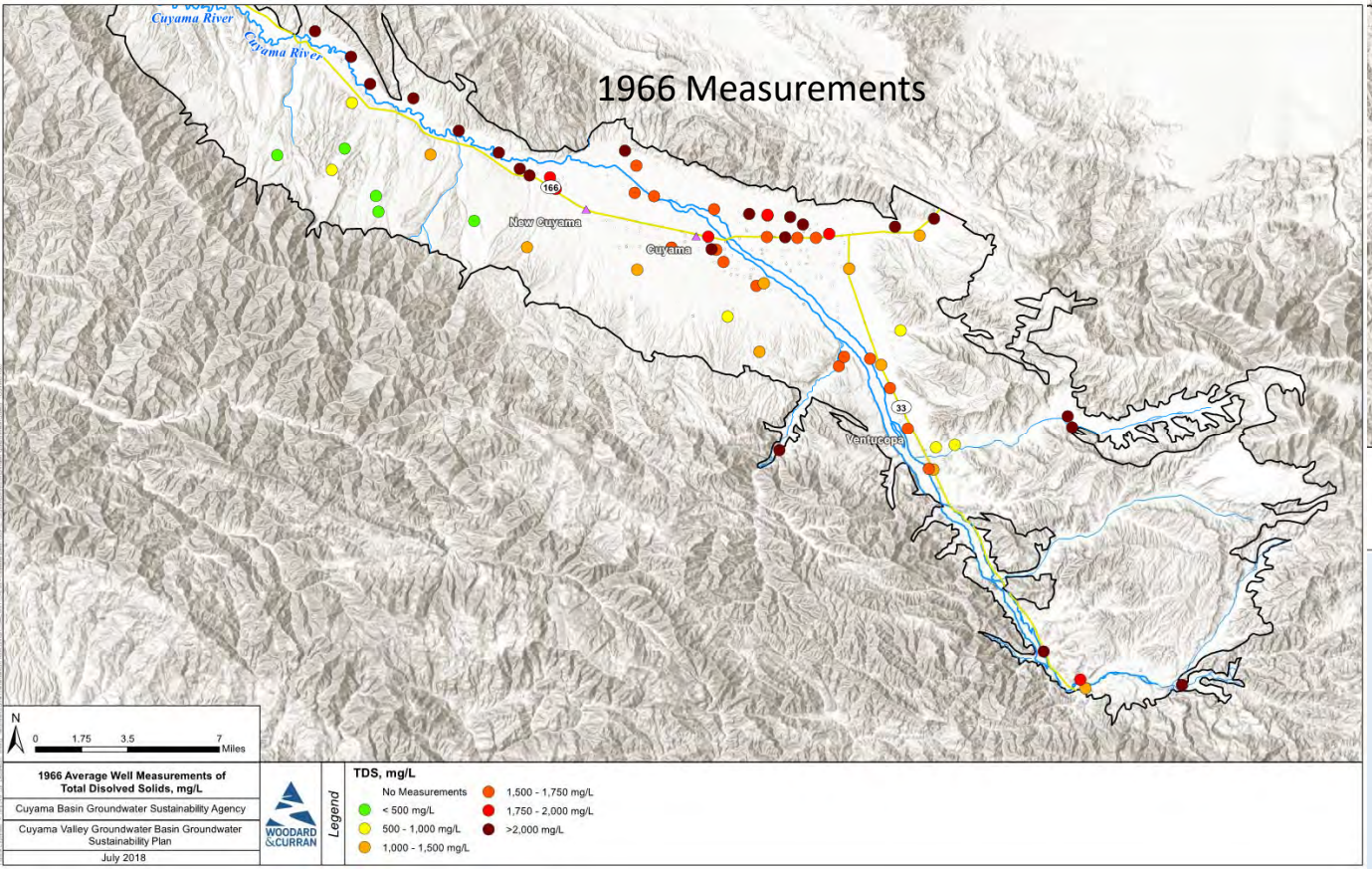
August 1, 2018

Groundwater Levels: Historical Trends



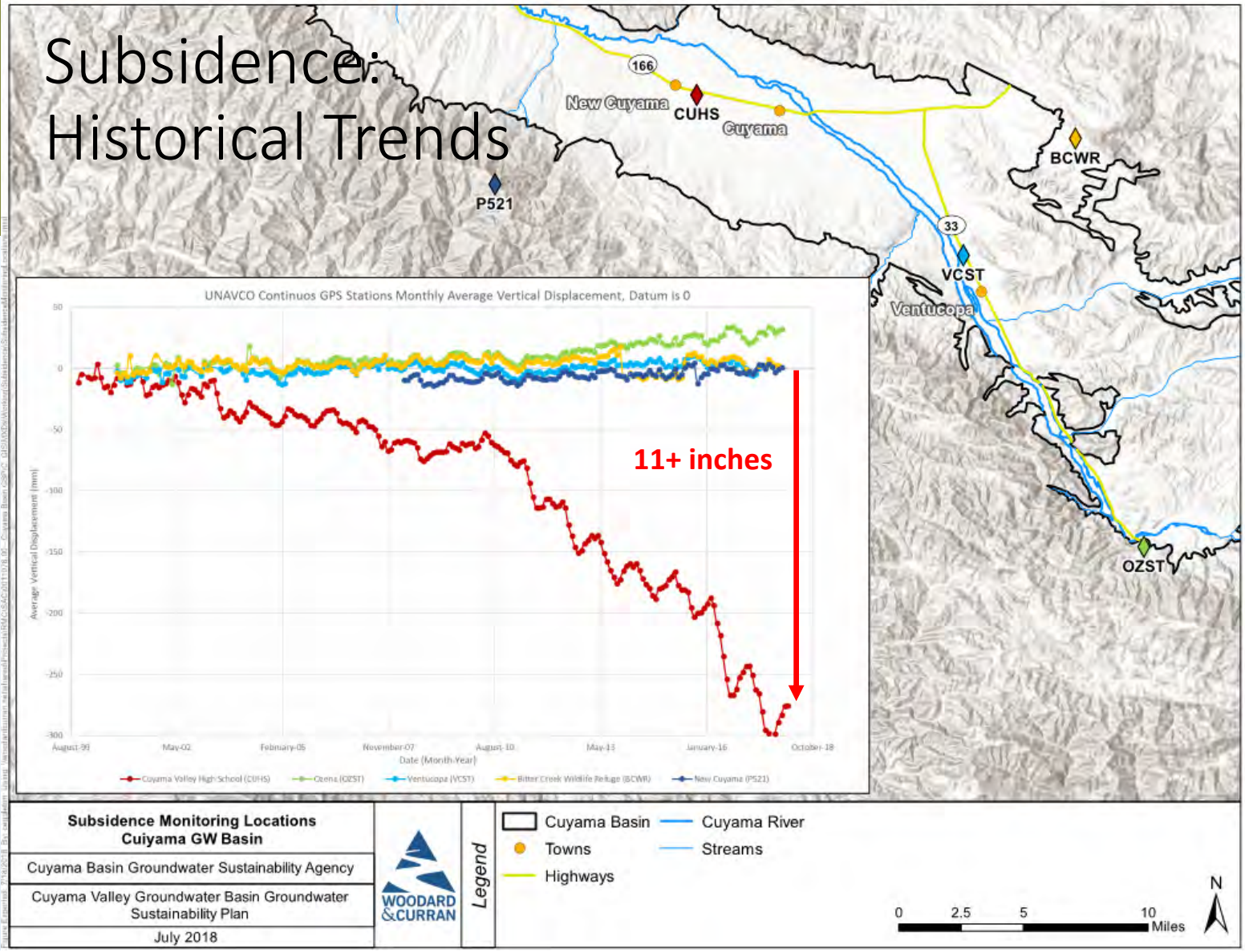
Groundwater Quality: Recent Salinity vs 1966 Values





WOODARD &CURRAN

Subsidence: Historical Trends



TO: Board of Directors
Agenda Item No. 8e

FROM: Brian Van Lienden, Woodard & Curran (W&C)

DATE: August 1, 2018

SUBJECT: Draft Undesirable Results Narrative

Issue
Update on the Draft Undesirable Results Narrative.

Recommended Motion
None – information only.

Discussion
An update on the draft Undesirable Results narrative is provided as Attachment 1.

Memorandum - DRAFT
Undesirable Results Statements

Subject:	**Undesirable Results Statements**
Prepared For:	Cuyama Valley Basin Groundwater Sustainability Plan
Prepared by:	John Ayres, Brian Van Linden
Reviewed by:	Ali Taghavi, Lyndel Melton
Date:	June 18, 2018

This memorandum presents a draft version of the Undesirable Results section of the Cuyama Valley Groundwater Basin (basin) Groundwater Sustainability Plan (GSP). The Undesirable Results statements in this section are a key component of the GSP, as other GSP components must be developed to set quantitative thresholds on monitoring points that indicate where Undesirable Results would occur on the monitoring network, and to shape the monitoring network to detect the Undesirable Results.

This memorandum has two sections: The first section is the draft Undesirable Results section, and the second section contains guidance from relevant portions of the GSP regulations about Undesirable Results and guidance about Undesirable Results from the Sustainable Management Criteria Best Management Practices (BMP).

A public workshop was held on June 6th, 2018 where sustainability and undesirable outcomes were discussed. Input from that meeting was tallied in a table where the inputs were tied to the most relevant GSP component. The sorted results were used to guide creation of the Undesirable Results statements and are included in Attachment A.

Draft Undesirable Results Statements

Undesirable results are defined for use in SGMA as one or more of the following effects caused by groundwater conditions occurring throughout the basin:

(1) Chronic lowering of groundwater levels indicating a significant and unreasonable depletion of supply if continued over the planning and implementation horizon. Overdraft during a period of drought is not sufficient to establish a chronic lowering of groundwater levels if extractions and groundwater recharge are managed as necessary to ensure that reductions in groundwater levels or storage during a period of drought are offset by increases in groundwater levels or storage during other periods.

(2) Significant and unreasonable reduction of groundwater storage.

(3) Significant and unreasonable seawater intrusion.

(4) Significant and unreasonable degraded water quality, including the migration of contaminant plumes that impair water supplies.

(5) Significant and unreasonable land subsidence that substantially interferes with surface land uses.

(6) Depletions of interconnected surface water that have significant and unreasonable adverse impacts on beneficial uses of the surface water.

Undesirable results related to seawater intrusion are not present in the basin and are not likely to occur in the basin.

Information is provided below for each effect, as it applies to the basin. For the sustainability indicators relevant to the basin, the discussion includes a description of the undesirable result, identification of undesirable results, potential causes of undesirable results, and potential effects of undesirable results on beneficial uses. For the indicator not present, justification for not establishing undesirable results is provided. The information was developed based on the water code, regulations, BMP, and stakeholder input.

Chronic Lowering of Groundwater Levels

Description of Undesirable Results

The Undesirable Result for the chronic lowering of groundwater levels is a result that causes significant and unreasonable reduction in the long-term viability of domestic, agricultural, municipal, or environmental uses over the planning and implementation horizon of this GSP.

Identification of Undesirable Results

This result is considered to occur during GSP implementation when XX% of representative monitoring wells (XX of XX) for levels fall below their minimum groundwater elevation thresholds for (two to four) consecutive years.

Potential Causes of Undesirable Results

Potential causes of Undesirable Results for the chronic lowering of groundwater levels are groundwater pumping that exceeds the average sustainable yield in the basin, and changes in precipitation in the Cuyama Watershed in the future.

Potential Effects of Undesirable Results

If groundwater levels were to reach Undesirable Results, the Undesirable Results could cause potential de-watering of existing groundwater infrastructure, starting with the shallowest wells, could potentially adversely affect groundwater dependent ecosystems, and potentially cause changes in irrigation practices, crops grown, and adverse effects to property values. Additionally, reaching Undesirable Results for groundwater levels could adversely affect domestic and municipal uses, which rely on groundwater in the subbasin.

Reduction of Groundwater Storage

Description of Undesirable Results

The undesirable result for the reduction in groundwater storage is a result that causes significant and unreasonable reduction in the viability of domestic, agricultural, municipal, or environmental uses over the planning and implementation horizon of this GSP.

Identification of Undesirable Results

This result is considered to occur during GSP implementation when XX% of proxy monitoring wells (XX of XX) for levels (and quality) fall below the proxy for groundwater storage minimum thresholds for (two to four) consecutive years.

Potential Causes of Undesirable Results

Potential causes of Undesirable Results for the reduction in groundwater storage are groundwater pumping that exceeds the average sustainable yield in the basin, and decreases in precipitation in the Cuyama Watershed in the future.

Potential Effects of Undesirable Results

If reduction of groundwater in storage were to reach Undesirable Results, the Undesirable Results could cause potential de-watering of existing groundwater infrastructure, starting with the shallowest wells, could potentially adversely affect groundwater dependent ecosystems, and potentially cause changes in irrigation practices, crops grown, and adverse effects to property values. Additionally, reaching Undesirable Results for reduction of groundwater in storage could adversely affect domestic and municipal uses, which rely on groundwater in the subbasin.

Seawater Intrusion

Seawater intrusion is not an applicable sustainability indicator, because seawater intrusion is not present and is not likely to occur due to the distance between the basin and the Pacific Ocean, bays, deltas, or inlets.

Degraded Water Quality

Description of Undesirable Results

The Undesirable Result for degraded water quality is a result stemming from a causal nexus between SGMA-related groundwater quantity management activities and groundwater quality that causes significant and unreasonable reduction in the long-term viability of domestic, agricultural, municipal, or environmental uses over the planning and implementation horizon of this GSP.

Identification of Undesirable Results

This result is considered to occur during GSP implementation when XX% of representative monitoring points (XX of XX sites) exceed the minimum threshold for a constituent for two consecutive years.

Potential Causes of Undesirable Results

Potential causes of Undesirable Results for the degraded water quality are conditions where groundwater pumping degrades the groundwater quality.

Potential Effects of Undesirable Results

If groundwater quality were degraded to reach Undesirable Results, the Undesirable Results could potentially cause a shortage in supply to groundwater users, with domestic wells being most vulnerable as treatment costs or access to alternate supplies can be high for small users. Some water quality issues could potentially cause more impact on agricultural uses than municipal or domestic uses, depending on the impact of the contaminant to these water use sectors. Water quality degradation could cause potential changes in irrigation practices, crops grown, and adverse effects to property values. Additionally, reaching

Undesirable Results for groundwater quality could adversely affect municipal uses, which could have to install treatment systems.

Land Subsidence

Description of Undesirable Results

The Undesirable Result for land subsidence is a result that causes significant and unreasonable reduction in the viability of the use of infrastructure over the planning and implementation horizon of this GSP.

Identification of Undesirable Results

This result is detected to occur during GSP implementation when XX% of representative subsidence monitoring sites (XX of XX sites) exceed the minimum threshold for subsidence over five years.

Potential Causes of Undesirable Results

Potential causes of future Undesirable Results for land subsidence are likely tied to groundwater pumping resulting in dewatering of compressible clays in the subsurface.

Potential Effects of Undesirable Results

If land subsidence conditions were to reach Undesirable Results, the Undesirable Results could potentially cause damage to infrastructure, including water conveyance facilities and flood control facilities roads, utilities, buildings, and pipelines.

Depletions of Interconnected Surface Water

Description of Undesirable Results

The Undesirable Result for depletions of interconnected surface water is a result that causes significant and unreasonable reductions in the viability of agriculture or riparian habitat within the basin over the planning and implementation horizon of this GSP.

Identification of Undesirable Results

This result is considered to occur during GSP implementation when XX% of representative monitoring wells on the groundwater level monitoring network (XX of XX sites) exceed the proxy minimum thresholds for depletions of interconnected surface water.

Justification of Groundwater Elevations as a Proxy

Use of groundwater elevation as a proxy metric for Undesirable Results is necessary given the difficulty and cost of direct monitoring of depletions of interconnected surface water. The depletion of interconnected surface water is driven by a gradient between water surface elevation in the surface water body and groundwater elevations in the connected, shallow groundwater system. By setting minimum thresholds on shallow groundwater wells near surface water, this gradient is managed, and, in turn, depletions of interconnected surface water are managed.

Potential Causes of Undesirable Results

Potential causes of future Undesirable Results for depletions of interconnected surface water are likely tied to groundwater production, particularly in the shallowest zones, where surface water and groundwater are connected. Increased depletions could resultin lowering of groundwater elevations in shallow aquifers near surface water courses, which changes the hydraulic gradient between the water surface elevation in the surface water course and the groundwater elevation, resulting in an increase in depletion.

Potential Effects of Undesirable Results

If depletions of interconnected surface water were to reach Undesirable Results, groundwater dependent ecosystems could be affected.

Related Regulations and Best Management Practices

Undesirable Results Regulations § 354.26:

The regulations have seven entries about Undesirable Results:

"(a) Each Agency shall describe in its Plan the processes and criteria relied upon to define Undesirable Results applicable to the basin. Undesirable Results occur when significant and unreasonable effects for any of the sustainability indicators are caused by groundwater conditions occurring throughout the basin."

“(b) The description of Undesirable Results shall include the following:”

"(1) The cause of groundwater conditions occurring throughout the basin that would lead to or has led to Undesirable Results based on information described in the basin setting, and other data or models as appropriate."

"(2) The criteria used to define when and where the effects of the groundwater conditions cause Undesirable Results for each applicable sustainability indicator. The criteria shall be based on a quantitative description of the combination of minimum threshold exceedances that cause significant and unreasonable effects in the basin."

"(3) Potential effects on the beneficial uses and users of groundwater, on land uses and property interests, and other potential effects that may occur or are occurring from Undesirable Results."

"(c) The Agency may need to evaluate multiple minimum thresholds to determine whether an Undesirable Result is occurring in the basin. The determination that Undesirable Results are occurring may depend upon measurements from multiple monitoring sites, rather than a single monitoring site."

"(d) An Agency that is able to demonstrate that Undesirable Results related to one or more sustainability indicators are not present and are not likely to occur in a basin shall not be required to establish criteria for Undesirable Results related to those sustainability indicators."

Sustainable Management Criteria Best Management Practices

The BMP describes sustainability indicators and their relationship to Undesirable Results.

Sustainability Indicators

Sustainability indicators are the effects caused by groundwater conditions occurring throughout the basin that, when significant and unreasonable, become Undesirable Results.[6] Undesirable Results are one or more of the following effects:

- Chronic lowering of groundwater levels indicating a significant and unreasonable depletion of supply if continued over the planning and implementation horizon. Overdraft during a period of

drought is not sufficient to establish a chronic lowering of groundwater levels if extractions and groundwater recharge are managed as necessary to ensure that reductions in groundwater levels or storage during a period of drought are offset by increases in groundwater levels or storage during other periods

- Significant and unreasonable reduction of groundwater storage
- Significant and unreasonable seawater intrusion
- Significant and unreasonable degraded water quality, including the migration of contaminant plumes that impair water supplies
- Significant and unreasonable land subsidence that substantially interferes with surface land uses
- Depletions of interconnected surface water that have significant and unreasonable adverse impacts on beneficial uses of the surface water

The significant and unreasonable occurrence of any of the six sustainability indicators constitutes an Undesirable Result.

The default position for GSAs should be that all six sustainability indicators apply to their basin. If a GSA believes a sustainability indicator is not applicable for their basin, they must provide evidence that the indicator does not exist and could not occur. For example, GSAs in basins not adjacent to the Pacific Ocean, bays, deltas, or inlets may determine that seawater intrusion is not an applicable sustainability indicator, because seawater intrusion does not exist and could not occur. In contrast, simply demonstrating that groundwater levels have been stable in recent years is not sufficient to determine that land subsidence is not an applicable sustainability indicator. As part of the GSP evaluation process, the Department will evaluate the GSA's determination that a sustainability indicator does not apply for reasonableness.

Significant and Unreasonable Conditions

GSAs must consider and document the conditions at which each of the six sustainability indicators become significant and unreasonable in their basin, including the reasons for justifying each particular threshold selected. A GSA may decide, for example, that localized inelastic land subsidence near critical infrastructure (e.g., a canal) and basinwide loss of domestic well pumping capacity due to lowering of groundwater levels are both significant and unreasonable conditions. These general descriptions of significant and unreasonable conditions are later translated into quantitative Undesirable Results, as described in this document. The evaluation of significant and unreasonable conditions should identify the geographic area over which the conditions need to be evaluated so the GSA can choose appropriate representative monitoring sites.

Sustainability Goal [1]: **To maintain a viable groundwater resource for the beneficial use of the people and the environment of the Cuyama Groundwater Basin now and into the future.**					
Sustainability Indicator [2]	**I. GROUNDWATER ELEVATION**	**II. GROUNDWATER STORAGE**	**III. WATER QUALITY**	**IV. LAND SUBSIDENCE**	**V. SURFACE WATER CONNECTIVITY**
Undesirable Result Considerations [3]	Chronic lowering of groundwater levels indicating unreasonable depletion of supply, which results in: • Adverse impacts to the viability of agriculture, and the agricultural economy. • Adverse impacts to the viability of CSD and other domestic water users. • Dewatering of wells.	Unreasonable reduction of groundwater storage, which results in: • Adverse impacts to the viability of agriculture, and the agricultural economy. • Adverse impacts to the viability of CSD and domestic uses. • Dewatering of wells.	Significant and unreasonable degraded water quality that adversely impacts drinking, irrigation, industrial, and environmental uses: • Drinking • Domestic uses (Swamp coolers, laundry) • Agriculture	Significant and unreasonable land subsidence that substantially interferes with surface land uses causing: • Damage to public and private infrastructure (e.g., roads and highways, pipelines, utilities, public buildings, residential and commercial structures). • Permanent loss of groundwater storage capacity.	Significant and unreasonable depletions of interconnected surface water that results in: • Adverse impacts to agricultural uses • Adverse impacts to riparian habitat
Minimum Threshold Considerations [4]	• Well depths • Historic recorded lows in monitoring wells • Conditions in spring of 2015	• Well depths • Historic recorded lows in monitoring wells • Conditions in spring of 2015	• Salinity MCL (Maximum Contaminant Level) for drinking water and agriculture • Arsenic MCL for drinking water • Conditions in spring of 2015	• Land subsidence rate and magnitude indicating in-elastic land subsidence at established monuments. • Conditions in spring of 2015	• Based on an amount of water contributed from surface water to groundwater.
Measurable Objective Considerations [5]	• Drought buffer • Operational flexibility buffer • Conditions prior to 2015	• Drought buffer • Operational flexibility buffer • Conditions prior to 2015	• Drought buffer • Operational flexibility buffer • Conditions prior to 2015	• To be determined	• To be determined
Planning Principles [6]	• All stakeholders, and other agencies/entities will cooperatively develop the GSP. • The planning process will be inclusive and transparent. • The GSP will use empirical data and quantitative objectives.		• The GSP will be considerate of the diverse needs of the basin's population. • The GSP will work towards sustaining economic activity in the region.		

Notes:

1. **Sustainability Goal** refers to the existence and implementation of one or more groundwater sustainability plans that achieve sustainable groundwater management by identifying and causing the implementation of measures targeted to ensure that the applicable basin is operated within its sustainable yield.
2. **Sustainability Indicator** refers to any of the effects caused by groundwater conditions occurring throughout the basin that, when significant and unreasonable, cause undesirable results.
3. **Undesirable Result** means one or more of the following effects caused by groundwater conditions occurring in the basin: (1) Chronic lowering of groundwater levels indicating a significant and unreasonable depletion of supply if continued over the planning and implementation horizon. (2) Significant and unreasonable reduction of groundwater storage. (3) Significant and unreasonable seawater intrusion. (4) Significant and unreasonable degraded water quality, including the migration of contaminant plumes that impair water supplies. (5) Significant and unreasonable land subsidence that substantially interferes with surface land uses. (6) Depletion of interconnected surface water that have significant and unreasonable adverse impacts on beneficial uses of the surface water.
4. **Minimum Threshold** refers to a numeric value for each sustainability indicator used to define undesirable results.
5. **Measurable Objective** refers to specific, quantifiable goals for the maintenance or improvement of specified groundwater conditions that have been included in an adopted Plan to achieve the sustainability goal for the basin within 20 years. Uses the same metric as defined by the minimum threshold for the same sustainability indicator.
6. **Planning Principles** describes "how" the planning process will be conducted and provide overall guidance.

Cuyama Basin Groundwater Sustainability Agency

Draft Undesirable Results Narrative

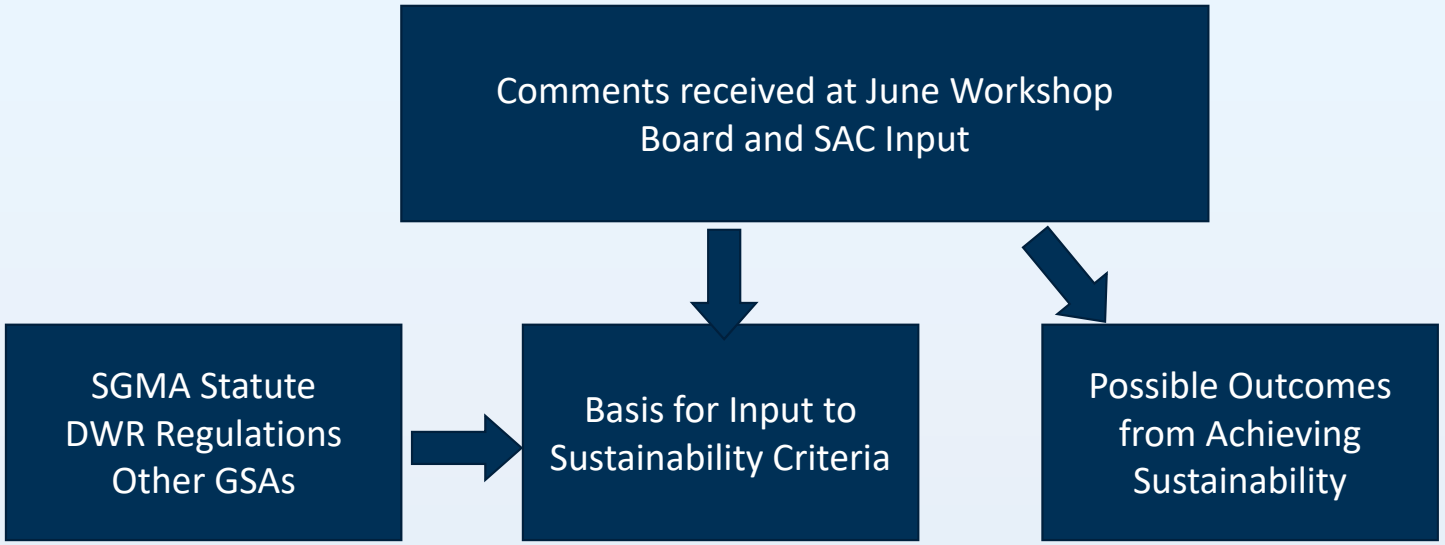
August 1, 2018

WOODARD &CURRAN

Sustainability Indicators in the Cuyama Basin

Sustainability Indicators	Lowering GW Levels	Reduction of Storage	Land Subsidence	Surface Water Depletion	Degraded Water Quality
Metrics Defined by SGMA	Groundwater elevation	Total volume	Rate and extent of subsidence	Volume or rate of depletion	Migration of plumes; constituent concentrations

Sources of Input for Development of Sustainability Criteria



WOODARD &CURRAN

Undesirable Results Narrative Document

- Draft GSP Section provided to SAC and Board for review as part of Board Packet on July 20th
- Undesirable Results Narrative describes:
  - Draft Undesirable Results Statements
  - Related Regulations and Best Management Practices
  - Undesirable Results Regulations
  - Sustainable Management Criteria Best Management Practices
- Comments are due on Friday, August 17

WOODARD &CURRAN

TO: Board of Directors
Agenda Item No. 8f

FROM: Charles Gardiner and Mary Currie, Catalyst Group

DATE: August 1, 2018

SUBJECT: Stakeholder Engagement Update

Issue

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

Recommended Motion

None – information only.

Discussion

Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan (GSP) outreach consultant the Catalyst Group's stakeholder engagement update is provided as Attachment 1 and the second newsletter is provided as Attachment 2.

Attachment 1

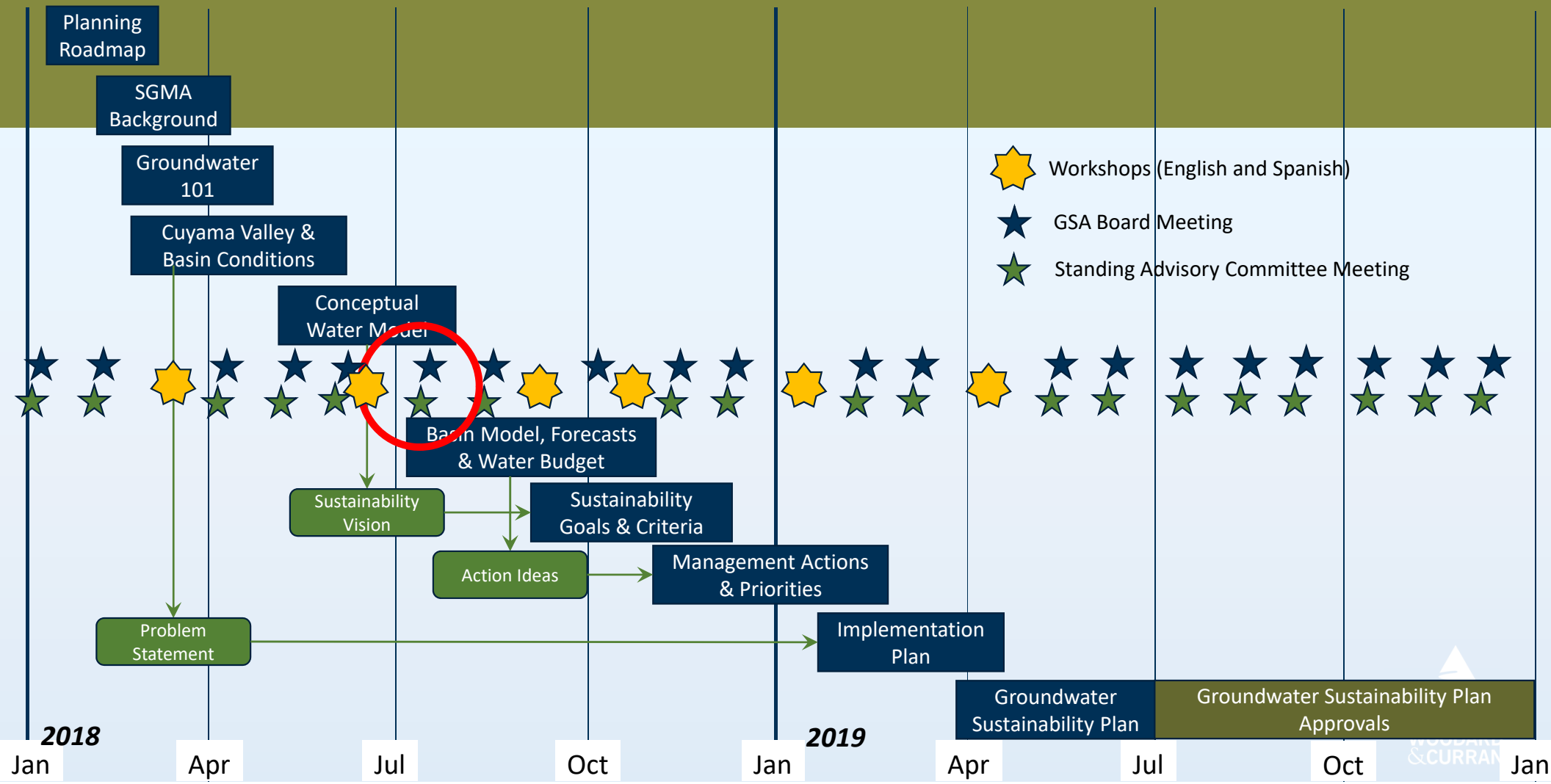
Cuyama Basin Groundwater Sustainability Agency

Groundwater Sustainability Plan Stakeholder Engagement Update

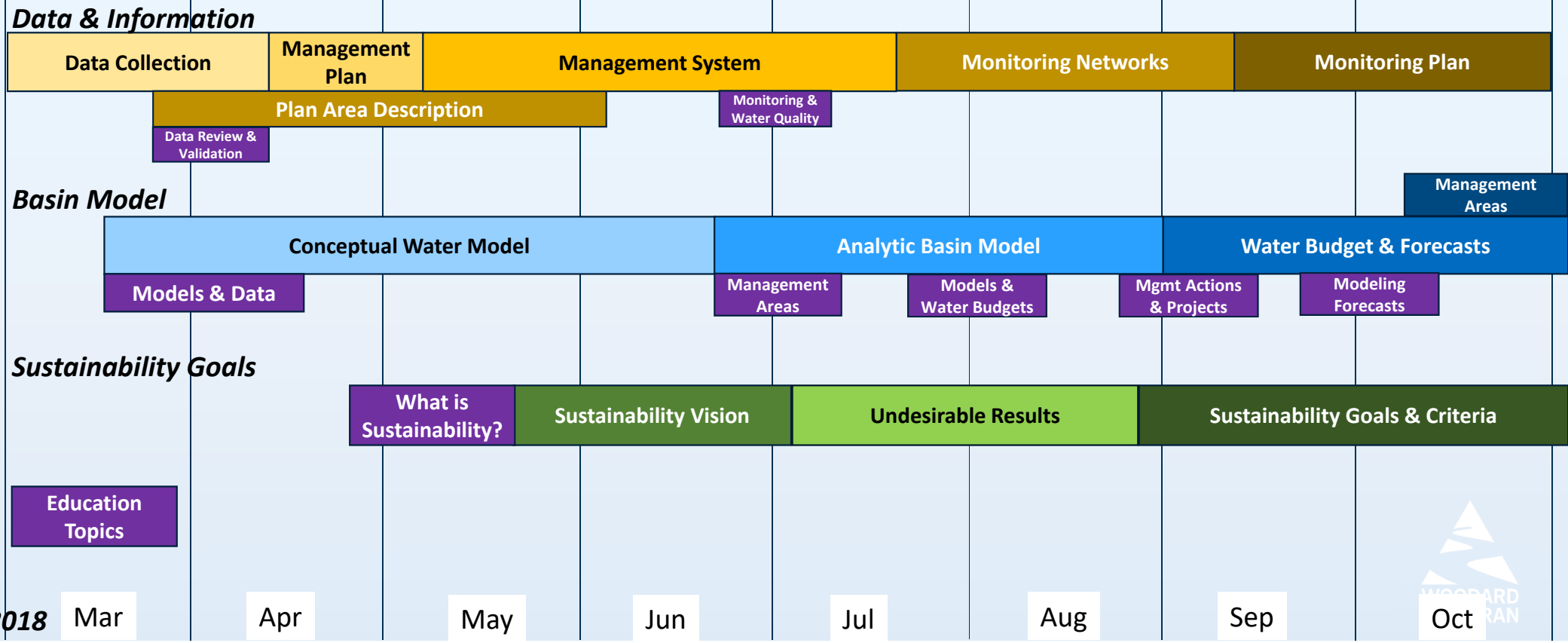
August 1, 2018

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Plan – Planning Roadmap



Cuyama Basin Groundwater Sustainability Plan – Discussion Topics



Outreach Activities

- Next Community Workshops, September 5, 6:30 to 8:30 pm at Cuyama Valley Recreation District
  - Email to GSP contact list and postcard to property owners
- Planned Community Workshops Topics include:
  - Initial Model Results – Historical Use
  - Assumptions for Current and Future Conditions
  - Conceptual Management Areas
  - Introduction to Management Actions and Projects
- CBGSA Newsletter, Edition 2, August 2018
  - Included in Cuyama Valley Recreation District Newsletter
  - Mailed to ~100 Post Office boxes in New Cuyama on or about August 1
  - Emailed to GSP contact list and posted on GSA website

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Agency

Cuyama Basin Groundwater Sustainability Newsletter Edition 2, August 2018

Groundwater Sustainability Plan for Cuyama Basin is Underway, Everyone is Encouraged to Participate

Groundwater is one of our most critical resources. It is a source for drinking water, it is used for irrigation to grow crops, and wildlife need it to survive. Groundwater is a little tricky because we can't see it. We know that groundwater supplies are less today than they were back in the 1970s. We know that both farming and populations centers across the state have increased over the last few decades, increasing groundwater use significantly.

In 2014, recognizing that groundwater supplies and the communities that depend on them were being affected by increased use, California enacted the **Sustainable Groundwater Management Act**, referred to as SGMA.

After SGMA was enacted, the California Department of Water Resources then developed a list of 21 "critically overdrafted" basins in California – and the Cuyama Basin is one. Critically overdrafted means that more water is being pumped from underground aquifers, where groundwater is stored, than is being replaced by rainfall and surface water recharge (water that percolates from the surface down into an aquifer). Groundwater levels have declined to the point that water users and natural resources are affected or threatened.

In 2017, the Cuyama Basin Groundwater Sustainability Agency (CBGSA) was formed. The CBGSA is responsible for developing a Groundwater Sustainability Plan (GSP) for the Cuyama Basin. The GSP must be completed by January 31, 2020.

The goal of the GSP is to identify management actions and projects that will bring groundwater use in the Cuyama Basin into balance by 2040. The GSP will be updated every five years through 2040 to ensure that progress is being made toward this goal.

Photo courtesy of Sunridge Nurseries

Decisions needed for the GSP development will be made by an eleven-member Board of Directors (Board) for the CBGSA. The Board established a Standing Advisory Committee (SAC) of community members to advise the Board. For a listing of Board and SAC members, visit www. cuyamabasin.org.

The Cuyama Basin is at a critical juncture where change in groundwater management is vital to the economic welfare and quality of life in the area. As a resident, business owner, or employee, your participation in the GSP development is important for the future of the Valley. We look forward to seeing you at the next community workshops (English and Spanish language) on September 5, 2018, 6:30 pm to 8:pm, Cuyama Valley Recreation District. For more information: www.cuyamabasin.org.

Jim Beck, Executive Director, CBGSA, jbeck@hgcpm.com

Progress Made with GSP

The Plan Area Description presents the water resource experts understanding of the lay of the land in the Cuyama Basin.

The Hydrogeologic Conceptual Model provides the context to develop water budget, the numerical model, and the monitoring network.

Considerable progress has been made – both on the technical aspects and community outreach. The water resource technical experts at the firm of Woodward & Curran have completed the **Plan Area Description** section of the GSP and are nearing completion of the **Hydrogeologic Conceptual Model** portion of the **Basin Settings** section. As sections of the GSP are completed, they will be posted online at http://cuyamabasin.org/resources.html

The Plan Area Description is a detailed description of the Cuyama Basin, including major streams and creeks, geologic faults and formations, soil types, groundwater monitoring wells, groundwater production wells, precipitation data, surface water data, land use designations, Cuyama River flows, and groundwater level trends. The Plan Area also describes existing surface water and groundwater monitoring programs, existing water management programs, and land use plans in the Plan Area.

Discussion at the Spanish Language workshop on June 6.

The Hydrogeologic Conceptual Model (HCM) is a simplified, descriptive, conceptual representation of the Cuyama Basin's physical characteristics. The HCM provides the geologic information needed to understand how water moves through the Cuyama Basin. It describes the geology of the area, the water quality of the main aquifers, the topography, surface water, and current recharge options.

The HCM section is part of the **Basin Settings** section of a GSP which has three subsections:

1. Hydrological Conceptual Model
2. Groundwater Conditions. This section describes and presents a) groundwater trends, levels, hydrographs and level contour maps, b) estimates changes in groundwater storage, c) identifies groundwater quality issues, d) addresses subsidence and surface water interconnection.
3. Water Budget: This subsection includes a) the data used in water budget development, b) discusses how the budget was calculated, c) provides water budget estimates for historical conditions, current conditions and projected conditions.

The Groundwater Conditions and the Water Budget sections are under development now and will be discussed at future meetings and posted online when they are available.

Frequently Asked Questions

1. What is a Groundwater Sustainability Plan (GSP)?
The GSP is a "roadmap" for how the Cuyama Basin will achieve long-term groundwater sustainability. The GSP sets long-term goals and targets for the groundwater basin and begins to measure progress towards those goals. The GSP will also identify projects and management actions that will be needed to achieve or maintain sustainable groundwater conditions in the Cuyama Basin by 2040.

2. What is a Groundwater Monitoring Plan?
The monitoring of groundwater in key locations in the Cuyama Basin will be an essential tool for achieving long-term groundwater sustainability. A network of monitoring wells will be identified to track what is happening with groundwater levels through to 2040.

3. What is a Water Budget?
A water budget estimates all of the water movement and uses in the Cuyama Valley, just as a household budget looks at the money coming in and the money being spent. The water budget includes information about rainfall, surface water flows, groundwater pumping and recharge, and water use for crops and human consumption. The water budget is used to identify and evaluate what actions are needed to get the water budget back in balance by 2040.

Message from the Standing Advisory Committee (SAC)

One of the key goals of the CBGSA is to encourage the active involvement of diverse social, cultural, and economic elements of the population within the basin during the development and implementation of the GSP. The GSP stakeholder outreach process is aimed at inviting and encouraging input from local farmers, ranchers, businesses, and residents.

At the June 6 workshops, the primary topic was about sustainability and what it means for the Cuyama Valley. The discussion was interactive, as attendees were asked to share their vision for the future of the Cuyama Valley. And what sustainability means to them**.** There was considerable agreement among the attendees that the future has to be different.

When asked to discuss what is important to the future of the Cuyama Valley, attendees generally shared agreement in these areas:

- ✓ Balanced water use is critical. We need to stop the overdraft.
- ✓ Water is linked to jobs and a healthy environment.
- ✓ Improved water quality is important.
- ✓ Farmers need to use water efficiently. Farming practices must adjust to bring the water use into balance.

Not all of the concerns expressed about the future of water in the Cuyama Basin will be solved by the GSP. It was important that community members shared their vision for the future as this will aid the technical team in identifying groundwater management actions and projects that include community perspectives.

I invite you to join us at a future SAC meeting and the September 5 workshops (English and Spanish), 6:30 to 8:30 pm at the Cuyama Valley Recreation District. For a schedule of upcoming Board, SAC, and workshop topics, visit www.cuyamabasin.org/resources.

I encourage you to add your voice to this important planning for the future of the Cuyama.

Robbie Jaffe, Standing Advisory Committee Chair

Interactive discussion about groundwater sustainability at the English Language workshop on June 6.

SGMA Sustainable Groundwater Management 101

SGMA defines **sustainable groundwater management** as the management and use of groundwater in a

manner that can be maintained without causing undesirable results. The GSP must describe how the Valley will achieve sustainable groundwater management by 2040. The CBGSA Board, SAC, and landowners, farmers, ranchers, and residents will work together over the next few months to assist the technical experts in developing sustainable criteria for managing groundwater in the Cuyama Basin.

The sustainable criteria include the following:

Identifying Undesirable Results: SGMA defines five indicators of sustainability applicable to the Cuyama Basin:

1. **Land subsidence**
2. **Further lowering of groundwater levels**
3. **Reduction of groundwater storage**
4. **Surface water depletions**
5. **Water quality degradation**

Undesirable results occur when conditions related to any of the five sustainability indicators become significant and unreasonable. Undesirable results are defined for each sustainability indicator.

Setting Minimum Thresholds: The lowest acceptable level for each sustainability indicator without significant and unreasonable undesirable results for the Valley.

Setting Measurable Objectives: A management target that provides a usable buffer above the minimum threshold for droughts and other variables in the Valley. Sustainable conditions within a basin are achieved when the CBGSA meets the sustainability criteria and demonstrates that the basin is being operated within its *sustainable yield*. Sustainable yield can only be reached if the basin is not experiencing undesirable results. Undesirable results must be eliminated through the implementation of projects and management actions.

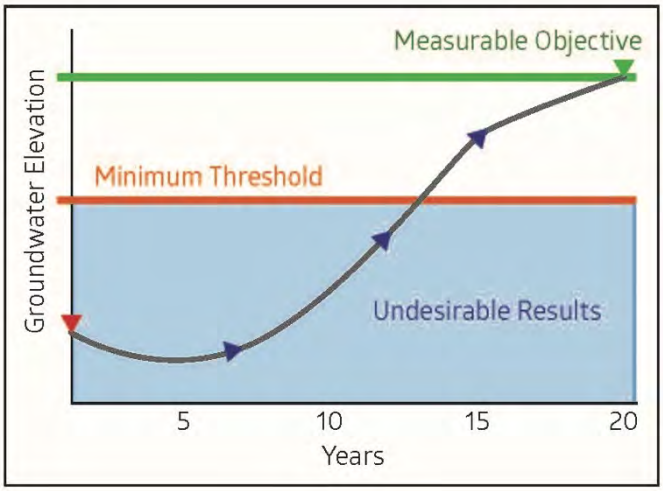


Figure 1 Above: Hypothetical example shows how the Minimum Threshold, Measurable Objective, Undesirable Results relate to one another over a 20 years during which the GSP is targeted to bring groundwater into balance in a given region.

Get Involved, Help Shape Your Future

1. Visit www.cuyamabasin.org for more information about GSP developments and reports
2. Attend a monthly meeting of the Board of Directors, 1st Wednesday, 4 p.m.
3. Attend a montly meeting of the Standing Advisory Committee, Thursday preceding the first Wednesday of the month at 4 p.m.
4. **Attend the next community workshops (English and Spanish language) are September 5, 6:30 to 8:30 pm, Cuyama Valley Recreation District, 4885 Primero St, New Cuyama.**
5. **Send an Email**: tblakslee@hgcpm.com or **write a letter**: Cuyama Basin GSA, 4900 California Ave, Tower B, 2nd Floor, Bakersfield, CA 93309 or **call** during normal business hours, Monday - Friday, 9 am to 4 pm: (661) 477-3385

Attend an Upcoming Meeting

Board of Directors: **August 1, September 5, October 3**
Standing Advisory Committee: **August 30, September 27, October 25**
The Board of Directors and Standing Advisory Committee meetings are held at the Cuyama Family Resource Center, 4689 CA-166, New Cuyama. Meetings are open to the public and public comments are welcomed. Agendas, minutes, and meeting materials are available 72 hours before the meetings at **www.cuyamabasin.org.**

TO: Board of Directors
Agenda Item No. 9a

FROM: Jim Beck, Executive Director

DATE: August 1, 2018

SUBJECT: Financial Management Overview

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

Recommended Motion
None – information only.

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

Cuyama Basin Groundwater Sustainability Agency

Financial Report

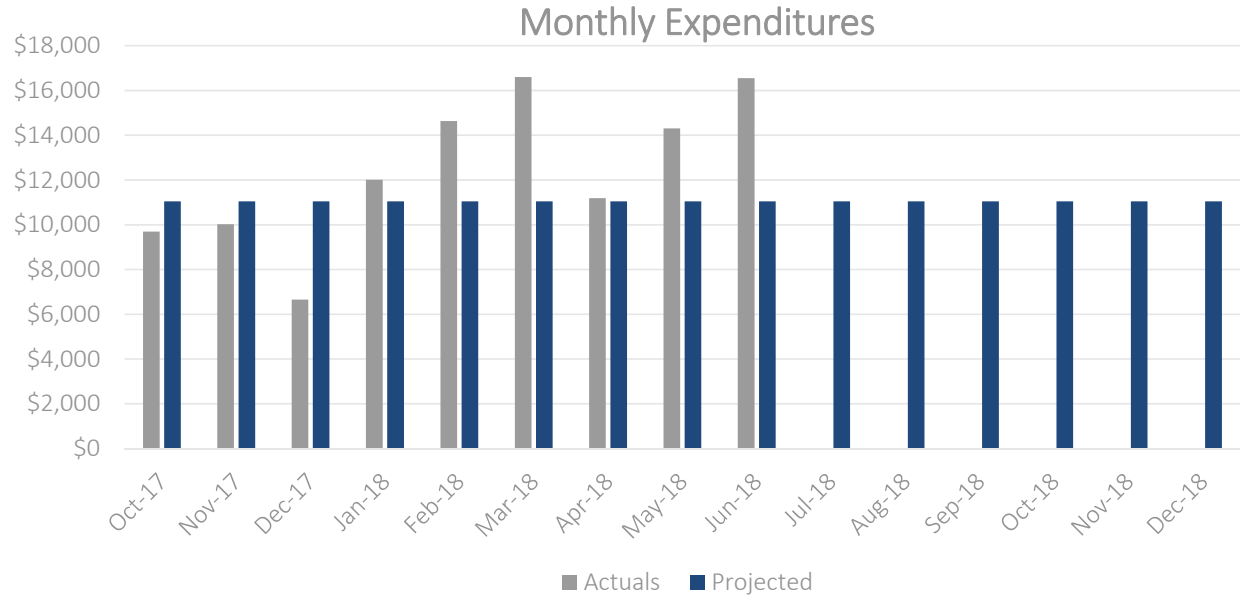
August 1, 2018

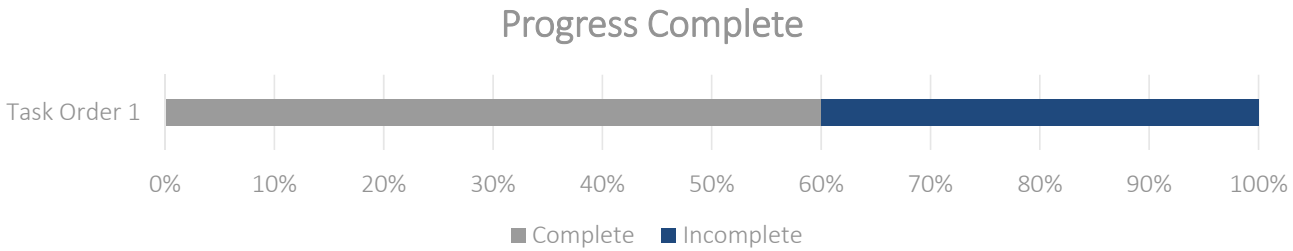
CBGSA OUTSTANDING INVOICES

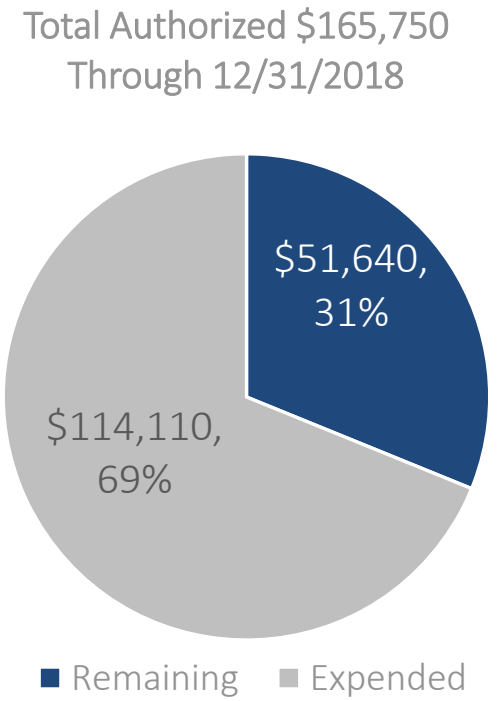
Task	Invoiced Through	Cumulative Total
Legal Counsel	6/19/2018	$18,598.06
Executive Director	6/30/2018	$80,730.24
GSP Development	6/29/2018	$574,986.76
TOTAL		$674,315.06

HALLMARK GROUP Capital Program Management

Executive Director Task Order 1

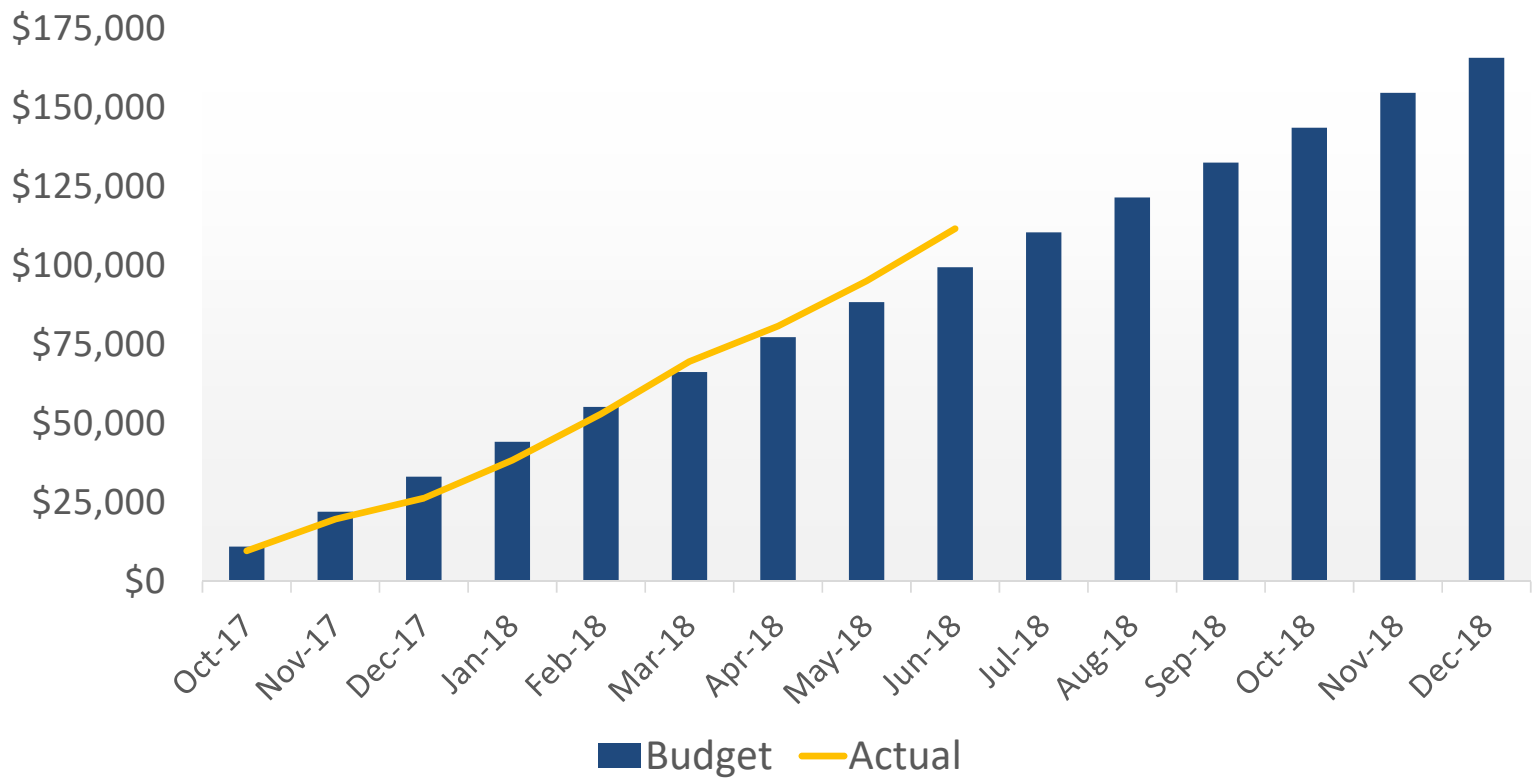




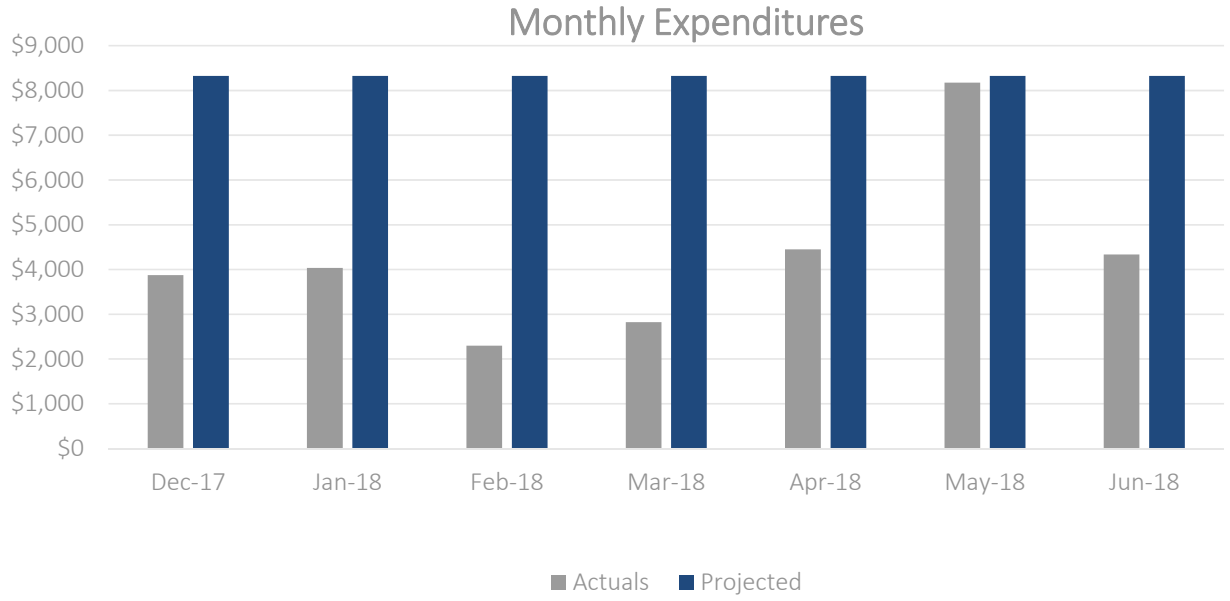


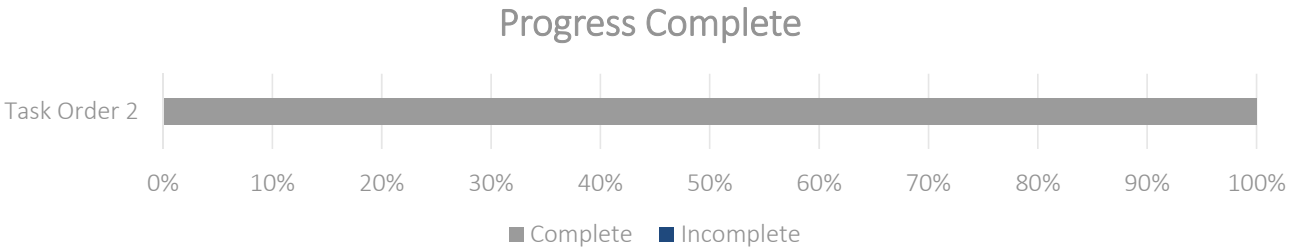
HALLMARK GROUP Capital Program Management

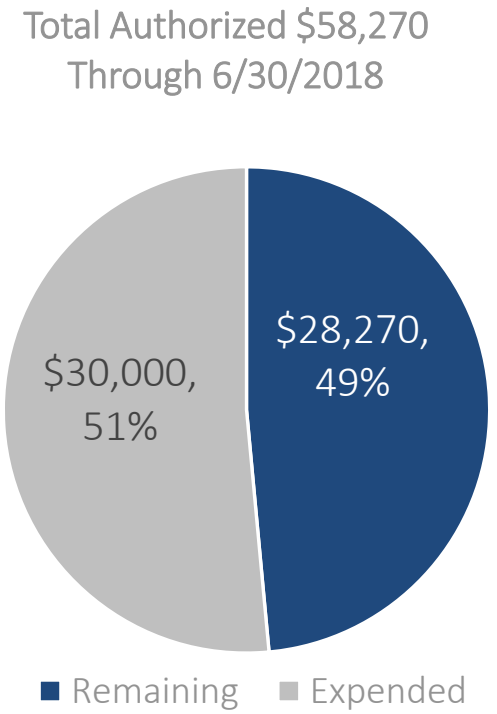
Task Order No. 1: Budget to Actual



Executive Director Task Order 2

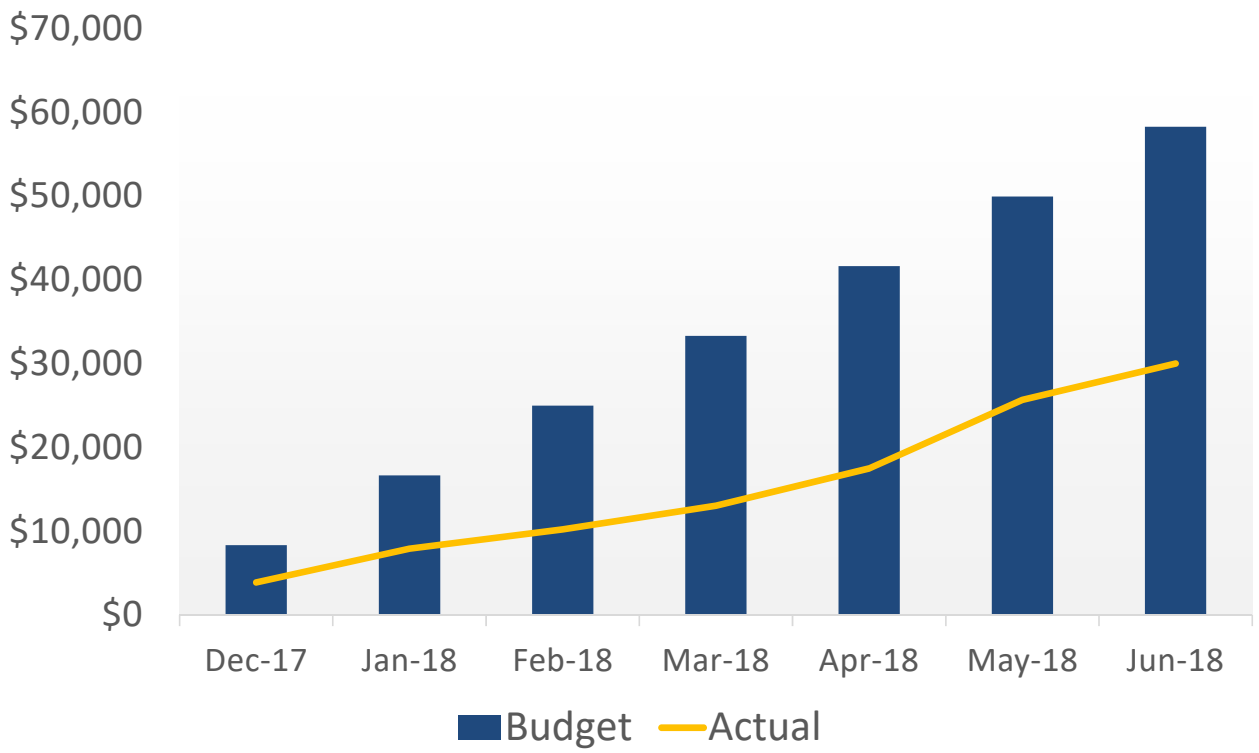




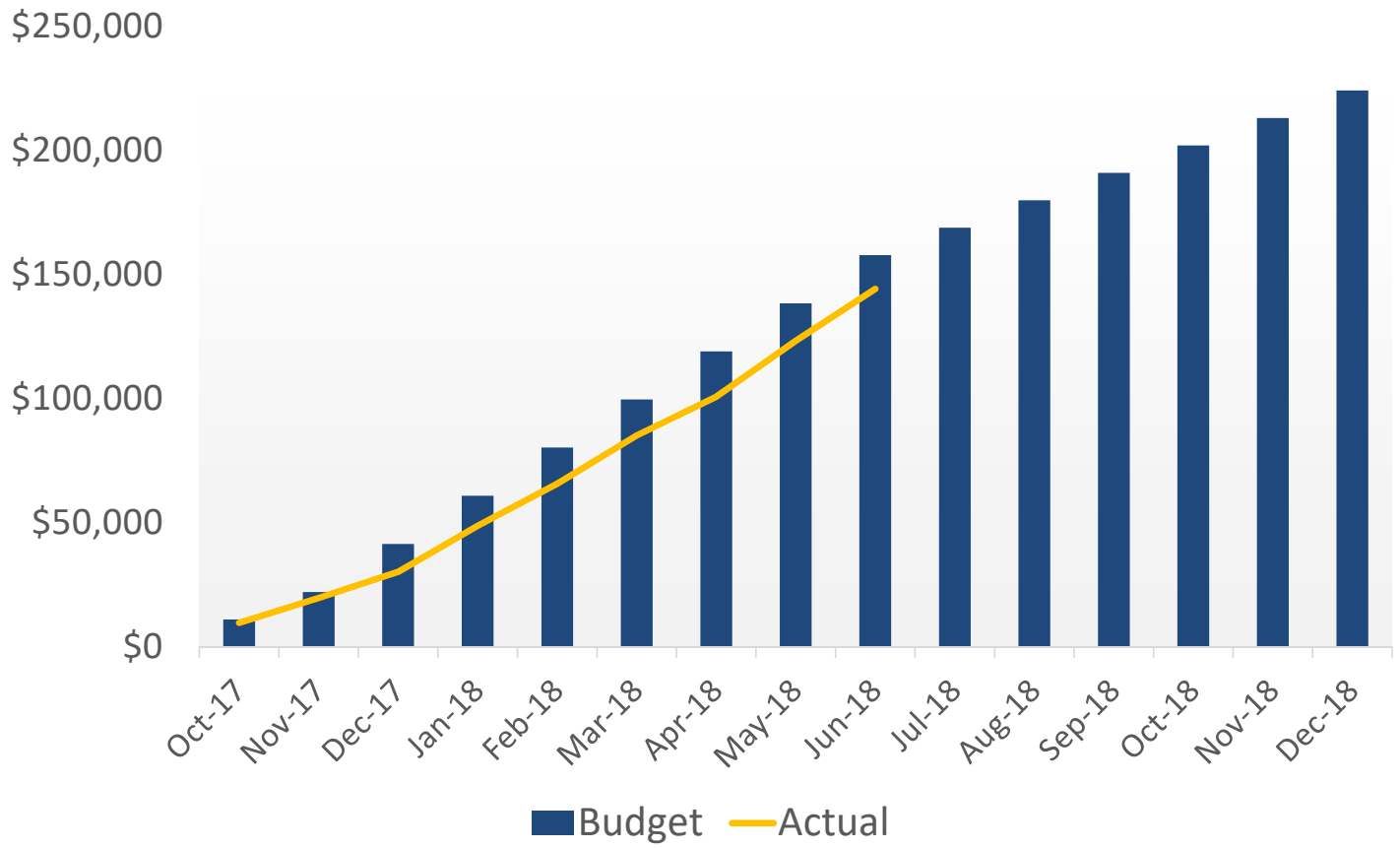


HALLMARK GROUP Capital Program Management

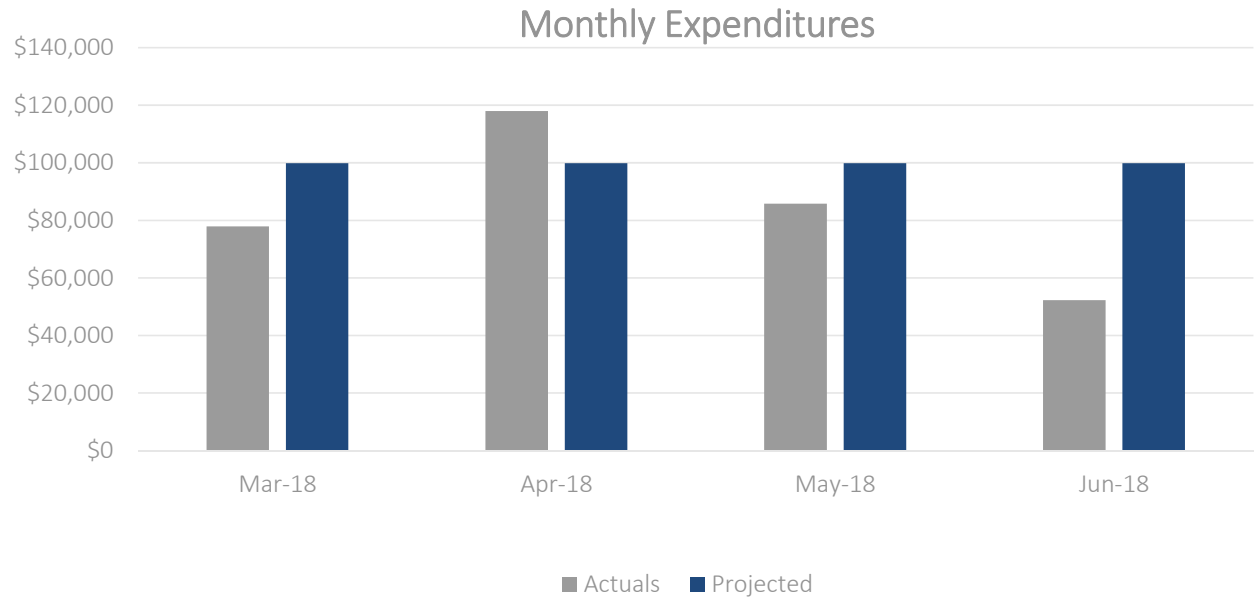
Task Order No. 2: Budget to Actual

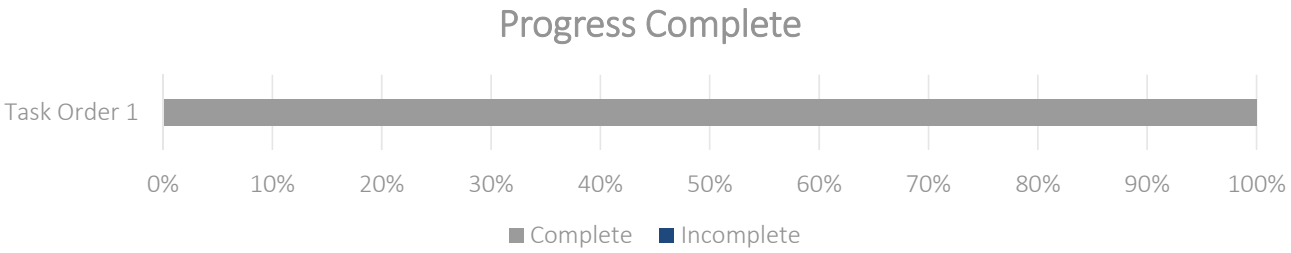


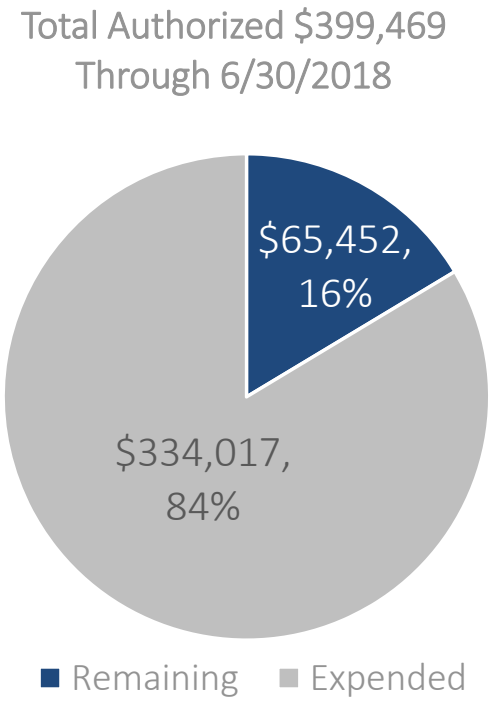
Task Order Nos. 1 & 2: Budget to Actual



GSP Development Task Order 2

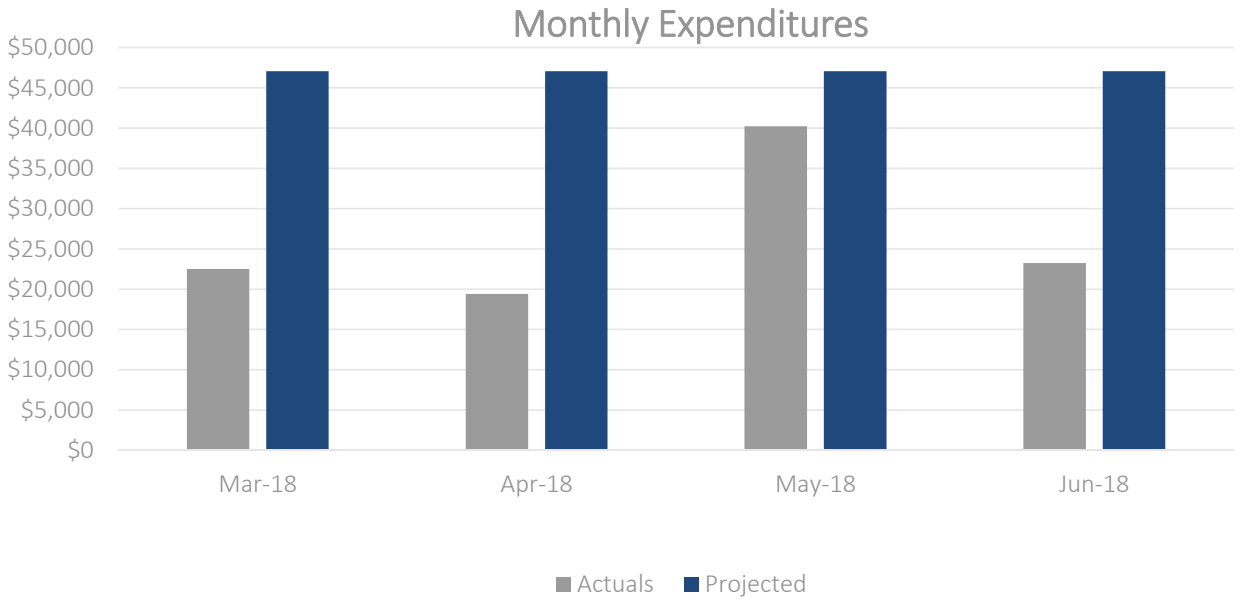


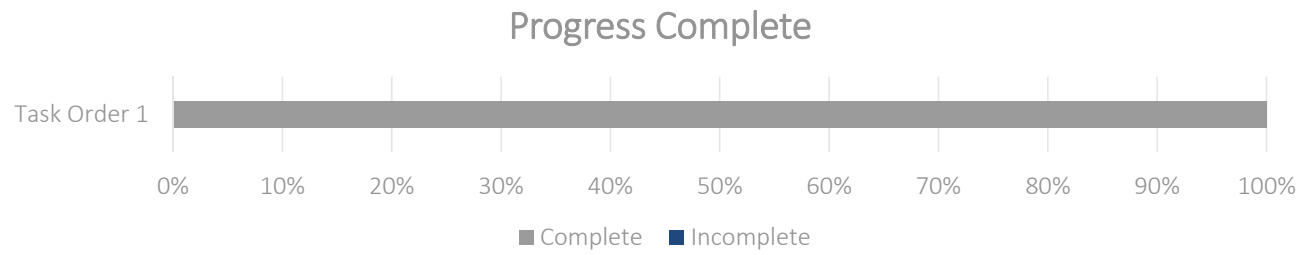


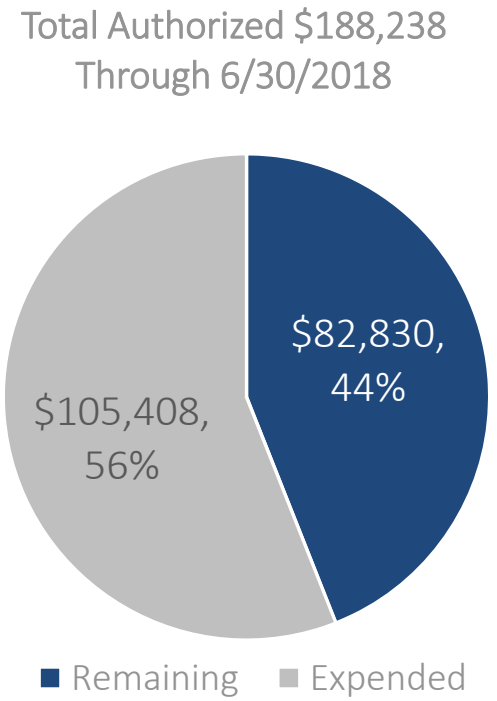


HALLMARK GROUP Capital Program Management

GSP Development Task Order 3







HALLMARK GROUP Capital Program Management

TO: Board of Directors
Agenda Item No. 9b

FROM: Jim Beck, Executive Director

DATE: August 1, 2018

SUBJECT: Financial Report

Issue
Financial Report

Recommended Motion
None – information only.

Discussion
The Cuyama Basin Groundwater Sustainability Agency's fiscal year end financial report is provided as Attachment 1.

The report includes:

- Statement of Financial Position, *as of June 30, 2018*
- Receipts and Disbursements, *as of June 30, 2018*
- A/R Aging Summary, *as of June 30, 2018*
- A/P Aging Summary, *as of June 30, 2018*
- Statement of Operations with Budget Variance, *July 2017 through June 2018*
- 2017/2018 Operational Budget, *July 2017 through June 2018*

CUYAMA BASIN GSA
Statement of Financial Position
As of June 30, 2018

	Jun 30, 18
ASSETS	
Current Assets	
Checking/Savings	
10000 · Chase - General Checking	22,469.60
Total Checking/Savings	22,469.60
Accounts Receivable	
11000 · Accounts Receivable	545,433.89
Total Accounts Receivable	545,433.89
Total Current Assets	567,903.49
TOTAL ASSETS	**567,903.49**
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
20000 · Accounts Payable	674,315.06
Total Accounts Payable	674,315.06
Total Current Liabilities	674,315.06
Total Liabilities	674,315.06
Equity	
Net Income	-106,411.57
Total Equity	-106,411.57
TOTAL LIABILITIES & EQUITY	**567,903.49**

CUYAMA BASIN GSA
Receipts and Disbursements
As of June 30, 2018

Type	Date	Num	Name	Debit	Credit
10000 · Chase - General Checking					
Payment	04/30/2018	1029	Cuyama Basin Water District	422,268.02	
Check	05/11/2018	ach	Deluxe Checks		184.02
Bill Pmt -Check	05/16/2018	1001	Woodard & Curran		290,583.20
Bill Pmt -Check	05/16/2018	1002	RMC, a Woodard & Curran Co.		39,151.25
Bill Pmt -Check	05/16/2018	1003	Walter Mortensen Insurance		9,039.00
Bill Pmt -Check	05/16/2018	1004	Klein, DeNatale, Goldner		17,577.33
Bill Pmt -Check	05/16/2018	1005	HGCPM, Inc.		63,380.20
Payment	06/07/2018	1001812579	County of Ventura	20,116.58	
Total 10000 · Chase - General Checking				442,384.60	419,915.00
TOTAL				**442,384.60**	**419,915.00**

CUYAMA BASIN GSA
A/R Aging Summary
As of June 30, 2018

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
County of Kern	18,451.08	0.00	0.00	20,116.58	0.00	38,567.66
County of San Luis Obispo	18,451.08	0.00	0.00	20,116.58	0.00	38,567.66
County of Ventura	18,451.08	0.00	0.00	0.00	0.00	18,451.08
Cuyama Basin Water District	387,307.44	0.00	0.00	0.00	0.00	387,307.44
Cuyama Community Services District	2,982.30	0.00	0.00	3,251.50	0.00	6,233.80
Santa Barbara County Water Agency	0.00	56,306.25	0.00	0.00	0.00	56,306.25
TOTAL	**445,642.98**	**56,306.25**	**0.00**	**43,484.66**	**0.00**	**545,433.89**

CUYAMA BASIN GSA
A/P Aging Summary
As of June 30, 2018

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
HGCPM, Inc.	20,884.85	22,476.34	15,644.38	19,424.67	2,300.00	80,730.24
Klein, DeNatale, Goldner	2,591.85	4,282.85	2,731.85	2,376.00	6,615.51	18,598.06
Woodard & Curran	180,525.65	126,056.64	137,396.11	131,008.36	0.00	574,986.76
TOTAL	**204,002.35**	**152,815.83**	**155,772.34**	**152,809.03**	**8,915.51**	**674,315.06**

CUYAMA BASIN GSA
Statement of Operations with Budget Variance
July 2017 through June 2018

	Jul '17 - Jun 18	Budget	$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
43400 · Direct Public Funds				
43420 · Participant Assessments	987,818.49	1,005,094.00	-17,275.51	98.3%
Total 43400 · Direct Public Funds	987,818.49	1,005,094.00	-17,275.51	98.3%
Total Income	987,818.49	1,005,094.00	-17,275.51	98.3%
Cost of Goods Sold				
50000 · Program Expenses				
51000 · Cat 1 - Technical Assistance				
51100 · Direct Project Admin	16,563.00	11,443.00	5,120.00	144.7%
51300 · Stakeholder Engagement	0.00	17,406.00	-17,406.00	0.0%
51400 · Technical Assistance	107,296.35	133,182.00	-25,885.65	80.6%
Total 51000 · Cat 1 - Technical Assistance	123,859.35	162,031.00	-38,171.65	76.4%
52000 · Cat 2 - GSP Development				
52100 · Direct Project Admin	28,681.00	25,382.00	3,299.00	113.0%
52200 · Plan Development	604,096.05	474,888.00	129,208.05	127.2%
52300 · Stakeholder Engagement	108,933.56	70,265.00	38,668.56	155.0%
Total 52000 · Cat 2 - GSP Development	741,710.61	570,535.00	171,175.61	130.0%
Total 50000 · Program Expenses	865,569.96	732,566.00	133,003.96	118.2%
Total COGS	865,569.96	732,566.00	133,003.96	118.2%
Gross Profit	122,248.53	272,528.00	-150,279.47	44.9%
Expense				
60000 · Administration and Operation				
63000 · Staff and Administration of GSA				
63100 · Executive Director - TO1				
63120 · GSA BOD Meetings	71,187.50	39,150.00	32,037.50	181.8%
63140 · Consult Mgmt and GSP Devel	28,037.50	32,850.00	-4,812.50	85.4%
63160 · Financial Information Coor	7,237.50	7,650.00	-412.50	94.6%
63180 · CBGSA Outreach	2,700.00	19,800.00	-17,100.00	13.6%
Total 63100 · Executive Director - TO1	109,162.50	99,450.00	9,712.50	109.8%
63500 · Executive Director - TO2				
63520 · Budget Devel and Admin	8,450.00	13,400.00	-4,950.00	63.1%
63540 · Financial Management	15,362.50	28,400.00	-13,037.50	54.1%
63560 · Outreach Facilitation	6,187.50	13,650.00	-7,462.50	45.3%
63580 · Travel and Direct Costs	0.00	2,820.00	-2,820.00	0.0%
Total 63500 · Executive Director - TO2	30,000.00	58,270.00	-28,270.00	51.5%
Total 63000 · Staff and Administration of GSA	139,162.50	157,720.00	-18,557.50	88.2%
65000 · Administrative Overhead				
65050 · Legal	36,175.39	30,000.00	6,175.39	120.6%
65060 · Grant Proposals	39,151.25	40,000.00	-848.75	97.9%
65070 · General Liability Insurance	11,490.00	12,108.00	-618.00	94.9%
65150 · Website Updates	0.00	5,700.00	-5,700.00	0.0%
65200 · Travel, Conferences, Trainings	796.08	5,000.00	-4,203.92	15.9%
65400 · Telephone and Telecommunication	1,575.30	0.00	1,575.30	100.0%
65500 · Other Admin Expense	309.58	2,000.00	-1,690.42	15.5%
65900 · Contingency	0.00	20,000.00	-20,000.00	0.0%
Total 65000 · Administrative Overhead	89,497.60	114,808.00	-25,310.40	78.0%
Total 60000 · Administration and Operation	228,660.10	272,528.00	-43,867.90	83.9%
Total Expense	228,660.10	272,528.00	-43,867.90	83.9%
Net Ordinary Income	-106,411.57	0.00	-106,411.57	100.0%
Net Income	**-106,411.57**	**0.00**	**-106,411.57**	**100.0%**

CUYAMA BASIN GSA
2017/2018 Operational Budget
July 2017 through June 2018

	Jul '17 - Jun 18
Ordinary Income/Expense	
Income	
43400 · Direct Public Funds	
43420 · Participant Assessments	1,005,094.00
Total 43400 · Direct Public Funds	1,005,094.00
Total Income	1,005,094.00
Cost of Goods Sold	
50000 · Program Expenses	
51000 · Cat 1 - Technical Assistance	
51100 · Direct Project Admin	11,443.00
51300 · Stakeholder Engagement	17,406.00
51400 · Technical Assistance	133,182.00
Total 51000 · Cat 1 - Technical Assistance	162,031.00
52000 · Cat 2 - GSP Development	
52100 · Direct Project Admin	25,382.00
52200 · Plan Development	474,888.00
52300 · Stakeholder Engagement	70,265.00
Total 52000 · Cat 2 - GSP Development	570,535.00
Total 50000 · Program Expenses	732,566.00
Total COGS	732,566.00
Gross Profit	272,528.00
Expense	
60000 · Administration and Operation	
63000 · Staff and Administration of GSA	
63100 · Executive Director - TO1	
63120 · GSA BOD Meetings	39,150.00
63140 · Consult Mgmt and GSP Devel	32,850.00
63160 · Financial Information Coor	7,650.00
63180 · CBGSA Outreach	19,800.00
Total 63100 · Executive Director - TO1	99,450.00
63500 · Executive Director - TO2	
63520 · Budget Devel and Admin	13,400.00
63540 · Financial Management	28,400.00
63560 · Outreach Facilitation	13,650.00
63580 · Travel and Direct Costs	2,820.00
Total 63500 · Executive Director - TO2	58,270.00
Total 63000 · Staff and Administration of GSA	157,720.00
65000 · Administrative Overhead	
65050 · Legal	30,000.00
65060 · Grant Proposals	40,000.00
65070 · General Liability Insurance	12,108.00
65150 · Website Updates	5,700.00
65200 · Travel, Conferences, Trainings	5,000.00
65500 · Other Admin Expense	2,000.00
65900 · Contingency	20,000.00
Total 65000 · Administrative Overhead	114,808.00
Total 60000 · Administration and Operation	272,528.00
Total Expense	272,528.00
Net Ordinary Income	0.00
Net Income	**0.00**

TO: Board of Directors
Agenda Item No. 9c

FROM: Jim Beck, Executive Director

DATE: August 1, 2018

SUBJECT: Payment of Bills

Issue
Consider approving the payment of bills for June2018.

Recommended Motion
Approve payment of the bills through the month of June 2018 in the amount of $204,002.35.

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

HALLMARK GROUP Capital Program Management

1901 Royal Oaks Drive
Suite 200
Sacramento, CA 95815

916 923.1500
hgcpm.com

INVOICE

To: Cuyama Basin GSA
c/o Jim Beck
4900 California Avenue, Ste B
Bakersfield, CA 93309

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

Invoice No.: 2018-CBWD-TO1-06A
Task Order: HG-001
Date: July 17, 2018

For professional services rendered for the month of June 2018

Task Order	Sub task	Task Description	Billing Category	Month Ending	Hours	Rate	Amount
HG-001	1	GSA Board of Directors and Advisory Committee Meetings	Executive Director	6/30/2018	13.25	$ 250.00	$ 3,312.50
			Project Coordinator/Admin	6/30/2018	57.00	$ 100.00	$ 5,700.00
						Total Task 1 Labor	$ 9,012.50
HG-001	2	Consultant Management and GSP Development	Executive Director	6/30/2018	4.00	$ 250.00	$ 1,000.00
			Project Coordinator/Admin	6/30/2018	20.25	$ 100.00	$ 2,025.00
						Total Task 2 Labor	$ 3,025.00
HG-001	3	Financial Information Coordination	Executive Director	6/30/2018	5.25	$ 250.00	$ 1,312.50
			Project Controls	6/30/2018	0.00	$ 200.00	$ -
			Project Coordinator/Admin	6/30/2018	16.00	$ 100.00	$ 1,600.00
						Total Task 3 Labor	$ 2,912.50
HG-001	4	CBGSA Outreach	Executive Director	6/30/2018	5.25	$ 250.00	$ 1,312.50
			Project Coordinator/Admin	6/30/2018	0.00	$ 100.00	$ -
						Total Task 4 Labor	$ 1,312.50
						Total Labor	$ 16,262.50
		Travel					$ 132.68
						SubTotal Travel	$ 132.68
		Other Direct Costs	Conference Calls - June 2018				$ 144.92
							$ -
			ODC Mark Up			5%	$ 7.25
						SubTotal Other Direct Costs	$ 152.17
						Total Travel & Other Direct Costs	$ 284.85
						TOTAL AMOUNT DUE FOR THIS INVOICE	$ 16,547.35

HALLMARK GROUP Capital Program Management

INVOICE

1901 Royal Oaks Drive
Suite 200
Sacramento, CA 95815

916 923.1500
hgcpm.com

To: Cuyama Basin GSA
c/o Jim Beck
4900 California Avenue, Ste B
Bakersfield, CA 93309

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

Invoice No.: 2018-CBWD-TO1-06A
Task Order: HG-001
Date: July 17, 2018

For professional services rendered for the month of June 2018

HG-001	Original Totals	Amendment(s)	Total Committed	Previously Billed	Current Billing	Remaining Balance
Task 1	$ 63,000.00	$ -	$ 63,000.00	$ 67,202.79	$ 9,012.50	$ (13,215.29)
Task 2	$ 54,750.00	$ -	$ 54,750.00	$ 19,281.06	$ 3,025.00	$ 32,443.94
Task 3	$ 12,750.00	$ -	$ 12,750.00	$ 4,325.00	$ 2,912.50	$ 5,512.50
Task 4	$ 31,500.00	$ -	$ 31,500.00	$ 1,716.86	$ 1,312.50	$ 28,470.64
Travel & ODCs	$ 3,750.00	$ -	$ 3,750.00	$ 2,586.36	$ 284.85	$ 878.80
Insurance	$ -	$ 2,451.00	$ 2,451.00	$ 2,451.00	$ -	$ -
Total	$ 165,750.00	$ 2,451.00	$ 168,201.00	$ 97,563.08	$ 16,547.35	$ 54,090.58

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

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

J. Beck

Task 1: GSA Board of Directors and Advisory Committee Meetings

- Prepared for and attended monthly Cuyama Basin Groundwater Sustainability Agency (CBGSA) Standing Advisory Committee (SAC) and Board of Directors (BOD) meeting.
- Assisted in the development and review of the SAC and Board agendas.
- Reviewed CBGSA BOD Meeting Agenda with D. Yurosek, R. Jaffe, B. Kelly, T. Blakslee, and M. Ballard.

Task 2: Consultant Management and GSP Development

- Met with CBGSA Management Team on a weekly basis.
- Reviewed Hydrogeologic Conceptual Model.
- Reviewed Ventura agreement for parcel information and data release form.
- Drafted email regarding Technical Forum Meeting items.

Task 3: Financial Information Coordination

- Reviewed documents for the DWR grant requirement.
- Reviewed expanded financial report.
- Reviewed second assessment.
- Prepared for and attended Kern County Board of Supervisors meeting on CBGSA assessment.
- Prepared spreadsheet for Santa Barbara County grant reimbursement.

Task 4: CBGSA Outreach

- Reviewed public workshop logistics plan with CBGSA Management Team.
- Prepared for and attended the public workshop on June 6, 2018.
- Reviewed and discussed outreach activity with CBGSA Management Team.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

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

T. Blakslee

Task 1: GSA Board of Directors and Advisory Committee Meetings

- Prepared Board documents for the Cuyama Basin Groundwater Sustainability Agency (CBGSA) Standing Advisory Committee (SAC) and Board of Directors meetings.
- Prepared SAC and Board minutes.
- Developed SAC and Board agendas.
- Prepared SAC, Board and public meeting packets.
- Attended/facilitated SAC and Board meetings.
- Updated GSP program schedule.
- Discussed costs and legality of providing printed copies at Board and SAC meetings.

Task 2: Consultant Management and GSP Development

- Coordinated and facilitated weekly CBGSA Management Team meeting.
- Develop agendas and action logs for weekly CBGSA Management Team meeting.
- Reviewed and distributed Description of Plan Area to commentators.
- Reviewed and distributed Hydrogeologic Conceptual Model to commentators.
- Distribute Santa Barbara grant funds for legal review.
- Facilitated comments received on the Description of Plan Area.
- Drafted Grantee Resolution.

Task 3: Financial Information Coordination

- Researched various financial reports for Cuyama.
- Drafted and distributed Second assessment.
- Processed Santa Barbara invoice backup and billing.
- Coordinated a form 590 and adding Santa Barbara County Water Agency as an additional ensured and certificate holder to the insurance policy.
- Corresponded Santa Barbara purchase order with legal.

Task 4: CBGSA Outreach

- Nothing to report.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

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

M. Ballard

Task 1: GSA Board of Directors and Advisory Committee Meetings

- Prepared Board documents for the Cuyama Basin Groundwater Sustainability Agency (CBGSA) Standing Advisory Committee (SAC) and Board of Directors meeting.
- Prepared SAC and Board packets.
- Attended SAC and Board meetings and recorded minutes.
- Reviewed CBGSA SAC and Board meeting agendas with D. Yurosek, R. Jaffe, B. Kelly, T. Blakslee, and J. Beck.

Task 2: Consultant Management and GSP Development

- Met with CBGSA Management Team on a June 8, 2018.
- Coordinated signature pages for Task Orders 4 & 5 and Task Order Amendment from Derek Y.
- Distributed second assessment invoices to Kern County, CBWD, CCSB, San Luis Obispo, Ventura, and Santa Barbara.

Task 3: Financial Information Coordination

- Edited qualifying charge codes for Santa Barbara County Water Agency grant reimbursement.

Task 4: CBGSA Outreach

- Nothing to report.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

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

- **J. Harris**

Task 3: Financial Information Coordination

- Billing and administration

GAN CONFERENCING
Bringing the world together

Invoice Date: 7/1/2018
Total: $278.78
Statement# 35640 Customer# 3122729

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

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

CALL US
1-877-438-4261

Summary

Balance Information	
Previous Balance	576.61
Payments Received - Thank you!	(576.61)
Balance Forward	
New Charges	
New Usage Charges	236.45
Recurring Charges	0.00
Taxes and Surcharges	42.33
Total New Charges	278.78
Total Amount Due	278.78

Payments

Description	Date	Amount
Payment Received, Thank you!	6/25/18	(576.61)
Subtotal		**($576.61)**

Taxes and Surcharges

FEDERAL UNIVERSAL SERVICE FUND	42.33
Subtotal	**$42.33**

Management Reports

Usage by Category

Description	Calls	Minutes	Charge
Usage - Conference Calling	97	4,729.00	236.45
	97.00	**4,729.00**	**236.45**

Long Distance By Line

TN	Calls	Mins	Charge
	97	4,729.00	236.45
	97	**4,729.00**	**236.45**

Toll-free Usage

Cuyama BDSAC Conference ID: 4433930

#	Date	Time	Other	Location	Mins	Amt
1	6/06/18	05:58P	6507590535	Participant	96.00	4.80
2	6/06/18	05:58P	6614773385	Host	165.00	8.25
3	6/06/18	05:58P	8057811963	Participant	95.00	4.75
Subtotal			**356.00**			**17.80**

Cuyama BDSAC Conference ID: 4462904

#	Date	Time	Other	Location	Mins	Amt
1	6/28/18	05:56P	6614773385	Host	172.00	8.60
2	6/28/18	05:59P	5596361166	Participant	153.00	7.65
3	6/28/18	06:00P	9256274112	Host	151.00	7.55
4	6/28/18	06:01P	4155242290	Host	167.00	8.35
5	6/28/18	08:32P	6613316986	Participant	16.00	.80
Subtotal			**659.00**			**32.95**

Cuyama GSA Conference ID: 4429145

#	Date	Time	Other	Location	Mins	Amt
1	6/01/18	11:56A	6613951000	Host	47.00	2.35
2	6/01/18	11:58A	6614773385	Host	45.00	2.25
3	6/01/18	11:59A	4157938420	Host	45.00	2.25
4	6/01/18	12:00P	4155242290	Host	44.00	2.20
5	6/01/18	12:00P	5306689282	Host	43.00	2.15
Subtotal			**224.00**			**11.20**

Cuyama GSA Conference ID: 4436807

#	Date	Time	Other	Location	Mins	Amt
1	6/08/18	11:59A	4155242290	Host	63.00	3.15
2	6/08/18	12:00P	4157938420	Host	61.00	3.05
3	6/08/18	12:00P	9169998777	Host	61.00	3.05
4	6/08/18	12:00P	9256274112	Host	37.00	1.85
5	6/08/18	12:01P	6613337091	Host	61.00	3.05
6	6/08/18	12:36P	9258581340	Host	26.00	1.30
Subtotal			**309.00**			**15.45**

Cuyama GSA Conference ID: 4445559

#	Date	Time	Other	Location	Mins	Amt
1	6/15/18	11:58A	6614773385	Host	40.00	2.00
2	6/15/18	11:59A	4157938420	Host	42.00	2.10

3	6/15/18	12:00P	9169998777	Host	40.00	2.00
4	6/15/18	12:01P	4155242290	Host	39.00	1.95
5	6/15/18	12:01P	9256274112	Host	40.00	2.00
6	6/15/18	12:37P	6613340233	Host	4.00	.20
Subtotal			**205.00**			**10.25**

Cuyama GSA Conference ID: 4454655

#	Date	Time	Other	Location	Mins	Amt
1	6/22/18	11:55A	9256274112	Host	37.00	1.85
2	6/22/18	11:58A	6614773385	Host	34.00	1.70
3	6/22/18	11:59A	9169998777	Host	33.00	1.65
4	6/22/18	12:00P	4155242290	Host	32.00	1.60
5	6/22/18	12:00P	4157938420	Host	32.00	1.60
6	6/22/18	12:00P	6613337091	Host	32.00	1.60
Subtotal			**200.00**			**10.00**

Cuyama GSA Conference ID: 4454923

#	Date	Time	Other	Location	Mins	Amt
1	6/22/18	01:25P	8058867239	Host	56.00	2.80
2	6/22/18	01:27P	6614773385	Host	56.00	2.80
3	6/22/18	01:29P	6619020795	Host	52.00	2.60
4	6/22/18	01:30P	6613337091	Host	53.00	2.65
5	6/22/18	01:31P	8318182451	Host	45.00	2.25
Subtotal			**262.00**			**13.10**

Cuyama GSA Conference ID: 4463875

#	Date	Time	Other	Location	Mins	Amt
1	6/29/18	11:57A	4157938420	Host	49.00	2.45
2	6/29/18	11:58A	6614773385	Host	48.00	2.40
3	6/29/18	11:59A	9258581340	Host	47.00	2.35
4	6/29/18	12:00P	4155242290	Host	45.00	2.25
5	6/29/18	12:02P	9169998777	Host	44.00	2.20
Subtotal			**233.00**			**11.65**

GAN BREAKDOWN - June 2018

6/1/2018	$	11.20	
6/6/2018		17.80	
6/8/2018		15.45	
6/15/2018		10.25	
6/22/2018		10.00	
6/22/2018		13.10	
6/28/2018		32.95	
6/29/2018		11.65	
Subtotal	$	122.40	
Tax		22.52	18.40%
Total	$	144.92	

HALLMARK GROUP Capital Program Management

INVOICE

1901 Royal Oaks Drive
Suite 200
Sacramento, CA 95815

916 923.1500
hgcpm.com

To: Cuyama Basin GSA
c/o Jim Beck
4900 California Avenue, Ste B
Bakersfield, CA 93309

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

Invoice No.: 2018-CBWD-TO2-06A
Task Order: CB-HG-002
Date: July 17, 2018

For professional services rendered for the month of June 2018

Task Order	Sub task	Task Description	Billing Category	Month Ending	Hours	Rate	Amount
CB-HG-002	1	Budget Development & Admin	Executive Director	6/30/2018	0.00	$ 250.00	$ -
			Project Controls Manager	6/30/2018	0.00	$ 200.00	$ -
			Project Admin	6/30/2018	0.50	$ 100.00	$ 50.00
						Total Task 1 Labor	**$ 50.00**
CB-HG-002	2	Financial Management	Executive Director	6/30/2018	4.00	$ 250.00	$ 1,000.00
			Project Controls Manager	6/30/2018	5.50	$ 200.00	$ 1,100.00
			Project Admin	6/30/2018	6.25	$ 100.00	$ 625.00
						Total Task 2 Labor	**$ 2,725.00**
CB-HG-002	3	Outreach Facilitation	Executive Director	6/30/2018	0.75	$ 250.00	$ 187.50
			Project Admin	6/30/2018	13.75	$ 100.00	$ 1,375.00
						Total Task 3 Labor	**$ 1,562.50**
						Total Labor	**$ 4,337.50**
		Travel					$ -
						SubTotal Travel	**$ -**
		Other Direct Costs					$ -
			ODC Mark Up			5%	$ -
						SubTotal Other Direct Costs	**$ -**
						Total Travel & Other Direct Costs	**$ -**
						TOTAL AMOUNT DUE FOR THIS INVOICE	**$ 4,337.50**

CB-HG-002	Original Totals	Amendment(s)	Total Committed	Previously Billed	Current Billing	Remaining Balance
Task 1	$ 13,400.00	$ -	$ 13,400.00	$ 8,400.00	$ 50.00	$ 4,950.00
Task 2	$ 28,400.00	$ -	$ 28,400.00	$ 12,637.50	$ 2,725.00	$ 13,037.50
Task 3	$ 32,100.00	$ (18,450.00)	$ 13,650.00	$ 4,625.00	$ 1,562.50	$ 7,462.50
Travel & ODCs	$ 2,820.00	$ -	$ 2,820.00	$ -	$ -	$ 2,820.00
Total	**$ 76,720.00**	**$ (18,450.00)**	**$ 58,270.00**	**$ 25,662.50**	**$ 4,337.50**	**$ 28,270.00**

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

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

- **J. Beck**

Task 1: Budget Development & Administration

- Nothing to report.

Task 2: Financial Management

- Reviewed and prepared data for Santa Barbara County Water Agency invoice.
- Reviewed Santa Barbara County Water Agency documents with Joe H.
- Reviewed Santa Barbara County Water Agency purchase order.

Task 3: Outreach Facilitation

- Prepared for public workshops.
- Discussed outreach and public workshops with Project Management Team.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

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

T. Blakslee

Task 1: Budget Development & Administration

- Nothing to report.

Task 2: Financial Management

- Drafted and discussed Santa Barbara billing and financial backup with Jim B.

Task 3: Outreach Facilitation

- Coordinated agenda posting for Brown Act.
- Coordinated upload of SAC and Board meeting packets to website.
- Facilitated public workshop.
- Coordinated outreach items and workshop summary with Project Management Team.
- Contacted Kern County Assessors office regarding landowner parcel locations.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

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

M. Ballard

Task 1: Budget Development & Administration

- Reviewed Exhibit A-C in Agreement Template Prop 1 GWP 0.50 for task distribution.

Task 2: Financial Management

- Distributed Ventura County Data Request Agreement.

Task 3: Outreach Facilitation

- Revised and distributed workshop "Thank you" note from Robbie J. and Derek Y.
- Reviewed Cuyama Basin website for missing documents.
- Edited GSA public stakeholder contact list.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

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

- **J. Harris**

Task 2: Financial Management

- Completed accounting monthly financial package.
- Processed Santa Barbara assessment invoice.
- Trained staff on accounting and administration.
- Processed June 2018 assessment invoices.
- May billing and administration.

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

4550 CALIFORNIA AVENUE
SECOND FLOOR
BAKERSFIELD, CA 93309

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

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

June 29, 2018
Bill No. 22930-001-132431
JDH

Statement for Period through June 19, 2018

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

Date		Services	Hours	Amount
05/22/18	JLE	EXCHANGED E-MAIL WITH L. TURNER AND J. HUGHES AND HALLMARK GROUP REGARDING INSURANCE.	0.30	63.00
05/24/18	JDH	REVIEWED AND REPLIED TO E-MAIL FROM T. BLAKSLEE REGARDING BOARD MEETING.	0.40	108.00
05/25/18	JDH	PROJECT MANAGEMENT TEAM CONFERENCE CALL.	1.00	270.00
05/31/18	JDH	ATTENDED MAY REGULAR SAC MEETING TELEPHONICALLY.	2.00	540.00
06/01/18	JDH	WEEKLY PMT CONFERENCE CALL.	0.80	216.00
06/05/18	JDH	TELEPHONE CONFERENCE WITH J. BECK REGARDING SANTA BARBARA COUNTY CONTROLLER INQUIRY.	0.20	54.00
06/06/18	JDH	ATTENDED JUNE REGULAR BOARD MEETING; PREPARED FOR SAME.	4.00	1,080.00
06/11/18	RSP	REVISED CONFLICT ON INTEREST CODE BASED ON COMMENTS FROM FPPC; SENT SAME BACK TO FPPC.	0.50	95.00
06/18/18	RSP	PREPARED FURTHER REVISIONS TO CONFLICT OF INTEREST CODE BASED ON COMMENTS FROM FPPC.	0.50	95.00

		Rate	Hours	Amount
JLE	EATON, JACOB L.	210.00	0.30	63.00
JDH	HUGHES, JOSEPH	270.00	8.40	2,268.00
RSP	PATEL, RAVI	190.00	1.00	190.00
Total Fees				**$2,521.00**

Costs and Expenses

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

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

Bill No. 22930-001-132431 **June 29, 2018** **Page 2**
Client Ref: 22930 - 001

Date	Expenses	Amount
06/08/18	TRAVEL EXPENSES 6/6 ROUND TRIP TRAVEL FOR JUNE BOARD MEETING - JOSEPH D. HUGHES	70.85
Total Costs and Expenses		**$70.85**

Current Charges	**$2,591.85**
Prior Statement Balance	16,006.21
Payments/Adjustments Since Last Bill	-0.00
Pay This Amount	**$18,598.06**

PAST DUE

Any Payments Received After June 29, 2018 Will Appear on Your Next Statement

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

WOODARD &CURRAN

COMMITMENT & INTEGRITY
DRIVE RESULTS

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

T 800.426.4262
T 207.774.2112
F 207.774.6635

TD BANK
Electronic Transfer:
⑆211274450⑆ 2427662596⑈

INVOICE

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

July 19, 2018
Project No: 0011078.01
Invoice No: 152397

Project 0011078.01 CUYAMA GSP

Professional Services for the period ending June 29, 2018

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

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	2.50	315.00	787.50	
Software Engineer 1				
Matyac, Kyle	8.00	140.00	1,120.00	
Rutaganira, Thierry	10.50	140.00	1,470.00	
Project Manager 2				
Van Lienden, Brian	13.00	258.00	3,354.00	
Senior Project Manager				
Long, Jeanna	3.00	274.00	822.00	
Totals	37.00		7,553.50	
Labor Total				**7,553.50**
			Total this Phase	**$7,553.50**

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

Professional Personnel

	Hours	Rate	Amount	
Geologist 2				
Salberg, Lauren	33.50	182.00	6,097.00	
Planner 2				
Eggleton, Charles	27.25	182.00	4,959.50	
Project Manager 2				
Ayres, John	13.00	258.00	3,354.00	
Totals	73.75		14,410.50	
Labor Total				**14,410.50**
			Total this Phase	**$14,410.50**

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

Phase 004 Basin Model and Water Budget

Professional Personnel

	Hours	Rate	Amount	
Engineer 1				
Zhou, Jingnan	6.00	157.00	942.00	
Engineer 2				
Ceyhan, Mahmut	98.00	182.00	17,836.00	
Wicks, Matthew	36.00	182.00	6,552.00	
National Practice Lead				
Melton, Lyndel	3.00	315.00	945.00	
Project Manager 2				
Ayres, John	12.00	258.00	3,096.00	
Cayar, Mesut	1.50	258.00	387.00	
Van Lienden, Brian	2.00	258.00	516.00	
Senior Technical Manager				
Taghavi, Ali	19.00	274.00	5,206.00	
Totals	177.50		35,480.00	
Labor Total				**35,480.00**

Consultant

Subcontractor Expense

6/29/2018	Davids Engineering, Inc.	Inv#1174.02-3067		26,596.25	
Consultant Total			**1.1 times**	**26,596.25**	**29,255.88**
			Total this Phase		**$64,735.88**

Phase 005 Establish Basin Sustainability Criteria

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	7.00	315.00	2,205.00	
Project Manager 2				
Ayres, John	38.00	258.00	9,804.00	
Van Lienden, Brian	26.00	258.00	6,708.00	
Totals	71.00		18,717.00	
Labor Total				**18,717.00**

Reimbursable

Vehicle Expenses

6/6/2018	Melton, Lyndel	Board Meeting & Workshop		318.83	
Reimbursable Total			**1.1 times**	**318.83**	**350.71**
			Total this Phase		**$19,067.71**

Phase 006 Monitoring Networks

Professional Personnel

	Hours	Rate	Amount	
Project Manager 2				
Van Lienden, Brian	13.00	258.00	3,354.00	
Totals	13.00		3,354.00	
Labor Total				**3,354.00**
			Total this Phase	**$3,354.00**

Phase 007 Projects and Actions for Sustainability Goals

Professional Personnel

		Hours	Rate	Amount	
National Practice Lead					
Melton, Lyndel		9.00	315.00	2,835.00	
Project Manager 2					
Van Lienden, Brian		6.00	258.00	1,548.00	
	Totals	15.00		4,383.00	
	Labor Total				**4,383.00**
			Total this Phase		**$4,383.00**

Phase 010 Outreach, Education and Communication

Professional Personnel

		Hours	Rate	Amount	
Graphic Artist					
Fox, Adam		6.50	115.00	747.50	
Gustafson, Michael		1.50	115.00	172.50	
Planner 1					
De Anda, Vanessa		18.00	157.00	2,826.00	
Planner 2					
Eggleton, Charles		4.50	182.00	819.00	
	Totals	30.50		4,565.00	
	Labor Total				**4,565.00**

Reimbursable

Vehicle Expenses					
5/31/2018	AMERICAN EXPRESS	VANLIENDEN/BRIAN J		5.00	
6/6/2018	De Anda, Vanessa	Driving & Materials		152.06	
Printing / Reproduction					
6/12/2018	ABC Imaging/Graphic Reproduction	Inv#20192721		1,027.51	
	Reimbursable Total		**1.1 times**	**1,184.57**	**1,303.03**

Consultant

Subcontractor Expense					
6/29/2018	The Catalyst Group, Inc.	Inv#323		12,598.54	
	Consultant Total		**1.1 times**	**12,598.54**	**13,858.39**
			Total this Phase		**$19,726.42**

Project 0011078.01 CUYAMA GSP Invoice 152397

Phase 011 Project Management

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	9.00	315.00	2,835.00	
Project Assistant				
Hughart, Desiree	1.25	108.00	135.00	
Sentz-Casas, Christine	.75	108.00	81.00	
Project Manager 2				
Van Lienden, Brian	4.00	258.00	1,032.00	
Senior Technical Practice Lead				
Lopezcalva, Enrique	5.00	301.00	1,505.00	
Totals	20.00		5,588.00	
Labor Total				**5,588.00**

Total this Phase **$5,588.00**

Phase 012 GW Monitoring Well Network Expansion (Cat 1 – Task 1)

Professional Personnel

	Hours	Rate	Amount	
Planner 2				
Eggleton, Charles	64.25	182.00	11,693.50	
Software Engineer 1				
Rutaganira, Thierry	41.25	140.00	5,775.00	
Project Manager 2				
Van Lienden, Brian	5.00	258.00	1,290.00	
Senior Project Manager				
Long, Jeanna	3.00	274.00	822.00	
Technical Assistant				
Fitz, Anne	7.00	108.00	756.00	
Totals	120.50		20,336.50	
Labor Total				**20,336.50**

Reimbursable

Vehicle Expenses				
5/31/2018	Van Lienden, Brian	Cuyama GSP SAC meeting	45.44	
5/31/2018	Van Lienden, Brian	Cuyama GSP SAC meeting	41.81	
6/1/2018	Van Lienden, Brian	Cuyama GSP SAC meeting	46.27	
6/6/2018	Van Lienden, Brian	Cuyama GSP Workshop	53.23	
6/7/2018	Van Lienden, Brian	Cuyama GSP Workshop	27.85	
6/7/2018	Van Lienden, Brian	Cuyama GSP Workshop	88.52	
Travel & Lodging				
6/6/2018	Van Lienden, Brian	Cuyama GSP Workshop	.59	
6/6/2018	Van Lienden, Brian	Cuyama GSP Workshop	[illegible]	
Meals				
5/31/2018	Van Lienden, Brian	Cuyama GSP SAC meeting	10.20	
6/6/2018	Van Lienden, Brian	Cuyama GSP Workshop	12.42	
Reimbursable Total		**1.1 times**	**444.22**	**488.64**

Total this Phase **$20,825.14**

Project	0011078.01	CUYAMA GSP	Invoice	152397

Phase 013 Evapotranspiration Evaluation for Cuyama (Cat 1 – Task 2)

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	.50	315.00	157.50	
Project Manager 2				
Van Lienden, Brian	56.00	258.00	14,448.00	
Totals	56.50		14,605.50	
Labor Total				**14,605.50**
			Total this Phase	**$14,605.50**

Phase 015 Project Management (Cat 1 – Task 4)

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	6.00	315.00	1,890.00	
Project Manager 2				
Van Lienden, Brian	17.00	258.00	4,386.00	
Totals	23.00		6,276.00	
Labor Total				**6,276.00**
			Total this Phase	**$6,276.00**
			Total this Invoice	**$180,525.65**

Outstanding Invoices

Number	Date	Balance
149168	4/19/2018	131,008.36
150335	5/21/2018	137,396.11
151330	6/19/2018	126,056.64
Total		**394,461.11**

	Current Fee	Previous Fee	Total
Project Summary	**180,525.65**	**685,044.31**	**865,569.96**

Approved by:

Brian Van Lienden
Project Manager
Woodard & Curran

Progress Report

Cuyama Basin Groundwater Sustainability Plan Development

Subject:	**June 2018 Progress Report**
Prepared for:	Jim Beck, Executive Director, Cuyama Basin Groundwater Sustainability Agency (CBGSA)
Prepared by:	Brian Van Lienden, Woodard & Curran
Reviewed by:	Lyndel Melton, Woodard & Curran
Date:	July 18, 2018
Project No.:	0011078.01

This progress report summarizes the work performed and project status for the period of May 26, 2018 through June 29, 2018 on the Cuyama Basin Groundwater Sustainability Plan Development project. The work associated with this invoice was performed in accordance with our Consulting Services Agreement dated December 6, 2017, and with Task Orders 2 and 3, issued by CBGSA on March 7, 2018 and Task Orders 4 and 5, issued by the CBGSA on June 6, 2018. Note that Task Order 1, issued by CBGSA on December 6, 2017, was 100% spent as of the March 2018 invoice.

The progress report contains the following sections:

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

1 Work Performed

A summary of work performed on the project during the current reporting period is provided in Tables 1 and 2 below. Table 1 shows work performed under Task Orders 2 and 4, which include tasks identified in the forthcoming Category 2 grant from the California Department of Water Resources (DWR). Table 2 shows work performed under Task Orders 3 and 5, which includes tasks identified in the forthcoming Category 1 grant from DWR.

Table 1: Summary of Task/Deliverables Status for Category 2 Tasks (Task Orders 2 and 4)

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 1: Initiate Work Plan for GSP and Stakeholder Engagement Strategy Development	• Task 1 is completed; no work was undertaken on this task during this reporting period	• Task 1 is completed; no further work is anticipated
Task 2: Data Management System, Data Collection and Analysis, and Plan Review	• Finalized data and information outreach efforts • Continued development of data management system (DMS)	• Finalize development of the DMS • Develop user manuals and training materials for DMS
Task 3: Description of the Plan Area, Hydrogeologic Conceptual Model, and Groundwater Conditions	• Facilitated discussion of HCM at June CBGSA Workshop • Updated Plan Area GSP section in response to comments and submitted draft for approval by CBGSA Board • Developed and submitted review draft of Hydrologic Conceptual Model (HCM) GSP section	• Update Plan Area section in response to Stakeholder Advisory Committee (SAC) comments • Update draft HCM GSP section • Begin development of draft Groundwater Conditions GSP section
Task 4: Basin Model and Water Budget	• Continued development of Integrated Water Flow Model (IWFM) of the Cuyama Basin, including initiating work on IWFM Demand Calculator (IDC)	• Continued development of IWFM model
Task 5: Establish Basin Sustainability Criteria	• Facilitate discussions on sustainability at June CBGSA Workshop • Developed summary of sustainability comments made at CBGSA workshop and discussed with SAC	• Develop draft Undesirable Results narrative
Task 6. Monitoring Networks	• Continued compilation and processing of available monitoring well locations and monitoring data	• Discuss monitoring well locations and areas for potential additions with SAC and CBGSA Board

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 7: Projects and Actions for Sustainability Goals	• Identification and refinement of potential projects and actions	• Continued identification and refinement of potential projects and actions
Task 8. GSP Implementation	• No work was completed on this task during this reporting period	• No work is anticipated during the next reporting period
Task 9. GSP Development	• No work was completed on this task during this reporting period	• No work is anticipated during the next reporting period
Task 10: Education, Outreach and Communication	• Performed planning and facilitation of June CBGSA workshop • Participated in meetings with CBGSA Board, Advisory Committee and local stakeholders	• Continued participation in meetings with CBGSA Board and advisory committee and local stakeholders
Task 11: Project Management	• Ongoing project management activities	• Ongoing project management activities

Table 2: Summary of Task/Deliverables Status for Category 1 Tasks (Task Orders 3 and 5)

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 12: Groundwater Monitoring Well Network Expansion	• Continued compilation and review of existing groundwater monitoring data within the Cuyama Basin	• Discuss with SAC and CBGSA Board existing monitoring well locations and areas where added monitoring may provide value • Develop summary of existing monitoring wells and data
Task 13: Evapotranspiration Evaluation for Cuyama Basin Region	• Completed historical land use estimates and developed presentation materials to discuss land use at SAC and CBGSA Board meetings • Continued development of METRIC ET estimates for Cuyama Basin	• Completion and review of METRIC ET estimates for Cuyama Basin • Integration of land use and METRIC ET estimates into Cuyama Basin model
Task 14: Surface Water Monitoring Program	• No work was completed on this task during this reporting period	• Identification of surface water monitoring locations and gaps

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 15: Category 1 Project Management	• Ongoing project management activities	• Ongoing project management activities

2 Budget Status

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

Table 3: Budget Status for Task Order 1

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
1	$ 35,768.00	$ 35,755.53	$ -	$ 35,755.53	$ 12.47	100%
2	$ 61,413.00	$ 61,413.00	$ -	$ 61,413.00	$ -	100%
3	$ 45,766.00	$ 45,766.00	$ -	$ 45,766.00	$ -	100%
4	$ 110,724.00	$ 110,724.00	$ -	$ 110,724.00	$ -	100%
5	$ -	$ -	$ -	$ -	$ -	n/a
6	$ -	$ -	$ -	$ -	$ -	n/a
7	$ 12,120.00	$ 12,120.00	$ -	$ 12,120.00	$ -	100%
8	$ -	$ -	$ -	$ -	$ -	n/a
9	$ -	$ -	$ -	$ -	$ -	n/a
10	$ 45,420.00	$ 45,432.47	$ -	$ 45,432.47	$ (12.47)	100%
11	$ 9,924.00	$ 9,924.00	$ -	$ 9,924.00	$ -	100%
Total	**$ 321,135.00**	**$ 321,135.00**	$ -	**$ 321,135.00**	$ -	**100%**

Table 4 shows the percent spent for each task under Task Order 2 as of June 29, 2018. 84% of the available Task Order 2 budget has been expended ($334,017.21 out of $399,469).

Table 4: Budget Status for Task Order 2

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
1	$ -	$ -	$ -	$ -	$ -	n/a
2	$ 48,457.00	$ 18,670.00	$ 7,553.50	$ 26,223.50	$ 22,233.50	54%
3	$ 24,182.00	$ 23,660.50	$ 521.50	$ 24,182.00	$ -	100%
4	$ 103,880.00	$ 90,171.43	$ 13,708.57	$ 103,880.00	$ -	100%
5	$ 60,676.00	$ 34,324.00	$ 19,067.71	$ 53,391.71	$ 7,284.29	88%
6	$ 65,256.00	$ 41,056.50	$ 3,354.00	$ 44,410.50	$ 20,845.50	68%
7	$ 36,402.00	$ 16,930.50	$ 4,383.00	$ 21,313.50	$ 15,088.50	59%
8	$ -	$ -	$ -	$ -	$ -	n/a
9	$ -	$ -	$ -	$ -	$ -	n/a
10	$ 45,420.00	$ 43,774.67	$ 1,645.33	$ 45,420.00	$ -	100%
11	$ 15,196.00	$ 13,169.00	$ 2,027.00	$ 15,196.00	$ -	100%
Total	**$ 399,469.00**	**$ 281,756.60**	**$ 52,260.61**	**$ 334,017.21**	**$ 65,451.79**	**84%**

Table 5 shows the percent spent for each task under Task Order 3 as of June 29, 2018. 56% of the available Task Order 3 budget has been expended ($105,408.01 out of $188,238).

Table 5: Budget Status for Task Order 3

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
12	$ 53,244.00	$ 46,253.21	$ 6,990.79	$ 53,244.00	$ -	100%
13	$ 69,706.00	$ 25,354.50	$ 14,605.51	$ 39,960.01	$ 29,746.00	57%
14	$ 53,342.00	$ 258.00	$ -	$ 258.00	$ 53,084.00	0%
15	$ 11,946.00	$ 10,287.00	$ 1,659.00	$ 11,946.00	$ -	100%
Total	**$ 188,238.00**	**$ 82,152.71**	**$ 23,255.30**	**$ 105,408.01**	**$ 82,830.00**	**56%**

Table 6 shows the percent spent for each task under Task Order 4 as of June 29, 2018. 11% of the available Task Order 2 budget has been expended ($86,558.40 out of $399,469).

Table 6: Budget Status for Task Order 4

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
1	$ -	$ -	$ -	$ -	$ -	n/a
2	$ 24,780.00	$ -	$ -	$ -	$ 24,780.00	n/a
3	$ 26,912.00	$ -	$ 13,889.00	$ 13,889.00	$ 13,023.00	52%
4	$ 280,196.00	$ -	$ 51,027.31	$ 51,027.31	$ 229,168.70	18%
5	$ 47,698.00	$ -	$ -	$ -	$ 47,698.00	n/a
6	$ -	$ -	$ -	$ -	$ -	n/a
7	$ 117,010.00	$ -	$ -	$ -	$ 117,010.00	n/a
8	$ 69,780.00	$ -	$ -	$ -	$ 69,780.00	n/a
9	$ 91,132.00	$ -	$ -	$ -	$ 91,132.00	n/a
10	$ 70,236.00	$ -	$ 18,081.09	$ 18,081.09	$ 52,154.91	26%
11	$ 36,652.00	$ -	$ 3,561.00	$ 3,561.00	$ 33,091.00	10%
Total	**$ 764,396.00**	**$ -**	**$ 86,558.40**	**$ 86,558.40**	**$ 677,837.60**	**11%**

Table 7 shows the percent spent for each task under Task Order 5 as of June 29, 2018. 4% of the available Task Order 3 budget has been expended ($18,451.35 out of $188,238).

Table 7: Budget Status for Task Order 5

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
12	$ 196,208.00	$ -	$ 13,834.35	$ 13,834.35	$ 182,373.65	7%
13	$ 24,950.00	$ -	$ -	$ -	$ 24,950.00	n/a
14	$ 204,906.00	$ -	$ -	$ -	$ 204,906.00	n/a
15	$ 33,822.00	$ -	$ 4,617.00	$ 4,617.00	$ 29,205.00	14%
Total	**$ 459,886.00**	**$ -**	**$ 18,451.35**	**$ 18,451.35**	**$ 441,434.65**	**4%**

3 Schedule Status

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

4 Outstanding Issues to be Coordinated

There are no outstanding issues at this time.