

Notice and Agenda of a Meeting of the Beaumont Basin Watermaster

Tuesday, October 6, 2021 at 11:00 a.m.

Watermaster Members:

City of Banning
City of Beaumont
Beaumont Cherry Valley Water District
South Mesa Water Company
Yucaipa Valley Water District

Meeting Location:

Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

This meeting is also available by calling (669) 900-9128
using Meeting ID 816-3872-0446 and Passcode 636756#

Online Meeting Participation Link: <https://us02web.zoom.us/j/81638720446>
Meeting ID: 816-3872-0446 and Passcode: 636756

I. Call to Order

II. Roll Call

City of Banning: Arturo Vela (Alternate: Luis Cardenas)

City of Beaumont: Jeff Hart (Alternate: Robert Vestal)

Beaumont Cherry Valley Water District: Daniel Jagers (Alternate: Mark Swanson)

South Mesa Water Company: George Jorritsma (Alternate: Dave Armstrong)

Yucaipa Valley Water District: Joseph Zoba (Alternate: Jennifer Ares)

III. Pledge of Allegiance

- IV. Public Comments** At this time, members of the public may address the Beaumont Basin Watermaster on matters within its jurisdiction; however, no action or discussion may take place on any item not on the agenda. To provide comments on specific agenda items, please complete a Request to Speak form and provide that form to the Secretary prior to the commencement of the meeting.

V. Consent Calendar

A. Meeting Minutes

1. Meeting Minutes for August 4, 2021 [\[Page 4 of 36\]](#)
2. Meeting Minutes for August 17, 2021 [\[Page 5 of 36\]](#)

VI. Reports

- A. Report from Engineering Consultant - Hannibal Blandon, ALDA Engineering
- B. Report from Hydrogeological Consultant - Thomas Harder, Thomas Harder & Co.
- C. Report from Legal Counsel - Thierry Montoya/Keith McCullough, Alvarado Smith

VII. Discussion Items

- A. Discussion Regarding the Date and Time of Regular Meetings of the Beaumont Basin Watermaster [\[Memorandum No. 21-35, Page 14 of 36\]](#)
Recommendation: Pending.
- B. Discussion Regarding the Assignment of an Ad Hoc Committee for the Development of a Procurement Policy [\[Memorandum No. 21-36, Page 16 of 36\]](#)
Recommendation: That the Watermaster Committee appoint an Ad Hoc Committee.
- C. Financial Status Report [\[Memorandum No. 21-37, Page 17 of 36\]](#)
Recommendation: Presentation Only - No Action Required.
- D. Discussion Regarding the Development and Inclusion of Items on a Meeting Agenda [\[Memorandum No. 21-38, Page 20 of 36\]](#)
Recommendation: Pending.
- E. Status Report on Water Level Monitoring throughout the Beaumont Basin through Sept 22, 2021 [\[Memorandum No. 21-39, Page 21 of 36\]](#)
Recommendation: Presentation - No recommendation.
- F. A Comparison of Production vs Extraction Credits through August 2021 [\[Memorandum No. 21-40, Page 31 of 36\]](#)
Recommendation: No recommendation - For informational purposes only
- G. Storage Accounting Issues – Preliminary Framework [\[Memorandum No. 21-41, Page 32 of 36\]](#)
Recommendation: Presentation of Issues - No recommendation
- H. Consideration of Change Order No. 1 for Task Order No. 26 for the Development of a Framework to Address Storage Accounting Issues [\[Memorandum No. 21-42, Page _ of _\]](#)
Recommendation: That the Watermaster Committee considers approving Change Order No. 1 to Task Order No. 26 for the sum not to exceed \$20,000,00 and to direct the Treasurer to invoice specific Appropriators based on anticipated benefits.

VIII. Topics for Future Meetings

- A. Development of a methodology and policy to account for groundwater storage losses in the basin resulting from the artificial recharge of water resources.

IX. Comments from the Watermaster Committee Members

X. Announcements

- A. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, December 1, 2021, at 11:00 a.m.
- B. Future Meeting Dates:
 - February 2, 2022, at 11:00 am
 - April 6, 2022, at 11:00 am
 - June 1, 2022, at 11:00 am

- August 3, 2022, at 11:00 am
- October 5, 2022, at 11:00 am
- December 7, 2022, at 11:00 am

XI. Adjournment

DRAFT
Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, August 4, 2021

Meeting Location:

There was no public physical meeting location due to the coronavirus pandemic. Meeting held via video teleconference pursuant to: California Government Code Section 54950 et. seq. and California Governor's Executive Orders N-29-20, N-33-20, and N-08-21

I. Call to Order

Chairman Arturo Vela called the meeting to order at 10:00 a.m.

II. Roll Call [KL(1)]

<i>City of Banning</i>	<i>Arturo Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Jeff Hart</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Daniel Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>George Jorritsma</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba</i>	<i>Present</i>

Hannibal Blandon and Thomas Harder were present as engineers for the BBWM.

Members of the public who registered and / or attended:

*Mark Swanson, Beaumont-Cherry Valley Water District
Erica Gonzales, Beaumont-Cherry Valley Water District
Daniel Baguyo, Beaumont-Cherry Valley Water District
Evan Ward, Beaumont-Cherry Valley Water District
John Covington, BVCWD / Morongo Band of Mission Indians
Dave Armstrong, South Mesa Water Company
Jennifer Ares, Yucaipa Valley Water District
John Ohanian, Oak Valley Partners*

Due to technical difficulties, the meeting was immediately adjourned and canceled, to be rescheduled.

Attest:

DRAFT UNTIL APPROVED

Daniel Jagers, Secretary
Beaumont Basin Watermaster

DRAFT
Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Tuesday, August 17, 2021

Meeting Location:

There was no public physical meeting location due to the coronavirus pandemic. Meeting held via video teleconference pursuant to: California Government Code Section 54950 et. seq. and California Governor's Executive Orders N-29-20, N-33-20, and N-08-21

This meeting was rescheduled from August 4, 2021.

I. Call to Order

Chairman Arturo Vela called the meeting to order at 1:40 p.m.

II. Roll Call

<i>City of Banning</i>	<i>Arturo Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Jeff Hart</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Daniel Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>George Jorritsma</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba</i>	<i>Present</i>

Hannibal Blandon and Thomas Harder were present as engineers for the BBWM.

Thierry Montoya was present as BBWM legal counsel.

Members of the public who registered and / or attended:

Thaxton Van Belle, Chief Plant Operator, City of Beaumont

Julio Martinez, City Councilmember, City of Beaumont

Madeline Blua, Yucaipa Valley Water District

Allison Edmisten, Yucaipa Valley Water District

Jennifer Ares, Yucaipa Valley Water District

David Armstrong, South Mesa Water Company

Lance Eckhart, San Geronio Pass Water Agency

Daniel Baguyo, Beaumont-Cherry Valley Water District

Mark Swanson, Beaumont-Cherry Valley Water District

Erica Gonzales, Beaumont-Cherry Valley Water District

Evan Ward, Beaumont-Cherry Valley Water District

Madeline Chen

Steve Anderson

Steve Stuart

Ty Muli

III. Pledge of Allegiance

Chair Vela led the pledge.

IV. Public Comments:

None.

V. Consent Calendar

1. Meeting Minutes for June 2, 2021
2. Meeting Minutes for June 28, 2021

It was moved by Member Zoba and seconded by Member Jagers to approve the Meeting Minutes.

AYES:	Hart, Jagers, Jorritsma, Vela, Zoba
NOES:	None.
ABSTAIN:	None.
ABSENT:	None.
STATUS:	Motion Approved

VI. Reports

- A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering

Mr. Blandon reported two issues on Task Order No. 26 regarding a framework to address storage losses from the basin. A presentation will be made at the October 21 meeting.

Development of a new production well at YVWD is a candidate as a new monitoring site, he said. Mr. Blandon identified an issue with the transfer of water rights. Mr. Zoba clarified this is an existing well and does not result in a transfer of water rights; the rights belong to Beaumont-Cherry Valley Recreation and Park District.

- B. Report from Hydrogeological Consultant – Thomas Harder, Thomas Harder & Co.

No report.

- C. Report from Legal Counsel – Thierry Montoya, Alvarado Smith

Mr. Montoya noted that the hearing on YVWD's motions has been continued to August 31, 2021 at 830 a.m. He advised that he had received a memo from John Pinkney on behalf of the City of Beaumont requesting an update on when Beaumont will receive all the technical reports and public records requested. He advised it is in the works.

In response to a request from Mr. Zoba, Mr. Montoya will send a copy of the request made by the City of Beaumont to all Committee members.

VII. Discussion Items

- A. Status Report on Water Level Monitoring throughout the Beaumont Basin through July 26, 2021

Recommendation: No recommendation.

Mr. Blandon reviewed the report. Water levels at several observation wells continue to decline he noted. He advised the Committee of a cable under warranty replaced at no charge.

Blandon described seasonal fluctuations and year-to-year decline at BCVWD Well 25, and the impact of pumping at BCVWD Well 3 on levels at Well 2.

Equipment issues at BCVWD Well 29 will be investigated in the fall, Blandon noted, and said BCVWD has indicated they will be fully responsible for the replacement of the cable and the probe.

- B. Production and Allowable Extractions through June 2021

Recommendation: No recommendation; informational only

Mr. Blandon shared the table of Production vs. Allowable Extractions through June 2021. He noted that 6,617 acre-feet of imported water has been spread in the Basin.

Production through the end of June has been 7,600 af which exceeds the total allowable production by 16 percent. As of December, 2020 over 117,000 af was in storage in the Basin, Blandon noted.

Member Jagers said BCVWD understands it is withdrawing from storage and proposed that the table be revised.

- C. Return Flow Accounting Methodology presentation of final Technical Memorandum and comments

Recommendation: That the Watermaster Committee accept the final Technical Memorandum, findings, and recommendations

Mr. Thomas Harder reviewed the recommended return flow accounting methodology and comments received on the Technical Memo. Data records from each appropriator would be obtained via a spreadsheet document. Information from the entire service area would be gathered and compared to wastewater treatment plant inflows, he explained. Those ratios can be applied to those parcels within the adjudication area.

Implementing the plan, estimated return flow for each appropriator on an annual basis, reporting previous year and applying the return flow to each appropriator per the lag time schedule, he explained. It takes the water in some areas 50 to 50 years to get down to the water table.

Harder recommended reevaluating the methodology every five to 10 years to assure it is representative of what is happening.

Mr. Harder responded to comments and questions submitted by the City of Banning.

Member Jagers pointed to water activities moving forward such as the grading along Cherry Valley Boulevard and questioned the evaporation factor. Mr. Harder advised that the State does not publish a return flow factor for applied water for construction use. Short of anything else, the 25 percent factor will be applied. These are not significant, as historically there has not been much construction water delivered, Harder noted, and suggested reevaluating in five years.

Member Hart added that production numbers for wells belonging to the Parks District for the grading would be interesting to analyze. Ten acre-feet seems low, he opined, considering the growth being seen. Mr. Vela agreed that construction is very active.

Mr. Harder discussed the projected impact of return flow on groundwater quality in the Beaumont Basin.

Member Jagers advised that BCVWD intends to contribute recycled water and asked about detail of the model. Mr. Harder responded that there is no history of recycled water recharge in the adjudicated area, so the model includes only return flow of implied irrigation water is included in the model. The imported water was included as an average of historic delivered concentrations, he stated. Jagers suggested there is some refinement to move toward to fully understand the application of recycled water.

Member Zoba pointed out that the Basin Plan Objective is required to be met. Chair Vela pointed out that the intent was to better understand and model the return flow and implement from a policy perspective. He

inquired about formal steps for implementation and requested member input.

Mr. Jagers said it is important to project the health of the basin overall and have an opportunity to improve the model as cause and effect is seen. He pointed to future solutions based on data collected.

Member Jorritsma indicated neutrality on moving forward, as South Mesa has no return flow.

Member Hart concurred with the methodology and suggested a deeper dive into analysis of rate of return on construction water.

Chair Vela touched on water quality saying that the City of Beaumont is planning to discharge recycled water over the basin and is looking at different technologies. The intent is to meet the requirements of the Beaumont Management Zone, he said. The review of this analysis will help understand impacts to the Basin from recycled water, he noted, and supported.

Member Zoba asked how the issue with overlies will be addressed, as they may also want to receive return flow credit. Mr. Montoya noted there are multiple parties and multiple viewpoints, and suggested an ad hoc committee to examine the various standpoints. Member Vela pointed to the Morongo golf course and their storage account. Mr. Harder said golf courses will be watering and have more regular return flow. It would be relatively easy to quantify and there is information on return flow factors for golf courses that can be incorporated into the accounting; the methodology would be the same.

Mr. Montoya indicated the constituent elements should be determined before the policy. Following comments from Mr. Jagers and Mr. Zoba, he indicated there is not enough information at this point to get to the policy development stage. Roles of overlies and issues must be developed further, he said.

In response to Chair Vela, Mr. Zoba suggested tabling the item as at this time it may be incomplete. Mr. Harder said it is easy to add a single golf course, but to extend to other overlying uses may be more involved. Counsel Montoya advised that the development of policy needs further consideration. He suggested consideration of the impact of a single golf course.

Mr. Harder indicated he could report back on addition of a single golf course. Mr. Jagers pointed out that most production for the Tukwet Golf Course is from the Beaumont Basin, however a number of the greens lie outside the Basin and therefore part of the water leaves the Basin and does not return. In response to Member Zoba, Mr. Harder

advised that the methodology is geared toward appropriators, and it has not been considered how it might be applied to overlies. Mr. Jagers requested legal counsel's opinion and discussion on related overlie rights. Mr. Zoba agreed, pointed to upcoming uses such as a park, and suggested a table of multipliers to provide for the accounting.

Mr. Blandon pointed out there are other types of overlies without storage accounts which are contributing return flows to the Basin. Mr. Jagers pointed back to the Basin safe yield.

Chair Vela requested legal counsel opinion and tabled the item for further discussion.

D. Task Order No. 27 to Provide Electronic Files of the Groundwater Model of the Beaumont Basin to the City of Beaumont

Recommendation: That the Watermaster Committee considers the approval of this task order at a cost not to exceed \$15,000

Mr. Hannibal Blandon requested a new Task Order be opened and reminded the Committee about the request from the City of Beaumont, which was completed at a cost of \$2,765. The new information requested by the City includes electronic files that will take an estimated 84 hours of mostly Mr. Harder's time for a cost of \$10,790. Blandon requested \$15,000 in case the City may have other miscellaneous requests.

Member Hart advised that he did not request this Task Order. He said his interpretation of the contract with ALDA indicates this is information to which the owner is entitled and has paid, and he objected to the additional compensation required to fulfill the task. Mr. Blandon reiterated this requires significant effort of the part of the consultant.

Mr. Hart pointed out the requesting agency is an owner and is party to the contract, and said he was having a hard time seeing the significant time and effort for delivering data that has already been created and compiled. Mr. Harder offered detail.

In response to Member Hart, Mr. Blandon noted the ALDA contract is on a time and materials basis. Mr. Hart indicated this seems excessive. Mr. Zoba and Mr. Jagers concurred that the data would be helpful to have in a clear and consistent form.

In response to Chair Vela, Mr. Harder described the data and work involved. Mr. Jagers noted that with all agencies participating, the cost

is \$3,000 apiece. He pointed out that nothing happens in a public records request without effort, and supported the Task Order.

The cost is to prepare the data requested, and does not include updating the data, Harder stated.

It was moved by Member Zoba and seconded by Member Jaggars to approve Task Order No. 27 to be split between the five members and to send out invoices to the Watermaster Committee members. The motion was approved by the following vote:

AYES:	Hart, Jaggars, Jorritsma, Vela, Zoba
NOES:	None.
ABSTAIN:	None.
ABSENT:	None.
STATUS:	Motion Approved

E. Electronic Delivery of Annual Report

Recommendation: That the Watermaster Committee considers the delivery of annual reports, both draft and final, in electronic format unless an individual member or agency would prefer hard copies of individual reports

Mr. Blandon noted that reports have been delivered and comments provided electronically for the past year and longer due to COVID-19 and business is moving toward paperless. The cost of annual reports is approximately \$2,000 for 12 copies of the draft and 12 copies of the final report, he advised.

It was moved by Member Hart and seconded by Member Jaggars to deliver the annual reports in electronic format. The motion was approved 5-0 by the following vote:

AYES:	Hart, Jaggars, Jorritsma, Vela, Zoba
NOES:	None.
ABSTAIN:	None.
ABSENT:	None.
STATUS:	Motion Approved

F. Discussion Regarding the Date and Time of Regular Meetings of the Beaumont Basin Watermaster

Member Zoba requested comment for scheduling the next year's meetings. Discussion ensued. Member Zoba will prepare a resolution for adoption at the next meeting on October 6, 2021 at 11 a.m.

G. Financial Status Report

Member Zoba presented the update and indicated the Task Orders will be updated to include the approved Task Order 27. He advised that he is engaging with the auditor to prepare the review of financial documents, which may be ready for the next meeting.

VIII. Topics for Future Meetings

- a. Development of a methodology and policy to account for groundwater storage losses in the basin resulting from the artificial recharge of water resources.
- b. Development of a methodology and policy to account for recycled water recharge.
- c. Discussion regarding the addition of various topics to future meetings.
- d. Process to place an item on the Watermaster Committee agenda.
- e. Establishment of an ad hoc committee to produce a procurement policy.

IX. Comments from the Watermaster Committee Members

Member Hart inquired about interest in creating a procurement policy. Member Jagers suggested creation of an ad hoc committee. Member Zoba pointed out that most activities are consultant based and have been via Requests for Proposal. Member Hart clarified the policy would include other procurement types.

Member Hart requested that presentations be provided on Mondays prior to the meetings. Mr. Jagers suggested 72 hours or 24 hours in advance in accordance with the Brown Act.

X. Announcements

- a. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, October 6, 2021 at 11:00 a.m.
- b. Future Meeting Dates:

i. Wednesday, December 1, 2021 at 11:00 a.m.

XI. Adjournment

Chairman Vela adjourned the meeting at 3:31 p.m.

Attest:

DRAFT UNTIL APPROVED

Daniel Jagers, Secretary
Beaumont Basin Watermaster

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 21-35

Date: October 6, 2021

From: Joseph Zoba, Treasurer

Subject: Discussion Regarding the Date and Time of Regular Meetings of the Beaumont Basin Watermaster

Recommendation: Pending

The Beaumont Basin Watermaster is currently scheduled to meet on the first Wednesday of even numbered months. This provides for regular meetings on the following dates:

- December 1, 2021 at 10:00 am
- February 2, 2022 at 10:00 am
- April 6, 2022 at 10:00 am
- June 1, 2022 at 10:00 am
- August 3, 2022 at 10:00 am
- October 5, 2022 at 10:00 am
- December 7, 2022 at 10:00 am

At the Watermaster meeting held on August 17, 2021, the Watermaster Committee members discussed changing the time of the meetings from 10:00am to 11:00am. A resolution changing the time of the meetings was expected to be presented at this meeting to adjust the meeting start time. However, after researching this issue, Resolution No. 2012-01 (attached) does not include a meeting time. Therefore, it appears that the meeting time is set by the Watermaster Committee based on the ability to accommodate the individual schedules of the Watermaster Committee members. Additionally, the text from Resolution No. 2012-01 should be added to the latest version of the Rules and Regulations.

RESOLUTION NO. 2012-01**A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER
ADOPTING AN AMENDMENT TO RULE 2.2 "MEETINGS OF THE
WATERMASTER" OF THE RULES AND REGULATIONS OF THE WATERMASTER**

WHEREAS, the Judgment establishing the Beaumont Basin Watermaster (Riverside Superior Court Case No. 389197) empowers the Watermaster to adopt appropriate rules and regulations for the conduct of Watermaster affairs; and

WHEREAS, the Watermaster desires to establish regular meeting dates to improve the overall communication and coordination between the Watermaster members, interested parties and the public.

NOW, THEREFORE, the Beaumont Basin Watermaster hereby resolves as follows:

Section 1: Amendment to Rule 2.2

Rule 2.2 of the Beaumont Basin Watermaster Rules and Regulations is hereby amended in its entirety to read as follows:

"2.2 Meetings of the Watermaster. The Watermaster shall conduct regular meetings on the first Wednesday of every even numbered month. Special meetings and workshops may be called as necessary to conduct the business of the Watermaster. All meetings of the Watermaster shall be open in public and conducted in accordance with the provisions of the California Open Meeting Law (Brown Act)."

Section 2: Notice of Adoption

The Secretary of the Watermaster is hereby authorized and directed to disseminate copies of this Resolution Amendment to all pumpers within the Beaumont Basin and other interested parties, and to incorporate such Amendment in the Rules and Regulations of the Watermaster and maintain the same on its website for reference.

PASSED AND ADOPTED this 18th day of April, 2012.

BEAUMONT BASIN WATERMASTER

By: _____
Chairman of the Watermaster

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 21-36

Date: October 6, 2021

From: Joseph Zoba, Treasurer

Subject: Discussion Regarding the Assignment of an Ad Hoc Committee for the Development of a Procurement Policy

Recommendation: That the Watermaster Committee appoint an Ad Hoc Committee.

At the Watermaster meeting held on August 17, 2021, Committee member Jeff Hart requested an agenda item to appoint individuals to an ad hoc committee for the purpose of developing a procurement policy.

Mr. Hart will provide additional comments regarding this item at the Watermaster meeting.

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 21-37

Date: October 6, 2021

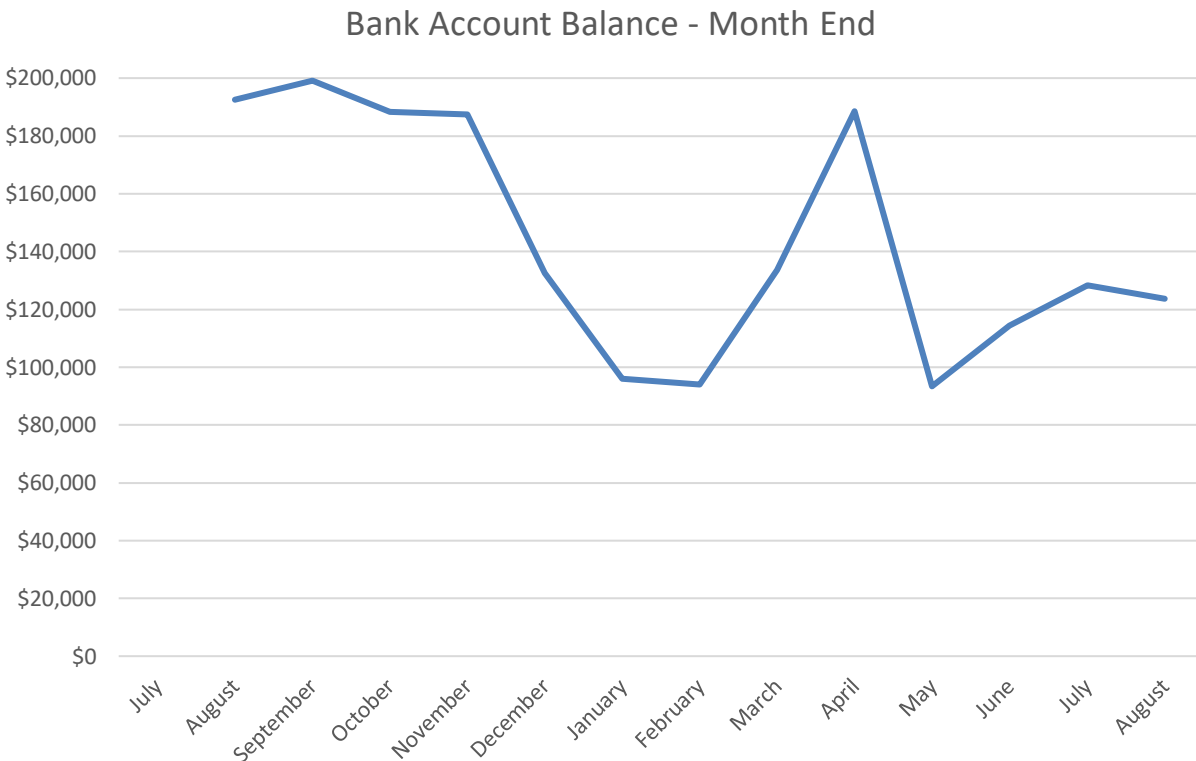
From: Joseph Zoba, Treasurer

Subject: Financial Status Report

Recommendation: Presentation Only - No Action Required

The following information has been compiled to provide an update on the financial status of the Beaumont Basin Watermaster.

Account Balance - The bank account balance will increase with the receipt of payments from the Watermaster Committee and decrease with the payment of routine expenses incurred by the Watermaster.



Budget Monitoring - Revenue for the Beaumont Basin Watermaster is received when one of the following events occur: (1) the Watermaster Committee approves a task order; (2) the Watermaster Committee approves a special project; (3) when a budget is adopted with a recommendation to replenish the anticipated administrative expenses for the year; or (4) when the administrative funds have been depleted and additional funds are required.

Based on the current status of the budget, the anticipated budget line item overage for Legal Expenses will be funded from Reserve Funds.

OPERATING EXPENSES:	Approved Budget Fiscal Year 2021	Year-To-Date Expenses	Percentage of Approved Budget
Bank Fees & Interest	\$50.00	-\$3.86	-7.7%
Miscellaneous & Meeting Expenses	\$250.00	\$0.00	0.0%
Acquisition/Computation & Annual Report	\$100,000.00	\$0.00	0.0%
Annual Audit	\$1,300.00	\$0.00	0.0%
Engineering Services	\$50,000.00	\$0.00	0.0%
Monitoring & Data Acquisition	\$50,000.00	\$0.00	0.0%
Meter Installation	\$10,000.00	\$0.00	0.0%
Legal Expenses - Special Project	- -	\$12,051.37	- -
Legal Expenses	\$25,000.00	\$0.00	0.0%
Reserve Funding	\$10,000.00	\$0.00	0.0%
Special Project - Engineering	\$0.00	\$0.00	0.0%
Special Project - Litigation	\$0.00	\$0.00	0.0%
Total Operating Expense	\$246,600.00	\$12,487.51	5.1%

Summary of Consultant Task Orders - The following Task Orders are open with our consultants.

Task Order	Description	Contract Amount	Payments to Date	Percent Billed to Date
8	On-Call Services	\$20,000	\$18,062.50	90%
17	Return Flow Analysis	\$98,280	\$67,431.25	69%
20	2020 Support Services	\$95,970	\$83,442.50	87%
21	2020 Water Level Monitoring	\$21,520	\$18,000.00	84%
22	Water Quality Monitoring	\$43,750	\$41,953.75	96%
23	2020 Annual Report	\$95,970	\$62,497.50	65%
24	2021 Water Level Monitoring	\$21,520	\$7,500.00	35%
25	On Call Engineering Services	\$25,000	- -	- -
26	Account for Storage Losses	\$10,000	- -	- -

27	Data Compilation & Distribution	\$15,000	--	--
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BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 21-38

Date: October 6, 2021

From: Joseph Zoba, Treasurer

Subject: Discussion Regarding the Development and Inclusion of Items on a Meeting Agenda

Recommendation: Pending.

On April 7, 2021, the Watermaster Committee discussed a draft policy to describe how a discussion item can be added to a meeting agenda. While an ad hoc committee of Joseph Zoba and Dan Jagers have been unable to meet to discuss this issue, it might be helpful to discuss the most logical way to add items to future Watermaster meetings.

In the past the Watermaster Committee paid a consultant to prepare meeting agenda items. With or without a consultant preparing the meeting agendas, it seems that any member of the Watermaster Committee should have the ability to prepare and submit an item for discussion at a meeting.

Over the past several years, the Yucaipa Valley Water District has offered to prepare and distribute meeting packets on behalf of the Beaumont Basin Watermaster. Currently, the Word file used as the memorandum template has been provided to our consultants who prepare their individual agenda items. The same process has been offered to other Watermaster members in the past. The due date for memorandums and corresponding attachments is one week before the meeting date to allow time to compile the meeting packet. Whenever a Watermaster Committee member would like to prepare an agenda item, please request a copy of the latest Word memorandum template from me or any of our consultants.

This seems to be the simplest and most efficient way for each Watermaster Committee member to actively participate in the organization.

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 21-39

Date: October 6, 2021

From: Hannibal Blandon, ALDA Inc.

Subject: Status Report on Water Level Monitoring throughout the Beaumont Basin through Sept 22, 2021

Recommendation: Presentation - No recommendation.

At the present time, there are 15 monitoring wells collecting water level information on an hourly basis at various locations throughout the basin. In addition, there are two monitoring probes collecting barometric pressures at opposite ends of the Beaumont Basin. The location of active monitoring wells is depicted in the attached Figure No. 1.

Water levels at selected locations are depicted in Figures 2 through 7 and are described as follows:

- ✓ Figure No. 2 – Water levels at YVWD Well No. 34 and Oak Valley Well No. 5 are considered representative of basin conditions in the Northwest portion of the basin. Through the summer of 2019 water levels at these two wells have been fairly steady; however, over the two years a significant decline has been observed. A 14-foot decline has been recorded at YVWD 34 over this period. The decline at Oak Valley 5 has been steeper with a drop 24 feet in 2020 despite of the fact that this well has not been pumped since the fall of 2019. This monitoring well is no longer monitored and it has been destroyed.
- ✓ Figure No. 3 – Two of the Noble Creek observation wells are presented in this figure representing the shallow and deep aquifers. From the summer of 2016 through the spring of 2018, the water level in the shallow aquifer monitoring well increased over 90 feet to an elevation of 2,422 ft. Water level continued to increase, although at a lower rate, over the ensuing 18 months reaching a peak elevation of 2,431 ft in the fall of 2019. Since it has declined 39 feet to the current elevation of 2,392 ft. In the deeper aquifer, the increase in water level was steady from the summer of 2016 through the spring of 2020 reaching a peak elevation of 2,302 ft.; a decline of 25 feet has been recorded since to the current elevation of 2,277 ft.
- ✓ Figure No. 4 – Southern Portion of the Basin. Water level at the Summit Cemetery well is highly influenced by a nearby pumping well that is used to irrigate the cemetery grounds. The water level at this well continues to fluctuate over a 20-foot band. Conversely, the water level at the Sun Lakes well has fluctuated minimally over the same period and it is currently five feet lower than the level recorded in the summer of 2015.

- ✓ Figure No. 5 illustrates water levels at three wells owned by the City of Banning in the Southeast portion of the basin. While water level at the Old Well No. 15 (Chevron Well) has been fairly flat over the last six years, a somewhat significant and steady decline, close to 41 feet, has been recorded at Banning M-8 between the summer of 2015 and the current summer to its current elevation of 2,039 ft. Water level at Banning M-9 has fluctuated in a 19-foot range, between 2,128 ft and 2,147 ft. since monitoring began in the summer of 2015. Since the beginning of the year, the water level at this well has declined 11 feet to the current elevation of 2,128 ft. Before the summer, a replacement communications cable, provided by Solinst Canada, was installed at Banning M-9 since the existing communications cable was not working due to the presence of moisture. The replacement cable is now not working for the same reason and will be replaced in the near future.
- ✓ Figure No. 6 illustrate recorded water level at BCVWD No. 2 and BCVWD No. 25. Water levels at these two wells follow seasonal pumping patterns peaking in the spring to begin a gradual decline into the fall to later recover again. In 2021, the water level has not recovered as much as it did in previous years. Fluctuations in level at BCVWD No. 2 are highly influenced by BCVWD No. 3, which is located less than a block away.
- ✓ Figure No. 7 depicts the recorded water level at the two newest observation wells, BCVWD No. 29 and Tukwet Canyon Well "B". BCVWD No. 29 is a pumping well that is now more actively used to meet peak summer demands. A decline in water level of nine feet has been recorded at this well since monitoring began in the spring of 2019. During our previous visit, the communications cable could not be pulled and information from the water level probe could not be downloaded as reported in the August meeting. Tukwet B is a dedicated monitoring well in the southern portion of the basin with minimal fluctuations in levels since the probe was installed in the spring of 2019.

New Monitoring Wells

No additional monitoring wells were added during this reporting period.

New Equipment Installation

- None

Troubleshooting Issues

The following malfunctioning issues were encountered during our field visit last month.

- ✓ Banning M-9. The communications cable was replaced earlier in the summer due to presence of moisture at the lower end of the cable. Moisture at this end results in a failure to communicate. The replacement cable, installed during our previous visit is having the same moisture problem. The cable manufacturer, Solinst Canada, will be contacted next week to address this issue once again.

New Monitoring Sites

Due to the current pandemic, all communications with owners of potential well sites have stalled. We will restart communications in the future as the country gradually goes back to normal. The following sites are being considered:

- ✓ Catholic Dioceses of San Bernardino-Riverside counties, near Rancho Calimesa Mobile Home Park has three abandoned wells. Two of these wells cannot be used at this time because the probe could not be lowered; however, the third site has great potential. This well is approximately 400 ft deep and the water level is at approximately 160 feet below ground.
- ✓ Sharondale Well No. 1 – This well is operated by Clearwater Operations. We initiated contact with this company to install a water level probe at this well, but progress has not been made.
- ✓ At Plantation by the Lake, another potential monitoring well site, communications with owner have not be reestablished.

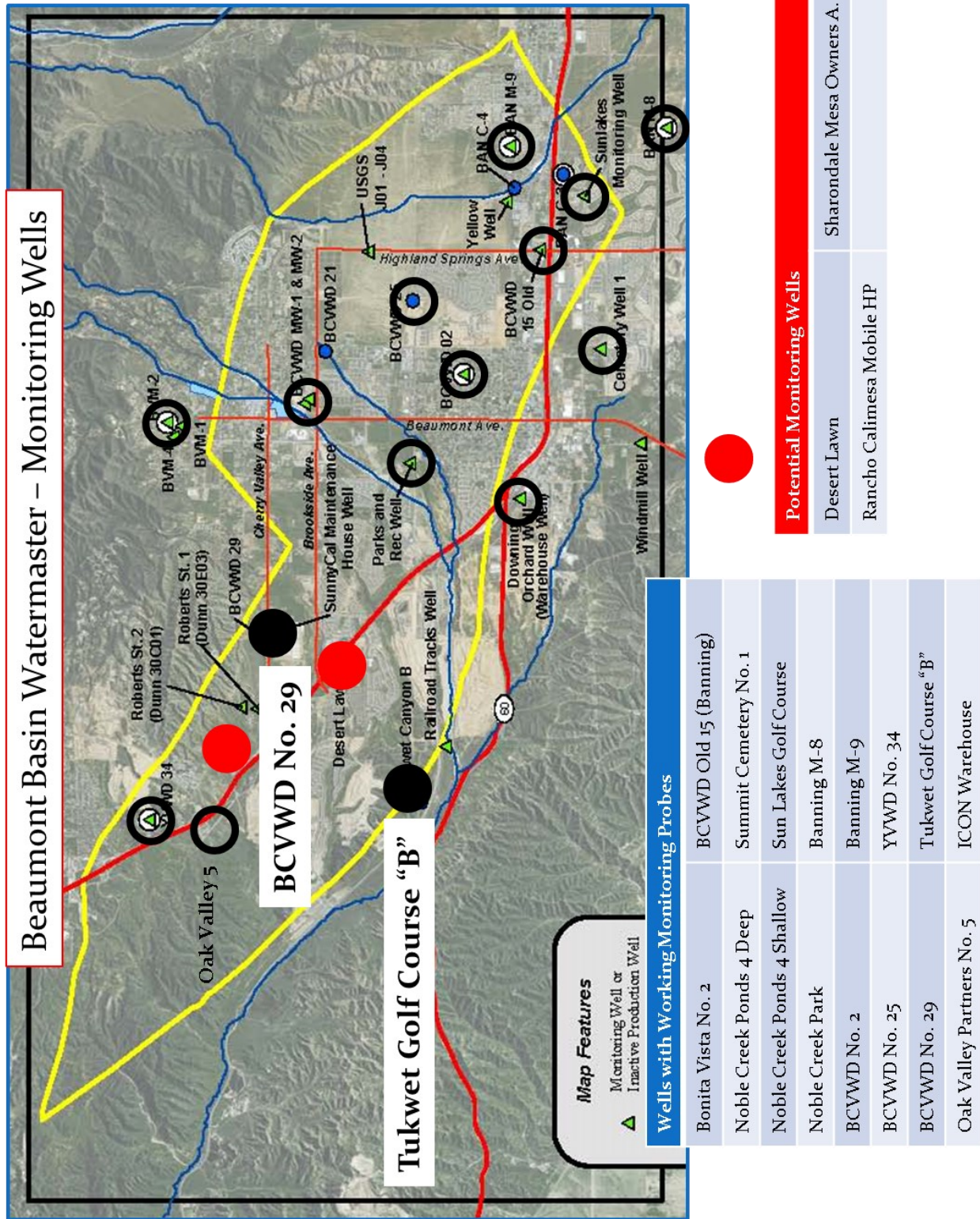


Figure No. 2
Static Groundwater Elevations at YVWD No. 34 and Oak Valley No. 5
 (July 29, 2015 through Sept 22, 2021)

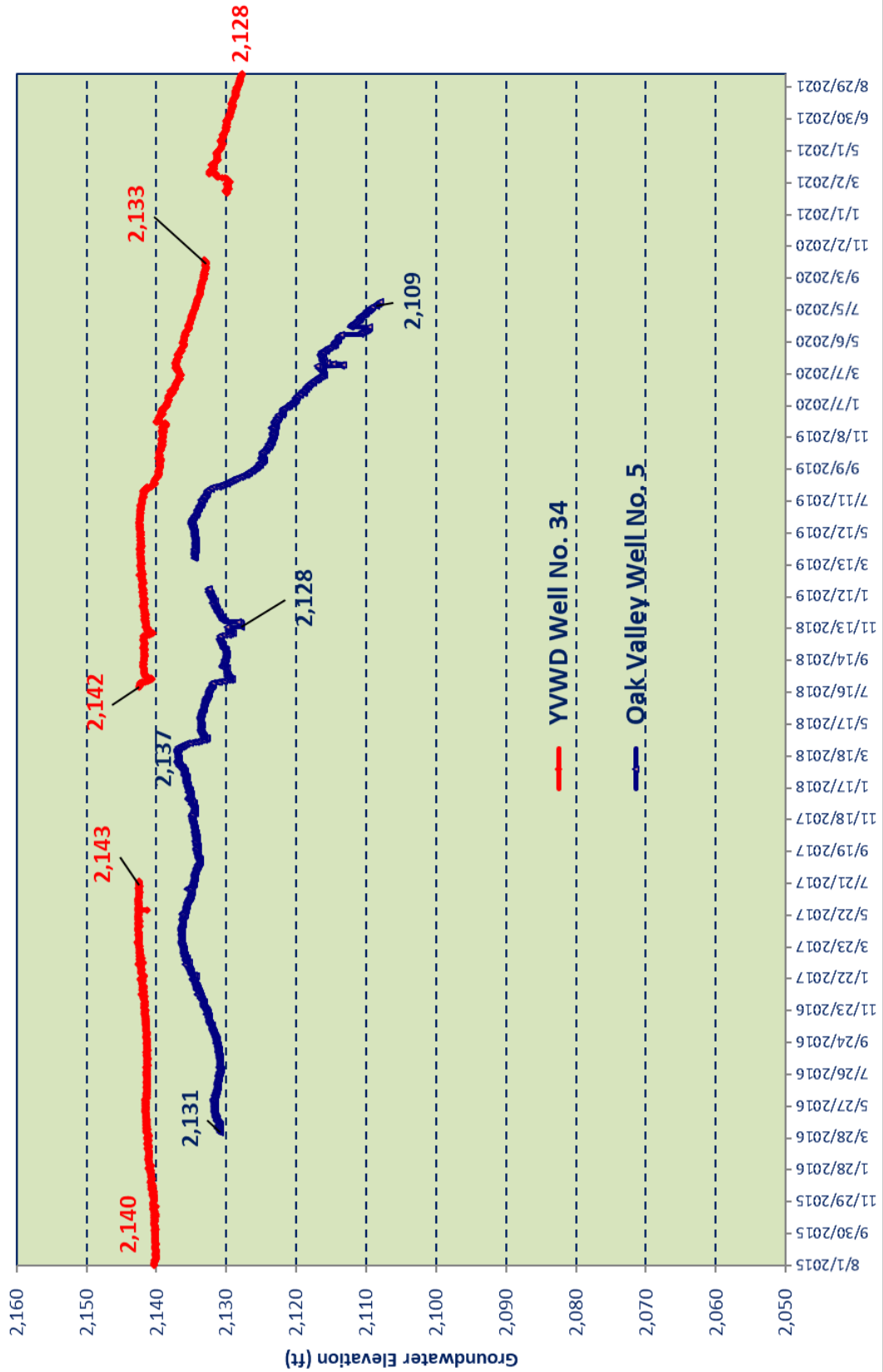


Figure No. 3

Static Groundwater Elevations at Noble Creek Obs. Well 4S and 4D

(May 28, 2015 through Sept 22, 2021)

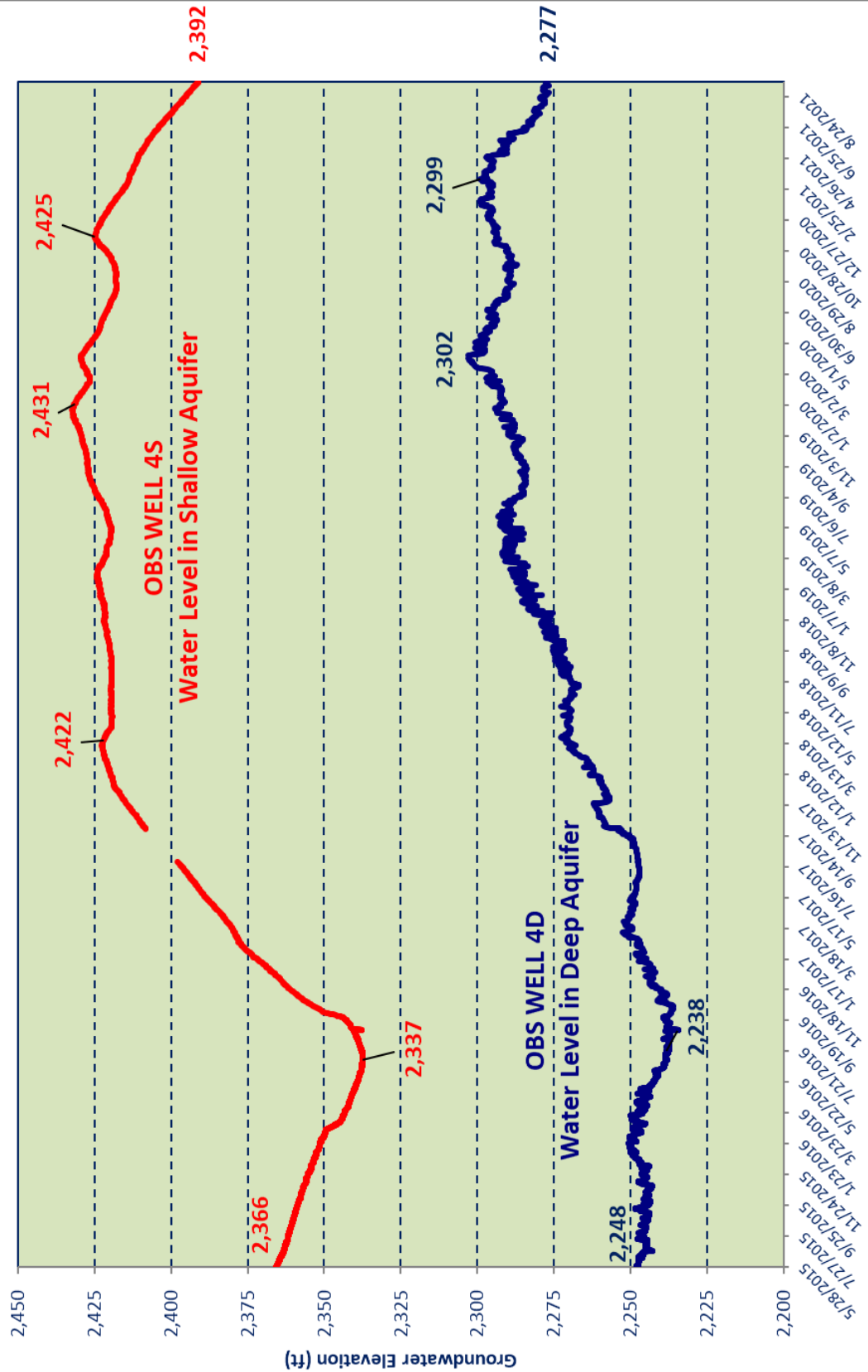


Figure No. 4
Static Groundwater Elevations at Summit Cemetary and Sun Lakes Wells
 (May 28, 2015 through Sept 22, 2021)

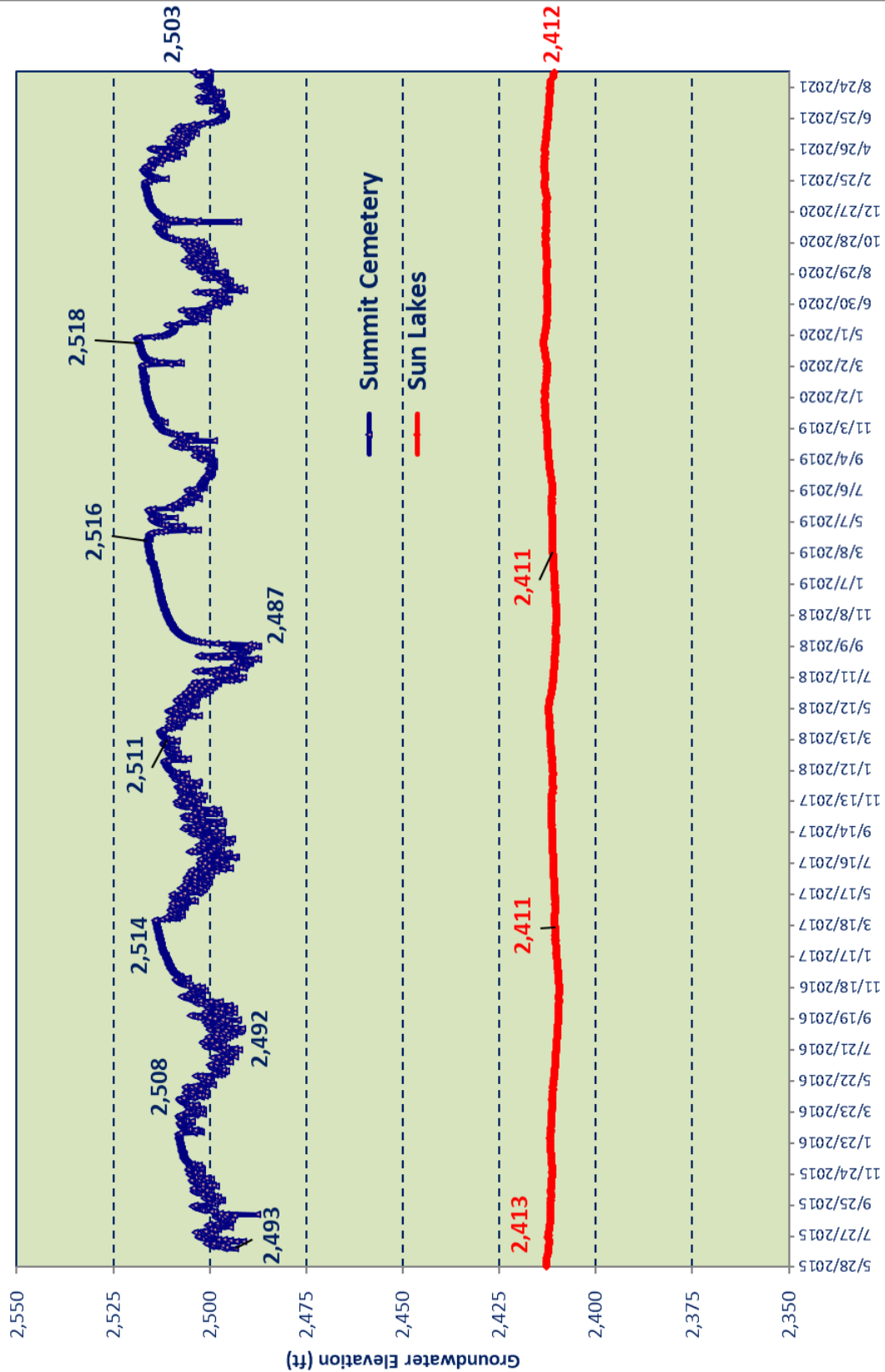


Figure No. 5
Static Groundwater Elevations in the Banning Area
 (May 28, 2015 through Sept 22, 2021)

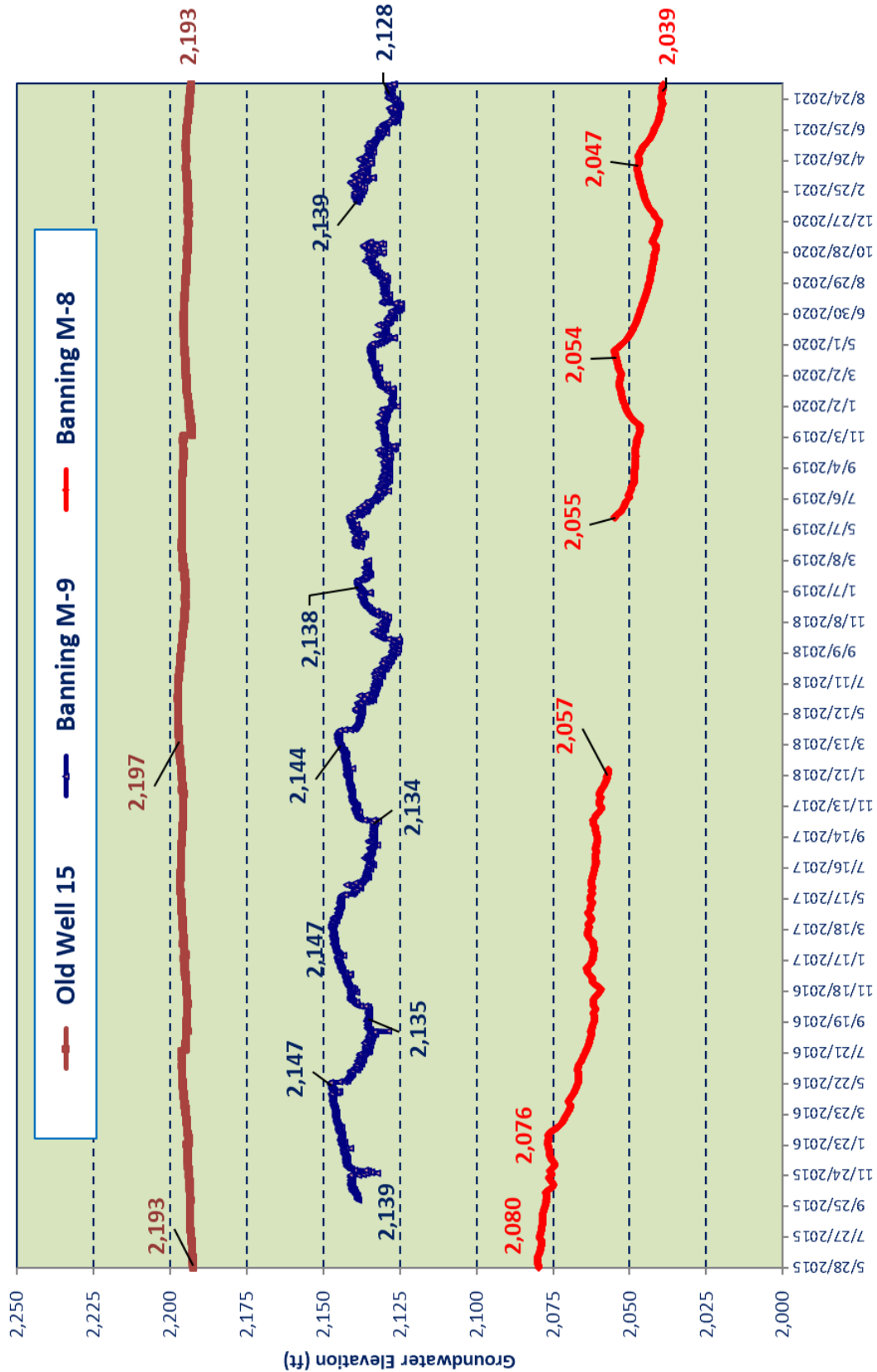


Figure No. 6
Static Groundwater Elevations at BCVWD Wells No. 2 and 25
 (May 28, 2015 through Sept 22, 2021)

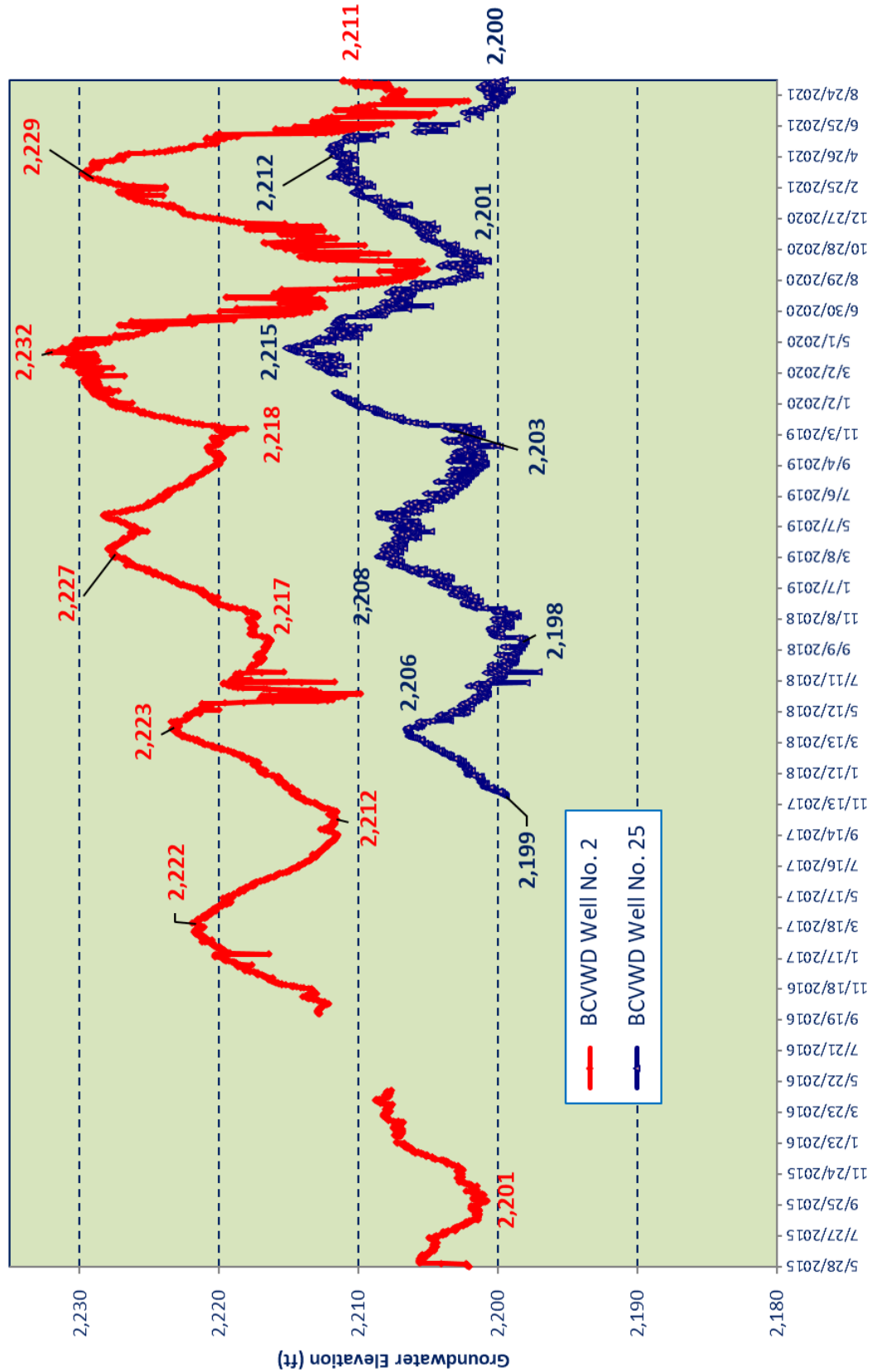
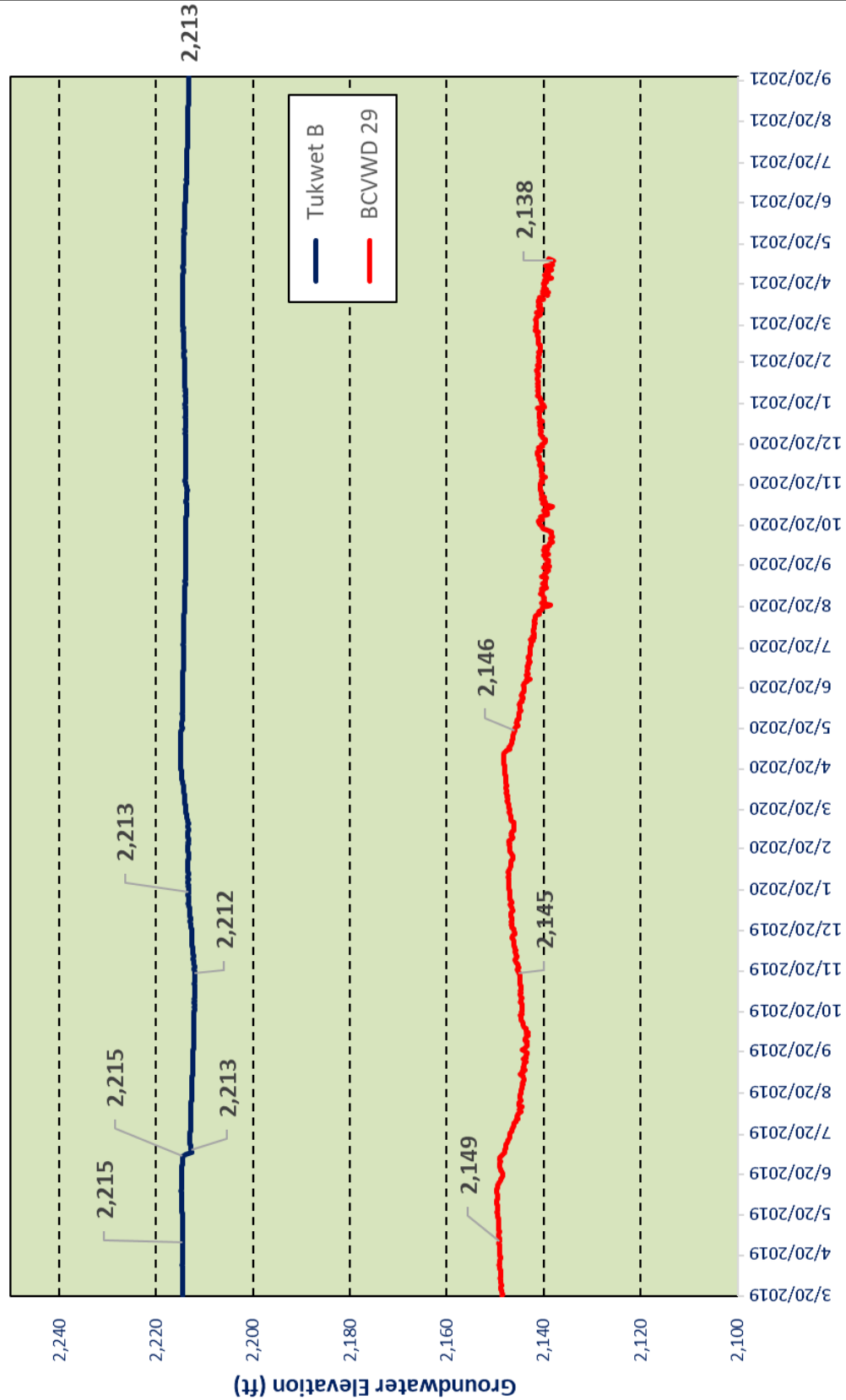


Figure No. 7
Static Water Level at BCVWD No. 29 and Tukwet Cyn Well B
 (Mar 20, 2019 through Sept 22, 2021)



BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 21-40

Date: October 6th, 2021

From: Hannibal Blandon, ALDA Inc.

Subject: A Comparison of Production vs Extraction Credits through August 2021

Recommendation: No recommendation - For informational purposes only

This Technical Memorandum presents a comparison of extraction rights from the Basin against actual production by Appropriators. At the beginning of each year, Appropriators have certain Extraction Credits resulting from: a) unused production by overlying users from 2016 and/or b) permanent transfers of overlying water rights. Extraction credits for individual Appropriators can be increased through the course of the year by spreading imported water.

Total production by Appropriators for the first eight months in 2021 was 12,079 ac-ft while extraction credits for the same period were 6,671 ac-ft resulting in an overall deficit of 5,462 ac-ft, as presented in the table below. Appropriators can address their individual deficits by spreading additional imported water or by drawing from their storage accounts whose totals (as of the end of 2020) are presented at the bottom of the table. Appropriators that produce less than their individual extraction credits can add the positive difference to their storage accounts at the end of the Calendar Year. As of the end of August, SMWC is the only Appropriator that has a positive difference in extraction credits.

	City of Banning	Beaumont Cherry Valley W. D.	South Mesa Mutual W. C.	Yucaipa Valley W. D.	Total
Transfer of Overlying Rights from 2016	1,497	2,025	594	647	4,763
Transfer of Overlying Rights - OVP to YVWD	0	0	0	183	183
Imported Water	0	1,671	0	0	1,671
Total Extraction Credits	1,497	3,696	594	830	6,617
Production	2,242	8,699	272	866	12,079
Credits Balance	(-745)	(-5003)	322	(-36)	(-5,462)
Water in Storage as of Dec 2020	50,889	39,750	10,134	16,288	117,533

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 21-41

Date: October 6, 2021

From: Hannibal Blandon, ALDA Inc.
Thomas Harder, Thomas Harder & Co.

Subject: Storage Accounting Issues – Preliminary Framework

Recommendation: Presentation of Issues - No recommendation

Since the adjudication of the Beaumont Basin in 2003, Appropriators in the basin have accrued water in their respective storage accounts as a function of initial provisions in the Judgment, the Beaumont Basin Rules and Regulations, and the Safe Yield of the Basin. The initial provisions of the Judgment assigned to the Appropriators consisted of an allocation of 16,000 ac-ft/yr of water designated as “Controlled Overdraft and Supplemental Water Allocation”. This allocation was assigned in each of the first 10 years of the Judgment for a total of 160,000 ac-ft. In addition, unused Overlier pumping, as assessed relative to the Safe Yield of the Basin, is also credited to Appropriator accounts based on a five-year delay. Appropriators can also augment their storage accounts by spreading imported water in the basin. Permanent transfers of Overlying rights to Appropriators also contribute to the enhancement of groundwater in storage.

Appropriator pumping, when assessed against the available water rights and credits, has resulted in the accumulation of over 117,000 ac-ft of water in combined storage accounts as of the end of 2020. Initially, a combined total of 200,000 ac-ft of storage capacity was designated for conjunctive use; this amount has been increased over the years to the current total of 290,000 ac-ft.

It has been noted that the physical change in groundwater storage in the Beaumont Basin, as inferred from groundwater level hydrographs and documented in previous annual reports, appears to be inconsistent with the balance of water in Appropriator storage accounts. There are numerous factors that impact the amount of water physically in storage in the basin including imported water, pumping, and hydrology. We recommended, and the Board agreed, to conduct a more detailed comparison of the Appropriator Storage Account Balance and estimates of the physical change in storage and develop a framework of the issues to be addressed. Questions for consideration in the analysis included:

- ✓ What is the estimate of the physical change in groundwater in storage in the basin between 2003 and 2020 and how does that compare to the accrued Appropriator storage accounts?
- ✓ What are the implications of any discrepancy?
- ✓ Are physical storage imbalances uniform across the basin?
- ✓ What role do losses have in any discrepancies?

At the October Board meeting, we will document groundwater production since the early 1990s as well as historical transfers of unused Overlying pumping to Appropriators, imported water spreading and their impact on storage accounts.

In addition, we will present the framework issues that have been identified in this initial evaluation. They are as follows:

- ✓ Recharge Imbalance between the western and eastern portions of the basin
- ✓ Storage account balances appear to be inconsistent with evidence of the physical storage in the basin
- ✓ Current storage accounting does not account for storage losses from the basin

Finally, we will present recommended next steps to address issues identified in the preliminary analysis.

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 21-42

Date: October 6, 2021

From: Hannibal Blandon, ALDA Inc.

Subject: Consideration of Change Order No. 1 for Task Order No. 26 for the Development of a Framework to Address Storage Accounting Issues

Recommendation: That the Watermaster Committee considers approving Change Order No. 1 to Task Order No. 26 for the sum not to exceed \$20,000.00 and to direct the Treasurer to invoice specific Appropriators based on anticipated benefits.

At the June 2, 2021, the Watermaster Committee approved the creation of a new Task Order No. 26 to develop a framework that addresses potential storage account issues and storage losses in the Beaumont Basin. A budget of \$10,000.00 was approved for the development of this initial framework.

In the Technical Memorandum and associated Board presentation for Task Order No. 26, we presented the work conducted under the initial groundwater storage assessment and identified several issues that need to be further investigated. The issues identified were:

- ✓ Recharge imbalance between the western and eastern portions of the basin
- ✓ Storage account balances were inconsistent with evidence of the physical storage in the basin
- ✓ Accounting of storage losses from the basin

Additional steps identified included the following:

- ✓ Conduct additional workshops (3) to further articulate the issues identified in the initial storage assessment
- ✓ Evaluate alternatives to spread supplemental water (stormwater, imported water, and/or recycled water) on the western portion of the basin
- ✓ Evaluate a methodology to account for supplemental storage losses in the basin

The development of a formal scope of services to address the issues identified in the initial evaluation will highly depend on management discussions at the proposed workshops.

In order to continue assessing the issues identified in the framework, we would like the Watermaster Committee consideration of the following Task No. 2.

Task No. 2 – Prepare and conduct up to three management workshops to further discussed the groundwater storage issues identified

Under this task, we will prepare for and conduct up to three management workshops with the Appropriators and other interested parties. The purpose of the workshop(s) will be to:

- ✓ Further articulate and discuss the issues identified from the initial storage assessment
- ✓ Develop a prioritization of issues to be addressed
- ✓ Identify and discuss potential projects and management actions to address the issues
- ✓ Identify next steps toward addressing the issues, which could include (but not be limited to):
 - Identification of project concepts
 - Analysis of projects and management concepts
 - Development of an implementation plan

At the conclusion of the final workshop, we will prepare a Technical Memorandum that summarizes the workshop(s). The TM will describe the storage issues discussed, articulate the prioritization for addressing them, describe the potential conceptual projects and management actions to address the issues, and provide a summary of next steps. The TM will also provide a scope of work and cost estimate to implement one or more of the next steps identified from the workshop(s) and as requested by the Watermaster Committee.

Estimated consulting hours: 72 hours

Estimated consulting cost: \$13,300.00

SCHEDULE

It is anticipated that the initial workshop will be conducted in early November 2021. The two additional workshops will be scheduled for early December and mid-January 2022 depending on participants availability.

CHANGE ORDER No. 1

The previous TM documented actual expenditures associated with the completion of the initial Task No. 1 at \$16,700.00, which exceeded the initial budget by \$6,700.00. The anticipated effort to complete Task No. 2 is estimated at \$13,300.00, as documented above. These combined figures amount to \$20,000.00 and represent the basis for this Change Order No. 1. If approved, the revised upper limit for Task Order No. 26 will be increased to \$30,000.00.

Hourly rates for work conducted through December 31, 2021 will be based on the rate schedule listed below which has been in effect since 2016 under the current contract. A revised rate for work to be conducted in 2022 will be provided at the December 1, 2021 board meeting.

Beaumont Basin Watermaster
Billing Rates for Task Order No. 26

Billing Rates for ALDA Inc.

Billing rates for Task Order No. 26:

Position	Hourly Rate
Project Manager	\$180.00
Project Engineer	\$150.00

Billing Rates for Thomas Harder and Company

Billing rates for Task Order No. 26:

Position	Hourly Rate
Principal Hydrogeologist	\$180.00
Senior Hydrogeologist	\$140.00
Project Hydrogeologist	\$120.00
Staff Hydrogeologist	\$ 95.00
Field Technician	\$ 70.00
Graphics	\$ 85.00
Clerical	\$ 65.00
Expert Witness	\$360.00