

Notice and Agenda of a Meeting of the Beaumont Basin Watermaster

Wednesday, February 5, 2020 at 10:00 a.m.

Meeting Location:

Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223
(951) 845-9581

Watermaster Members:

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

I. Call to Order

II. Roll Call

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

City of Beaumont: _____ (Alternate: Kyle Warsinski)

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 December 4, 2019 [Page 4 of 37]

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. Reorganization of the Beaumont Basin Watermaster Committee - Chairman, Vice-Chairman, Secretary, and Treasurer [Memorandum No. 20-01, Page 14 of 37]

B. Consideration of the Watermaster Budget for Fiscal Year 2019-2020 and Fiscal Year 2020-2021 [Memorandum No. 20-02, Page 15 of 37]

C. Status Report on Water Level Monitoring throughout the Beaumont Basin through January 23, 2020 [Memorandum No. 20-03, Page 17 of 37]

Recommendation: No recommendation.

- D. A Comparison of Production and Allowable Extractions through December 2019 [Memorandum No. 20-04, Page 27 of 37]

Recommendation: No recommendation - For informational purposes only.

- E. Consideration of Change Order No. 2 for Task Order No. 17 for the Development of a Return Flow Methodology for the Beaumont Basin. [Memorandum No. 20-05, Page 28 of 37]

Recommendation: That the Watermaster Committee approve Change Order No. 2 to Task Order No. 17 for the sum not to exceed \$27,850.00 and to direct the Treasurer to invoice specific Appropriators based on anticipated benefits.

- F. 2019 Annual Report Status and Rescheduling [Memorandum No. 20-06, Page 34 of 37]

Recommendation: That the Board considers moving the April meeting to its regular schedule on the first Wednesday of the month

- G. 2018 Consolidated Annual Report and Engineering Report – Presentation of Final Report [Memorandum No. 20-07, Page 35 of 37]

Recommendation: That the Watermaster Committee adopts the Final 2018 Consolidated Annual Report and Engineering Report.

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 of return flow credit and how it might be managed.

IX. Comments from the Watermaster Committee Members

X. Announcements

- A. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, March 25, 2020 at 10:00 a.m.
- B. Future Meeting Dates:
 - i. Wednesday, June 3, 2020 at 10:00 a.m.
 - ii. Wednesday, August 5, 2020 at 10:00 a.m.
 - iii. Wednesday, October 7, 2020 at 10:00 a.m.
 - iv. Wednesday, December 2, 2020 at 10:00 a.m.
 - v. Wednesday, February 3, 2021 at 10:00 a.m.

XI. Adjournment

Consent Calendar

DRAFT
**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, December 4, 2019**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

I. Call to Order

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

II. Roll Call

<i>City of Banning</i>	<i>Arturo Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Kyle Warsinski</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>Dave Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba</i>	<i>Present</i>

Thierry Montoya was present representing legal counsel for the Beaumont Basin Watermaster (BBWM). Hannibal Blandon and Ben Lewis were present as engineers for the BBWM.

Staff present were: Mark Swanson, James Bean, Daniel Baguyo and Erica Gonzales from BCVWD.

Members of the public who registered and / or attended were: John Covington and William Wood.

III. Pledge of Allegiance

Chairman Vela led the pledge of allegiance.

IV. Public Comments:

Mr. William Wood of the Sharondale Homeowners Association advised the Committee there are 220 homes in the development with two wells and one tank. He explained that the development has come close to using its water allotment of 200 acre-feet (AF) and has cut back, but has now been told they no longer have 200 AF. He asked who has the authority to take the water away from the residents, and why. Mr. Wood said he has been advised that if the area does not cut back its water use to 154 AF they will be fined, and water

use is increasing. He posited that this is unfair. Any fine for usage over 200 AF would be understood, he said, but legally there is documentation for 200 AF. No legal documentation has been presented to the community. He requested an answer, including reasons other than new development.

Counsel Montoya said he would look into it and contact Mr. Wood.

V. Consent Calendar

It was moved by Member Zoba and seconded by Member Jaggars to approve the Meeting Minutes of the following dates as amended:

1. Meeting Minutes for October 2, 2019

AYES:	Jaggars, Armstrong, Vela, Warsinski, Zoba
NOES:	None.
ABSTAIN:	None.
ABSENT:	None.
STATUS:	Motion Approved

VI. Reports

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

No report.

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

Mr. Lewis updated the Committee on the development of the Return Flow Accounting Methodology using individual water delivery accounts. He reminded the Board about Change Order #1 for out-of-scope work to tie 10,626 water accounts to APNs. He presented the requested detail on the accounts: 3,760 from BCVWD, 6,866 from Banning.

Substantial comments were received on the draft Tech Memo submitted at the last meeting, Lewis reported, and a Change Order will be submitted to address them. He said the Tech Memo will be available at the next meeting.

Mr. Blandon added that Harder and Associates is in the process of preparing an additional scope of services to address additional Committee requests. It will be submitted in February.

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

Mr. Montoya reported that a draft court motion was prepared for a new member and alternate for the City of Beaumont and is still waiting for declaration.

Discussions were held with Dan Jagers and Joe Zoba regarding the Form 5 and reporting of water that has been transferred pursuant to Oak Valley Partners transfer agreement to Yucaipa Valley, and Mr. Blandon's accounting of acre-feet transferred in 2018, and the proposal to transfer all in 2018 as opposed to the balance of the water rights in 2019 based on the execution date and terms set forth in Form 5. Discussion will be held under Item VII - F – Annual Report.

VII. Discussion Items

- A. Status Report on Water Level Monitoring throughout the Beaumont Basin through November 19, 2019

Recommendation: No recommendation.

Mr. Blandon advised there have been no changes on the number of monitoring wells. Minimal change has been recorded at the northwest portion of the basin, however Oak Valley No. 5 continues to decline over the last few months even though it has not been used for two months.

Downstream of the Noble Creek spreading basins, water levels continue to rise, he said. No changes were reported at the southwest portion of the basin, but some decline was noted at the Summit Cemetery wells due to localized pumping, he said.

M8 in Banning has declined 33 feet since 2015 and continues to decline. Banning M9 has been flat. Blandon reminded the Board that he reported a 3-foot drop at Tukwet coinciding with the Ridgecrest earthquake however there were no earthquakes in this area reported by USGS at that time.

Mr. Jagers added that BCWVD has returned to wintertime operation at Well 29 and is trying to control the mound on the east side of the basin.

- B. A Comparison of Production and Allowable Extractions through October 2019

Recommendation: No recommendation - For informational purposes only.

Mr. Blandon presented a comparison of production vs. rights in 2019. A significant amount of water (11,500) has been imported by BCWVD, he said. The City of Banning has exceeded its production rights and is at 118 percent of its allotment.

South Mesa is at 55 percent, and YVWD is at about 56 percent, Blandon reported. Member Vela noted that normally Banning's production is lower, but several wells were down this year.

C. Independent Accountant's Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster

Recommendation: That the Watermaster Committee receives and files the Independent Accountant's Financial Report for the period ending June 30, 2019.

Mr. Zoba presented the annual financial review of the records of the Treasurer and pointed out a typo on the second page. He noted that expenses and revenues have tapered but much of it is based on timing of annual reports and how consultant work rolls over from one fiscal year to the next. He recommended receiving and filing the report.

It was moved by Member Jaggars and seconded by Chair Vela to receive and file the Independent Accountant's Financial Report for the period ending June 30, 2019 and approved by the following vote:

AYES:	Armstrong, Jaggars, Vela, Warsinski, Zoba
NOES:	None.
ABSTAIN:	None.
ABSENT:	None.
STATUS:	Motion Approved

D. Discussion Regarding Task Order No. 20 with ALDA Inc. for the Preparation of the 2019 Consolidated Annual Report, Estimate of the Basin Safe Yield, Update of the Groundwater Model, and Associated Consulting Services for 2020.

Recommendation: That the Watermaster Committee approve Task Order No. 20 for a sum not to exceed \$95,970.

Mr. Blandon reminded the Committee that this is a new task including basic services provided to the Watermaster. This is the same cost as the last two years, Blandon noted. There are no changes in the scope of work and no change in fees.

It was moved by Member Jaggars and seconded by Member Warsinski to approve Task Order No. 20 for a sum not to exceed \$95,970 and was approved by the following vote:

AYES:	Armstrong, Jaggars, Vela, Warsinski, Zoba
NOES:	None.
ABSTAIN:	None.
ABSENT:	None.
STATUS:	Motion Approved

E. Discussion Regarding Task Order No. 21 with ALDA Inc. for the Installation, Maintenance and Data Collection of Water Level Monitoring Equipment in 2020

Recommendation: That the Watermaster Committee approves Task Order No. 21 for a sum not to exceed \$ 21,520.

Mr. Blandon explained the task providing services for data collection for up to 18 wells and reporting to the Watermaster. This is the same cost as the last three years, he noted. The scope of work and costs are the same.

It was moved by Member Jaggars and seconded by Member Armstrong to approve Task Order No. 21 for a sum not to exceed \$ 21,520 and was approved by the following vote:

AYES:	Armstrong, Jaggars, Vela, Warsinski, Zoba
NOES:	None.
ABSTAIN:	None.
ABSENT:	None.
STATUS:	Motion Approved

F. Status Report of the 2018 Annual Report

Recommendation: That the Watermaster Committee provides direction as to the completion of the 2018 Annual Report.

Mr. Blandon reminded the Committee of discussion on transfer of water rights from Oak Valley Partners to Yucaipa Valley Water District (YVWD) and changes in documentation of transfers per Resolution 2019-02. These issues have delayed the completion of the annual report, he stated. To complete the report and document actions and events that occurred, Blandon recommended adjusting water rights retroactively in 2019 or 2020.

Chair Vela noted the recommendation is for Committee direction in order to finalize the report, although there may be other related discussion items.

Mr. Montoya said that he was advised by Mr. Jaggars of concern regarding a Form 5 that indicated YVWD would be taking credit for all of the overlying parties' rights in 2018. Montoya and Zoba discussed the Form 5 and its intent for the overlying party to transfer all remaining water rights in bulk at once, he said. Foundationally, Montoya continued, an overlying party may divest themselves of an interest in their rights

to another party as long as it is clearly manifest. Also, this is a contract where the parties' intent is clearly set forth, is not ambiguous, and there is a trigger point.

Mr. Montoya indicated problems with the Form 5 document and said he does not think it properly serves the parties' intents: instead of incremental transfers, to transfer all water now. The document does not properly represent that intent as it is awkwardly written and is conditional. All the rights cannot be accounted for in 2018, he said, only 180.4 to date. The balance should be accounted for in 2019, he explained. Montoya said he does not understand how all the rights can be claimed in 2018 as it is a contrived interpretation of the agreement and it should be effective and enforceable.

Mr. Zoba asked Mr. Montoya why the Committee was advised to work through a Form 5 instead of adopting the annual report earlier this year with the partial transfer. The goal of the Watermaster is "to maintain an accounting of acquisitions by appropriators of water otherwise subject to overlying water rights as a result of the provision of water service by an appropriator," Zoba read, and said it is nothing more than an accounting body. He explained the agreement and stated that a Form 5 has been filed.

Mr. Jagers added that the Committee revised Form 5 and adjusted it back to only the judgment which allowed for the transfer of rights once water service was provided. Resolution 2017-02, Jagers continued, outlines the intent of the YVWD to transfer the rights of confirmed water service, which has not been discussed. He said he is not opposed to one way or another but there are four transfer letters that accumulate 180.4 AF until 2018 and now that Form 5 has been revised should be credited in the 2018 report. Mr. Jagers indicated he had contacted Mr. Montoya due to uncertainty and concern about procedure.

Resolution 2017-02 is about consolidating water rights onto specific parcels, Zoba noted. The process was questioned as not being consistent with the judgment, and that is what held up the report, he explained. The Committee has received a Form 5 and its job is to account for the water. Recommendations of the consultants do not properly account for it, Zoba added. Chair Vela noted detail of previous correspondence related to the water allocation which has been consistent with Reso 2017-02 and indicated the question was when the water would move from the earmarked column to the transferred column, not that there was opposition to the incremental listing of the transfers. He said the submitted Form 5 seemed to go against the process that the Committee had been following.

Member Zoba drew attention to Resolution 2019-02 which was written to be consistent with the judgment. That Reso plus Form 5 will now be used any time there is a transfer with no discussion; and that is how the 2018 annual report should be recorded, he said. Delaying will result in a 2018 report that overstates the amount of water Oak Valley gets.

Mr. Montoya noted that a Form 5 had already been agreed upon but had not been used. He said he did not have concerns about the incremental transfer because that was the intent of YVWD's original agreement. Transferring the balance is not a concern either, Montoya continued. Zoba objected. Discussion ensued.

Mr. Blandon pointed out that ultimately, YVWD would receive all its water rights and be made whole. He noted that the way the 2018 report is closed will affect 2019. In response to Member Zoba, Mr. Blandon advised that filing the 2018 report with figures subject to protest is inconsequential. He noted that this issue has been discussed for four or five meetings and is still unresolved. In the past, when changes have been made to previous reports, most have been related to production due to new or updated information, he noted. The report can reflect the receipt of a valid Form 5, and explanation. He agreed with Zoba that this is an accounting issue.

The decision to be made on what tables and figures to include in the report must be made by the Committee, as the report is the Watermaster's, Zoba pointed out. Mr. Warsinski indicated support for leaving the 2018 report as is and cleaning it up in 2019.

Mr. Montoya reiterated that the language of the submitted Form 5 should be clarified to correctly manifest the intent between the parties, but such changes cannot be made by the Committee, they must be made by the Parties.

Member Zoba moved to provide a letter from Mr. Ohanian of Oak Valley Partners stating his intention to transfer all water rights and finish the 2018 Report consistent with the Form 5 as filed and per John Ohanian's statement. There was no second to the motion.

Member Jagers noted that everything done to date is consistent with achieving resolution and crediting the 180.4 AF and suggested the report is ready for approval. Jagers reminded the Committee that BCVWD voted No on Resolution 2017-02 and noted that all action by YVWD's Board was a consistent approach. Now, the process seems out of synch, Jagers said. Chair Vela noted there were issues with the incremental approach, but the issues were worked through and the draft of the previous annual report was accepted. He said he does not agree with back-dating the submitted Form 5.

Chair Vela declared the motion failed due to lack of second and asked if there were further comments.

Mr. Jagers reviewed the recommendation that the Watermaster Committee provide direction to the consultant as to the completion of the 2018 Report.

It was moved by Chair Vela and seconded by Member Jagers to direct the consultant team to complete the 2018 annual Report documenting

issues and activities that took place during that calendar year. The motion was approved by the following vote:

AYES:	Armstrong, Jagers, Vela, Warsinski
NOES:	Zoba.
ABSTAIN:	None.
ABSENT:	None.
STATUS:	Motion Approved

Mr. Blandon clarified that the engineers would complete the report based on what happened in 2018, including the table and body using the 180.4 AF. The remainder will be applied to the tables in 2023 to the appropriators based on the percentage of their right. A footnote or paragraph will explain that this issue remains to be resolved and that YVWD would like to have the entire amount of 1,500 AF and this issue continues to be discussed in 2020 for inclusion in the 2019 report.

Mr. Blandon explained that this decision constitutes the basis for the 2019 report which will be presented approximately two months from now. The 2018 report will indicate that YVWD has 180.4 AF and in 2019 it will say the YVWD has an additional 1,100 AF or whatever the number might be, thus making YVWD whole.

Mr. Zoba suggested waiting for any further change to the Form 5 or receipt of additional correspondence to complete the 2019 draft. Mr. Jagers pointed out comment from Counsel Montoya that language on the submitted Form 5 needs to be revised to be an accurate statement. He stressed consistency and suggested a look back at Resolution 2019-02 and an agreed-upon procedure. Mr. Zoba stated that a Form 5 is filed, and it conforms to Resolution 2019-02 and the intent is there. The bottom line is that two outside parties agreed to transfer water. All needed to report back to the Committee is to file a Form 5, Zoba said.

Mr. Montoya indicated his concerns were for clarity and intent. He said the Form 5 submitted by YVWD has the entirety of Oak Valley Partners' overlying water rights but what is to be credited on October 9, 2018 is unclear from the document. Form 5 suits the purposes of the Committee and the language can be modified accordingly.

Chair Vela noted the agenda item has been satisfied although there are additional things to work out for the 2019 report.

VIII. Topics for Future Meetings

- A. Development of a methodology and policy to account for new yield from capturing local stormwater in the basin
- B. Development of a methodology and policy to account for groundwater storage losses in the basin resulting from the spreading of additional water sources

- C. Development of a methodology and policy to account for recycled water recharge
- D. Develop a protocol to increase the accuracy and consistency of data reported to the Watermaster
- E. Discussion of return flow credit and how it might be managed

IX. Comments from the Watermaster Committee Members:

None.

X. Announcements

- A. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, February 5, 2020 at 10:00 a.m.

XI. Adjournment

Chairman Vela adjourned the meeting at 11:30 a.m.

Attest:

DRAFT UNTIL APPROVED

Daniel Jagers, Secretary
Beaumont Basin Watermaster

Discussion Items

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 20-01

Date: February 5, 2019

From: Joseph Zoba, Treasurer

Subject: Reorganization of the Beaumont Basin Watermaster Committee - Chairman, Vice-Chairman, Secretary, and Treasurer

Recommendation: That the members of the Watermaster either reaffirm the existing officers or conduct nominations for the appointment of new officers of the Beaumont Basin Watermaster.

The purpose of this agenda item is to provide the Watermaster Committee members with the opportunity to reaffirm the existing officers or solicit nominations for the appointment of new officers for the organization.

The current officers are:

Chairman - Art Vela
Vice Chairman - George Jorritsma
Secretary - Dan Jagers
Treasurer - Joseph Zoba

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 20-02

Date: February 5, 2020

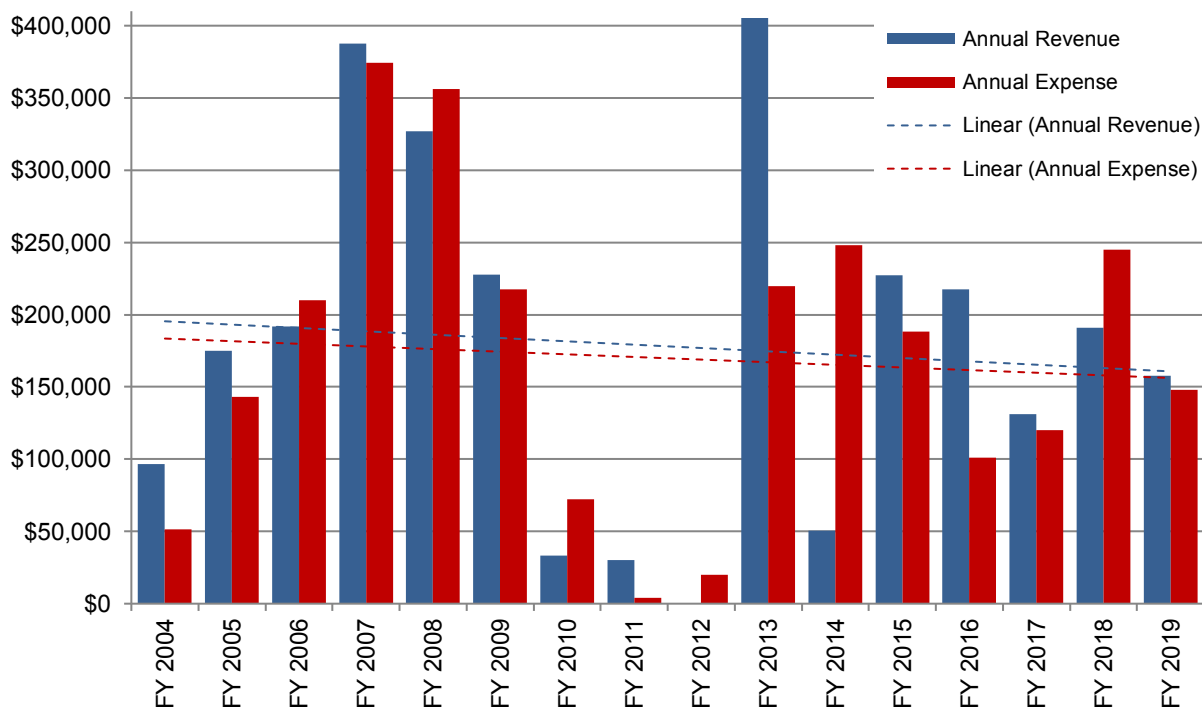
From: Joseph Zoba, Treasurer

Subject: Consideration of the Watermaster Budget for Fiscal Year 2019-2020 and Fiscal Year 2020-2021

Recommendation: That the Watermaster Committee approve the budget for Fiscal Year 2019-2020 and Fiscal Year 2020-2021.

The Treasurer of the Beaumont Basin Watermaster sends invoices to Watermaster Committee members when one of the following events occur: (1) the Watermaster Committee approve a task order; (2) The Watermaster Committee approves a special project; (3) when a budget is approved to replenish the anticipated administrative funds for the year; or (4) when the administrative funds have been depleted.

As of June 30, 2019, the Watermaster had an operating fund balance of \$144,902.30 in a designated account at Bank of America.



Based on the typical expenses incurred by the Beaumont Basin Watermaster, the estimated annual contribution for each member agency will be \$0 at this time for routine administrative expenses. However, the Watermaster Treasurer will continue the practice of sending invoices to Watermaster Committee members when specific task orders are approved throughout the fiscal year.

	Account Number	Expenses through December 2019	Proposed Budget for Fiscal Year 2019-2020
Bank Fees & Interest	5000	-\$27.02	\$50
Meetings & Miscellaneous	5010	\$0	\$250
Acquisition/Computation & Annual Report	5020	\$0	\$100,000
Annual Audit	5040	\$1,295	\$1,300
Engineering Services	5060	\$24,528	\$50,000
Monitoring & Data Acquisition	5063	\$35,076	\$50,000
Meter Installation and Repair	5064	\$0	\$10,000
Legal Expenses	5070	\$5,409	\$25,000
Reserves	5080	\$0	\$10,000
Total		\$66,281	\$246,600

	Account Number	Proposed Budget for Fiscal Year 2020-2021
Bank Fees & Interest	5000	\$50
Meetings & Miscellaneous	5010	\$250
Acquisition/Computation & Annual Report	5020	\$100,000
Annual Audit	5040	\$1,300
Engineering Services	5060	\$50,000
Monitoring & Data Acquisition	5063	\$50,000
Meter Installation and Repair	5064	\$10,000
Legal Expenses	5070	\$25,000
Reserves	5080	\$10,000
Total		\$246,600

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 20-03

Date: February 5, 2020

From: Hannibal Blandon, ALDA Inc.

Subject: Status Report on Water Level Monitoring throughout the Beaumont Basin through January 23, 2020

Recommendation: No recommendation.

At the present time, there are 16 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. Over the last four years, water level at YVWD No. 34 have ranged within three feet and currently are at the same elevation as in 2015. The drop in water level elevation observed in the figure is probably related to a hung cable in the well when the probe was last pulled during our November 2019 visit. Cable will be restore to its original depth after today's meeting.
- ✓ At Oak Valley No. 5 the water level declined by 11 feet over the last six months and approximately seven feet since recording started in the summer of 2016. Probe could not be accessed during our January visit.
- ✓ Figure No. 3 – Two of the Noble Creek observation wells are presented in this figure representing the shallow and deep aquifers. In the shallow aquifer, the water level has increased close to 90 feet over the last two years from a low of 2,337 ft. to 2,430 ft.; however, over the last year it has been fairly steady with minor increase in recent months. In the deep aquifer, water level has increased by 54 ft since the summer of 2016.
- ✓ 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 at the same level as when monitoring began in the summer of 2015.

- ✓ Figure No. 5 illustrates 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 two years, a somewhat significant and steady decline, close to 23 feet, was recorded at Banning M-8 between the summer of 2015 and the winter of 2017. The probe at Banning M-8 was removed in late January 2018 and was reinstalled this past May; since it has declined and additional 10 ft. hitting bottom at an elevation of 2,047 ft; a minor recovery of 5 ft has been recorded over the last two months. Water level at Banning M-9 has fluctuated in a 13-foot range, between 2,134 ft and 2,147 ft. since monitoring began in the summer of 2015. Currently, water elevation is at 2,130 ft.
- ✓ Figure No. 6 illustrate recorded water level at BCVWD No. 2 and BCVWD No. 25. Over the last two years, water levels are overall in an uptrend; however, they experience seasonal declines following production patterns. At the end of the summer pumping season, water levels at these wells declined by approximately seven feet, but seem to quickly recover in the last three months.
- ✓ 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. Water level at this well experienced a slight decline of 4 ft in the summer, but it is recovering now that this well is in winter-mode operation. Tukwet B is a dedicated monitoring well in the southern portion of the basin; water level at this well has been fairly stable over the last 10 months.

New Monitoring Wells

During the last reporting period, no additional monitoring wells have been added.

New Equipment Installation

None during the reporting period.

Troubleshooting Issues

The following malfunctioning issues were encountered during our August 1, 2019 field visit:

- ✓ Banning M-9 – Communications cable continues not to communicate with water level probe. A new communications cable will be ordered for this well since we have not been able to extract the data for the last six months.

- ✓ Oak Valley No. 5 – Communications cable is not transmitting information at this time; well site will be visited after today's meeting.

New Monitoring Sites

- The property owned by the 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.
- We have approached Clearwater Operations to consider the installation of a water level probe at Sharondale Well No. 1. This company provides maintenance and operations support to Sharondale HOA. We are in the process of coordinating a field visit to assess the feasibility of installing the probe.
- At Plantation by the Lake, another potential monitoring well site, communications with owner have not be reestablished.

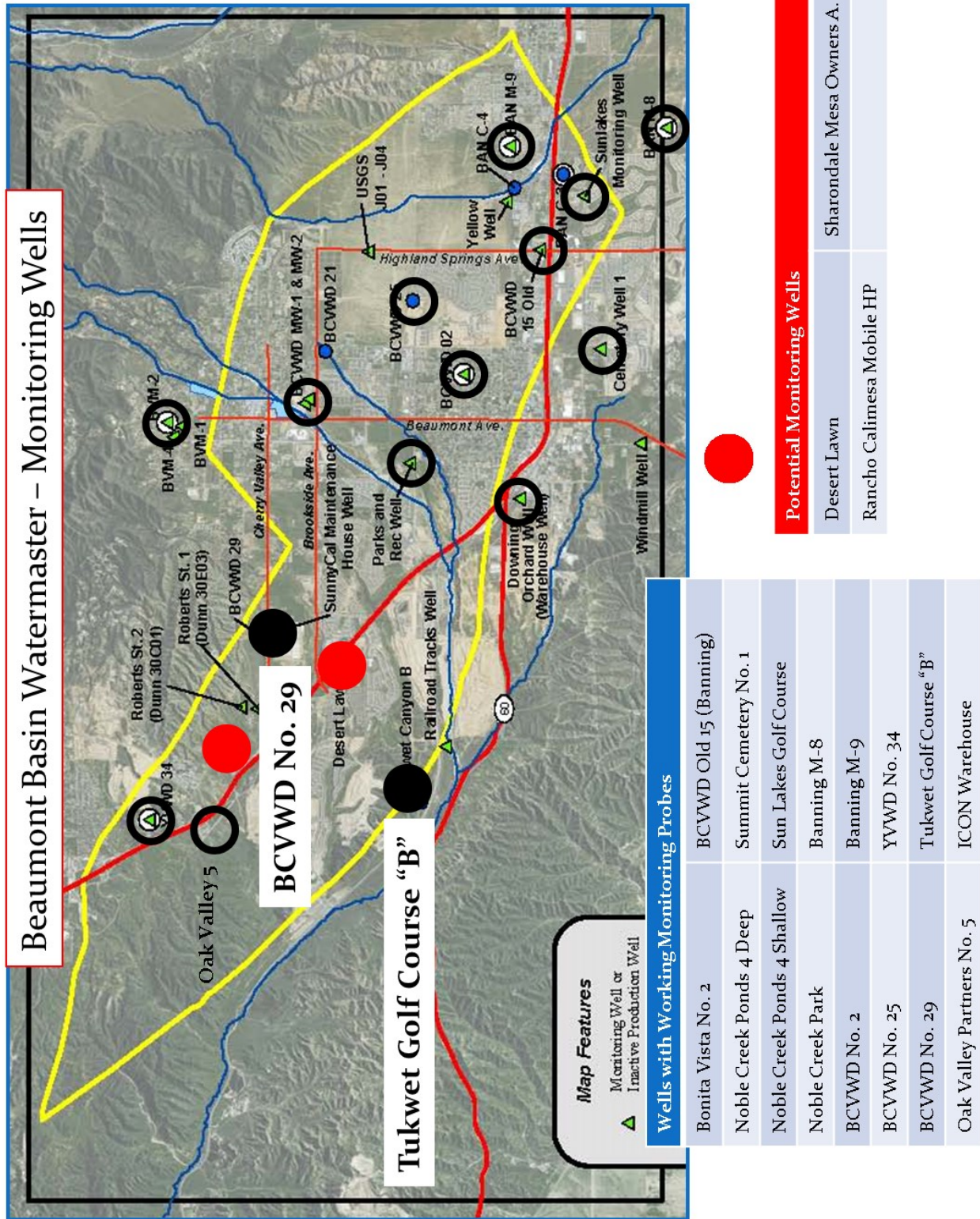


Figure No. 2
Static Groundwater Elevations at YVWD No. 34 and Oak Valley No. 5
 (July 29, 2015 through Jan 23, 2020)

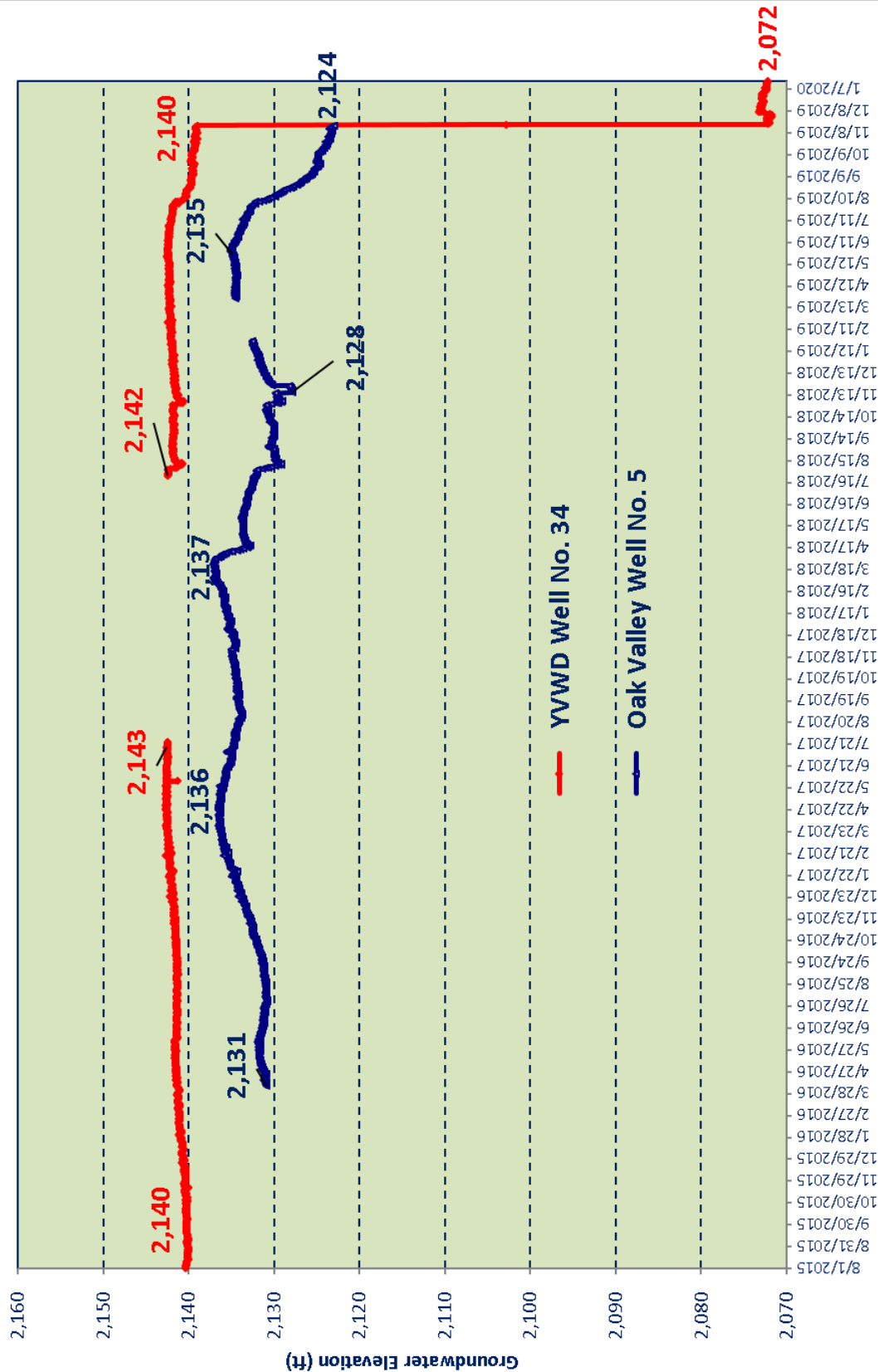


Figure No. 3
Static Groundwater Elevations at Noble Creek Obs. Well 4S and 4D
 (May 28, 2015 through Jan 23, 2020)

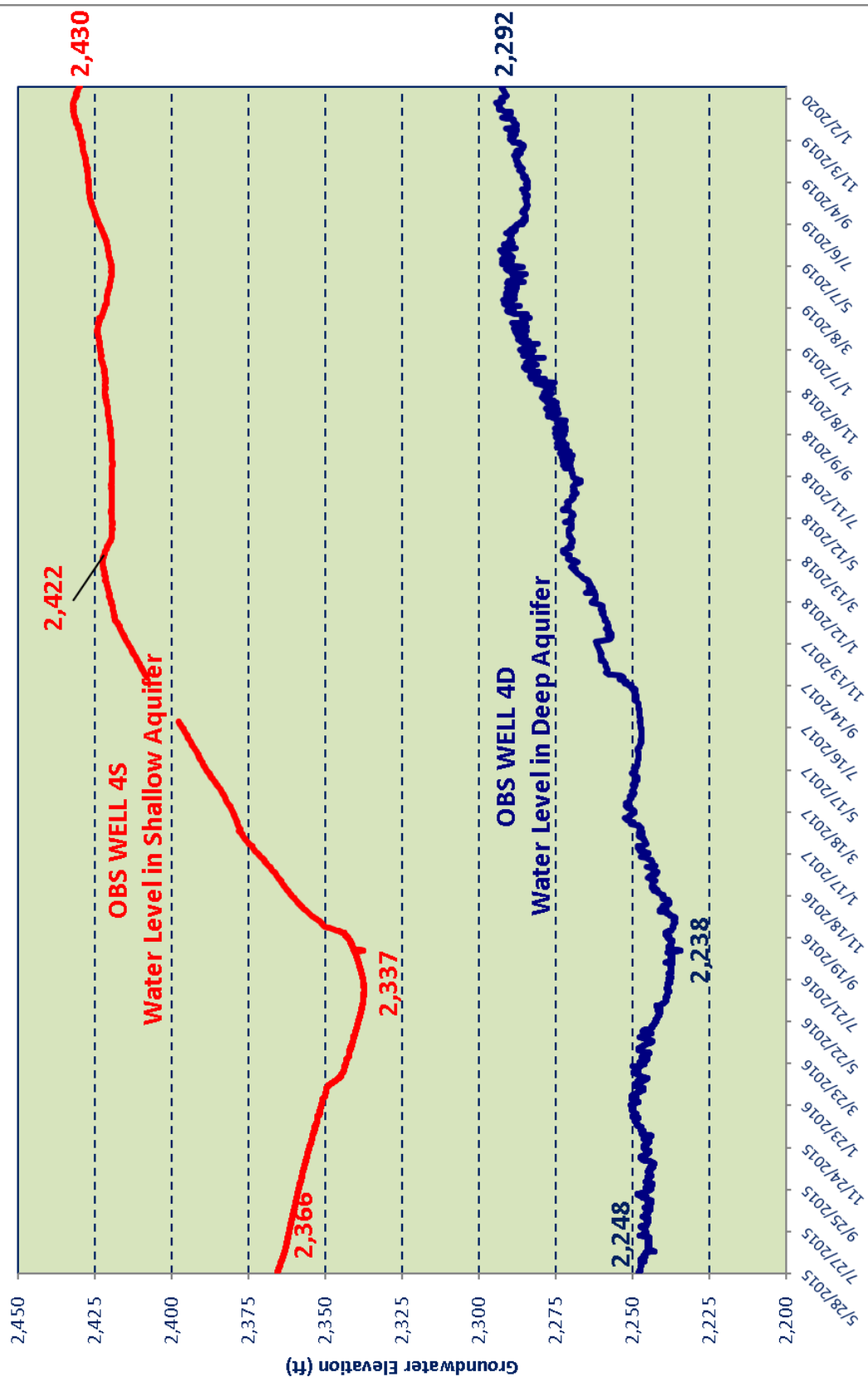


Figure No. 4
Static Groundwater Elevations at Summit Cemetery and Sun Lakes Wells
 (May 28, 2015 through Jan 23, 2020)

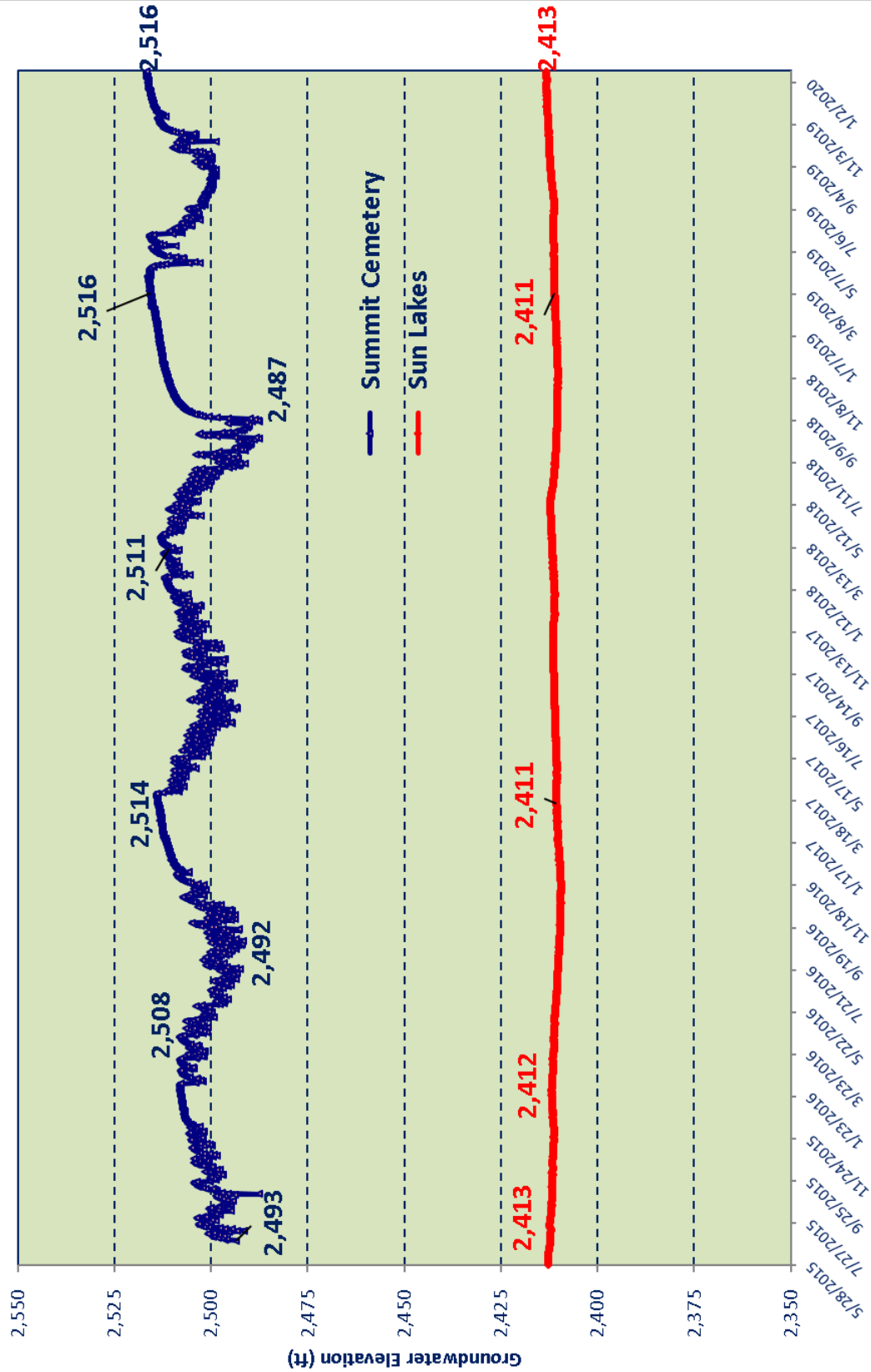


Figure No. 5
Static Groundwater Elevations in the Banning Area
 (May 28, 2015 through Jan 23, 2020)

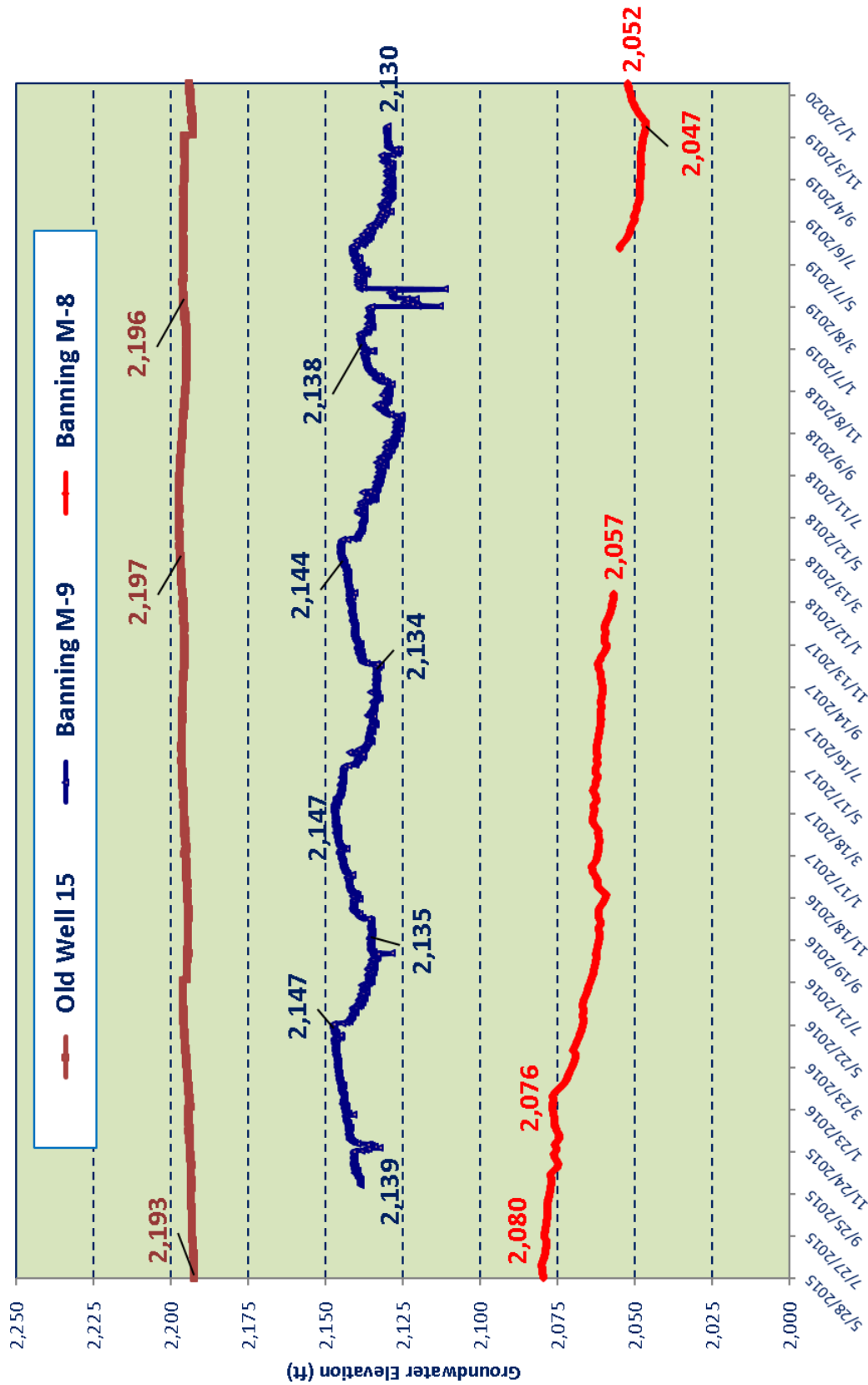


Figure No. 6
Static Groundwater Elevations at BCVWD Wells No. 2 and 25
 (May 28, 2015 through Jan 23, 2020)

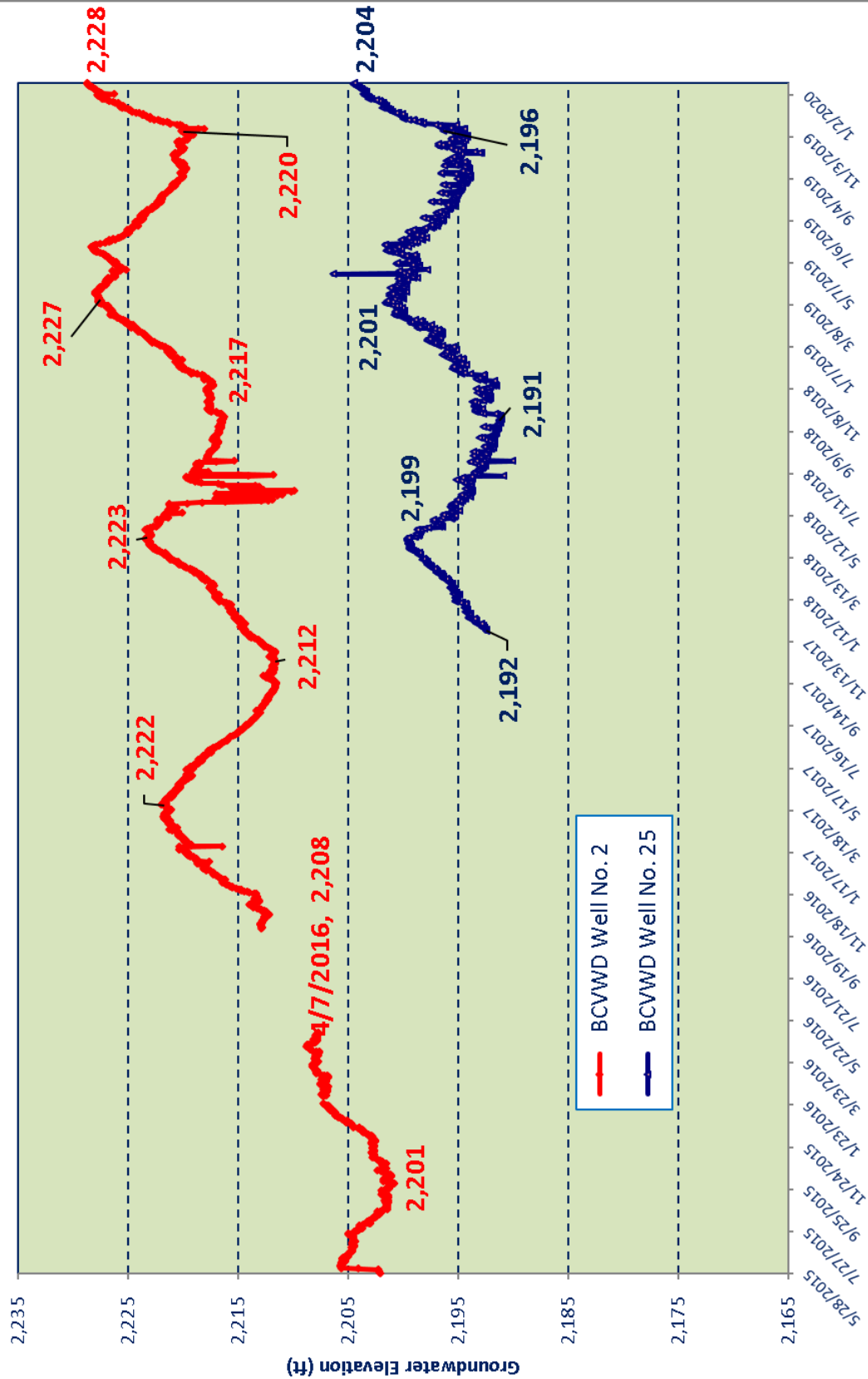
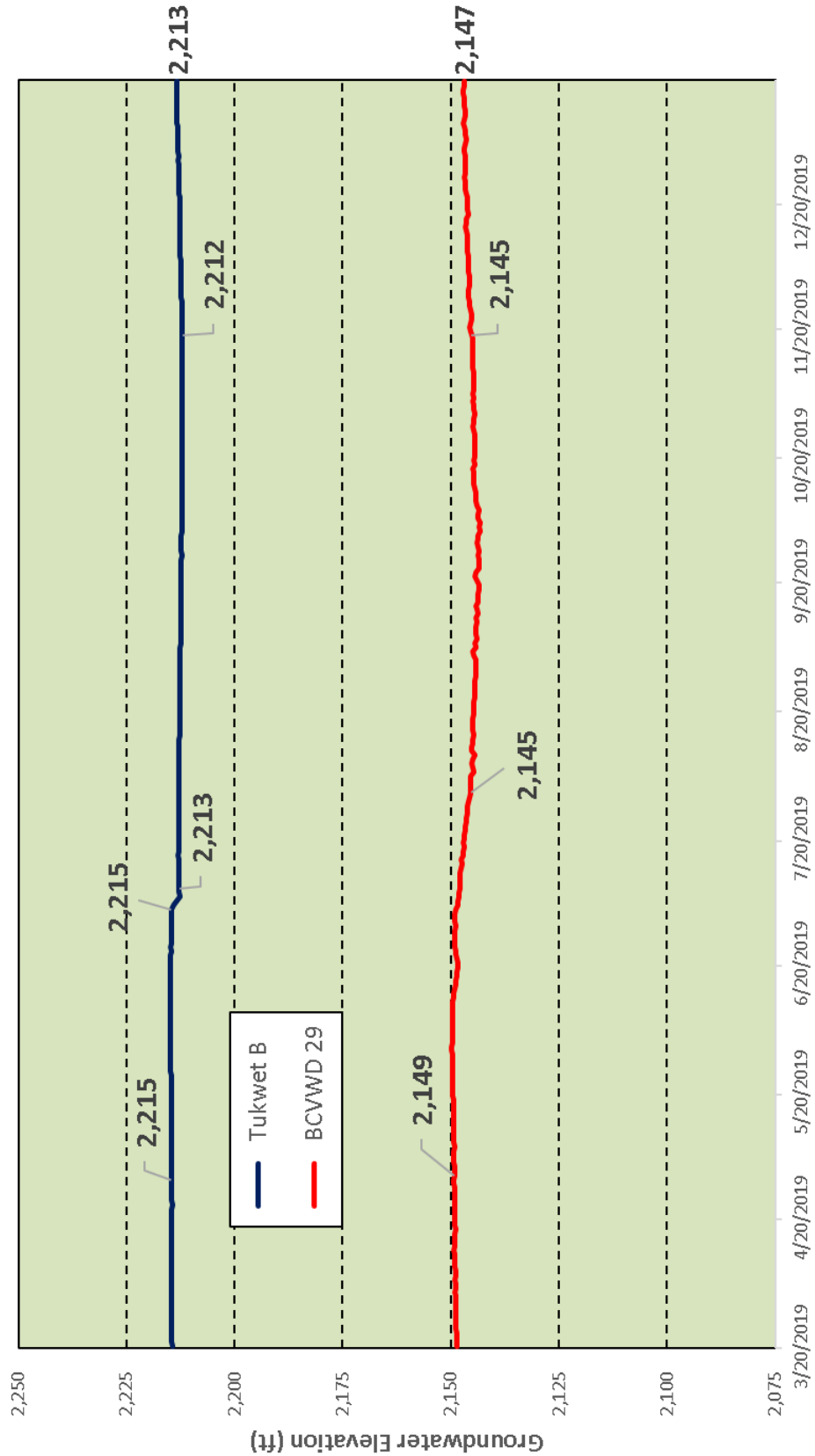


Figure No. 7
Static Water Level at BCVWD No. 29 and Tukwet Cyn Well B
 Mar 20, 2019 through Jan 23, 2020



BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 20-04

Date: February 5, 2020

From: Hannibal Blandon, ALDA Inc.

Subject: A Comparison of Production and Allowable Extractions through December 2019

Recommendation: No recommendation - For informational purposes only.

The purpose of this Technical Memorandum is to present a comparison of production rights from the basin against actual production by Appropriators. Production rights consist of the sum of a) unused production by overlying users from 2014 transferred to appropriators for 2019, b) transfers of overlying water rights from Oak Valley Partners to YVWD to serve certain parcels within the basin, and c) imported water spreading. This sum is compared against actual production through December 2019.

Total production by Appropriators in 2019 was 14,121 ac-ft while 13,895 ac-ft of imported water were spread. Allowable production for 2019 was estimated at 19,775 ac-ft. The table below presents the above comparison for all Appropriators in ac-ft.

	City of Banning	Beaumont Cherry Valley Water District	South Mesa Mutual Water Company	Yucaipa Valley Water District	Total
Transfer of Overlying Rights from 2014	1,408	1,905	559	609	4,481
Transfer of Overlying Rights from OVP to YVWD	0	0	0	1,399	1,399
Imported Water	250	13,645	0	0	13,895
Total	1,658	15,550	559	2,008	19,775
Production	2,061	11,202	330	529	14,121
% of Total	124.3%	72.0%	59.0%	26.3%	71.4%

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 20-05

Date: February 5, 2020

From: Joseph Zoba, Treasurer

Subject: Consideration of Change Order No. 2 for Task Order No. 17 for the Development of a Return Flow Methodology for the Beaumont Basin.

Recommendation: That the Watermaster Committee approve Change Order No. 2 to Task Order No. 17 for the sum not to exceed \$27,850.00 and to direct the Treasurer to invoice specific Appropriators based on anticipated benefits.

On October 3, 2018, as documented in Technical Memorandum 18-21, the Watermaster Committee approved Task Order No. 17 for the Development of a Return Flow Methodology for the Beaumont Basin. Task Order No. 17 was approved for the sum not to exceed \$40,140.00. The expenses associated with the initial task order were to be divided equally between Appropriators anticipated to receive a benefit from the development of this methodology.

On October 2, 2019, as documented in Technical Memorandum 19-22, the Watermaster Committee approve Change Order No. 1 to Task Order No. 17 for the amount of \$4,780.00 bringing the contract amount under this task to \$44,920.00. At that meeting, members of the Watermaster Committee provided both written and verbal comments; the comments were grouped into the following general categories:

1. Indoor/Outdoor Water Use Estimates
2. Landscape Irrigation Efficiency Assumptions
3. Need for Additional Water Delivery Account Types
4. Accounting for Pipeline Losses in both Sewer and Water Pipelines

The attached scope of services addresses those areas identified at the October 2, 2019 meeting. The estimated cost to complete the attached tasks is \$27,850.00. Approval of this change order will bring the upper limit on the contract to \$72,770.00.

ALDA Inc.

5928 Vineyard Avenue
Alta Loma, CA 91701
Tel: (909) 587-9916
Fax: (909) 498-0423

February 5th, 2020

Joseph B. Zoba, General Manager
Yucaipa Valley Water District
12770 Second Street
Yucaipa, California 92399

Subject: **Beaumont Basin Watermaster – Task Order No. 17 – Change Order 2
Development of a Return Flow Accounting Methodology**

Dear Mr. Zoba:

As per your request, ALDA Inc., in association with Thomas Harder & Company (TH&Co), has prepared this request for additional budget to address comments to our draft Technical Memorandum (TM) entitled "Return Flow Accounting Methodology for the Beaumont Basin Adjudicated Area," dated July 29, 2019. This work is being conducted per Task Order No. 17. Members of the Beaumont Basin Watermaster Committee provided both written and verbal comments regarding the TM at the October 2, 2019 meeting. The comments were grouped into the following general categories:

1. Indoor/Outdoor Water Use Estimates
2. Landscape Irrigation Efficiency Assumptions
3. Need for Additional Water Delivery Account Types
4. Accounting for Pipeline Losses in both Sewer and Water Pipelines

Our proposed detailed scope of work is attached.

We welcome your thorough review of our proposed scope services. Should you have any questions on our proposed services or need further information, please contact us at 909-587-9916 during normal business hours.

Very truly yours

ALDA Inc.



F. Anibal Blandon, P.E.
Principal

Beaumont Basin Watermaster – Task Order No. 17

Development of Return Flow Accounting Methodology – Change Order No. 2

Feb 5, 2020

SCOPE OF SERVICES

Task 1 – Modifications to Indoor/Outdoor Water Use Estimates

The methodology to estimate the percentage of indoor versus outdoor water use, as outlined in the draft report, is based on a comparison of wastewater influent at the City of Beaumont wastewater treatment plant with total delivered water within the City's sewerage area. Inflows to the treatment plant were assumed to be analogous to indoor water use. The proportion of indoor vs. outdoor water use identified for the City of Beaumont sewerage area was also applied to the Banning and Yucaipa Valley Water District (YVWD) areas.

In order to address Board member comments, the following changes in the methodology will be analyzed and incorporated:

- ✓ In the last 15 years, the percentage of outdoor water use across the Beaumont Basin has decreased as newer homes were built with smaller landscape footprints and as conservation ordinances were initiated. This trend is predicted to continue. The method proposed in the draft report should address this through the assumption that, as conservation through reduced outdoor water use occurs, the difference between the total delivered water and inflow to the wastewater treatment plant will decrease. TH&Co will incorporate this analysis to be done on an annual basis to address increased outdoor water conservation.
- ✓ The draft report assigned outdoor water use estimates to all sewerage water accounts equally. TH&Co will evaluate the potential benefits of applying different proportions of indoor/outdoor water use to individual areas of any given Appropriator based on differences in landscape footprint.
- ✓ TH&Co will apply different proportions of indoor/outdoor water use to the City of Banning and YVWD based on differences between their respective wastewater treatment plant inflows and total delivered water. For YVWD, TH&Co will use dual-metered water services to help delineate indoor vs. outdoor water use.

Estimated Hours: 45 Hours

Estimated Cost: \$4,830.00

Beaumont Basin Watermaster – Task Order No. 17

Development of Return Flow Accounting Methodology – Change Order No. 2

Feb 5, 2020

Task 2 – Further Evaluation of Landscape Irrigation Efficiency

The current return flow methodology assumes that 25 percent of applied water will become return flow. It has been noted that irrigation efficiency has increased with the incorporation of drought tolerant landscaping, new spray sprinkler regulations and conservation. TH&Co will further evaluate the 25 percent return flow factor (75 percent irrigation efficiency) assumption. As needed, different return flow factors may be applied to different areas within each Appropriator service area.

Estimated Hours: 48 Hours

Estimated Cost: \$5,640.00

Task 3 – Incorporation of Additional Water Delivery Account Types

The current methodology includes four water delivery account types: sewer, unsewer, landscape, and construction. The Board has requested that TH&Co include commercial property as an additional category, or account type, for assigning return flow. For budget purposes, we will incorporate the top 20 industrial water users into this new account type. In addition, TH&Co will also evaluate the feasibility and benefit of dividing the sewer category into newer developments and older developments in order to link revised return flow factors from Task 2.

Estimated Hours: 33 Hours

Estimated Cost: \$3,540.00

Task 4 – Accounting for Pipeline Losses and Infiltration and Inflow

TH&Co will conduct an analysis to assess pipeline losses in both the sewer and the water distribution system. Losses from either pipeline system would contribute to return flow. Sewer line losses would also impact the calculation of indoor vs. outdoor water use. TH&Co will solicit pipeline loss information from the Appropriators to make adjustments to the indoor/outdoor water use estimates and account for return flow from pipeline losses. TH&Co will also review available documents to assess the magnitude of inflow and infiltration (I&I) to the treatment plan, which is not associated with public wastewater generation. TH&Co will work with the cities of Beaumont and Banning to identify previous studies, if any, of I&I. If data for I&I are available, TH&Co will adjust the indoor/outdoor water use estimates accordingly.

Estimated Hours: 20 Hours

Estimated Cost: \$2,340.00

Beaumont Basin Watermaster – Task Order No. 17

Development of Return Flow Accounting Methodology – Change Order No. 2

Feb 5, 2020

Task 5 – Other Changes

Other comments to be addressed in the draft report will include:

- ✓ Potential revisions to the return flow lag time schedule table to adjust for changing water level fluctuations over time.
- ✓ Adjustments to return flow methodology for the City of Banning to account for water delivered to the Banning Golf Course from outside the Beaumont Basin adjudicated area.

Estimated Hours: 18 Hours

Estimated Cost: \$2,320.00

Task 6 – Application of Refined Methodology to Recent Data

Using the refined return flow methodology developed based on comments from the Board, TH&Co will estimate the return flow, by Appropriator, for the most recent calendar year that data are available. The return flow will be estimated for the portions of each Appropriators' service areas that overlie the Beaumont Basin adjudicated area.

Estimated Hours: 46 Hours

Estimated Cost: \$5,280.00

Task 7 – Finalize Return Flow Methodology Technical Memorandum

TH&Co will revise the draft Technical Memorandum describing the Beaumont Basin return flow accounting methodology to incorporate refinements based on Board comments. The cost estimate for this task includes submittal of one draft-final version of the TM for review and comment and one final version upon incorporation of comments.

Estimated Hours: 32 Hours

Estimated Cost: \$3,900.00

Beaumont Basin Watermaster – Task Order No. 17

Development of Return Flow Accounting Methodology – Change Order No. 2

Feb 5, 2020

COST ESTIMATE

Our estimated cost to perform the scope of work as outlined herein is \$27,850.00 (Twenty-Seven Thousand Eight Hundred Fifty Dollars and 00/100); this estimate is based on 242 technical and administrative hours. Services will be billed on a time and material basis up to the approved limit and according to the billing rates below.

Billing Rates for ALDA Inc. / Thomas Harder and Company

Billing rates for Task Order No. 17:

<u>Position</u>	<u>Hourly Rate</u>
Project Manager	\$180.00
Principal Hydrogeologist	\$180.00
Project Hydrogeologist	\$120.00
Staff Hydrogeologist	\$ 95.00
Graphics / Designer Drafter	\$ 85.00
Clerical	\$ 65.00

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 20-06

Date: February 5, 2020

From: Hannibal Blandon, ALDA Inc.

Subject: 2019 Annual Report Status and Rescheduling

Recommendation: That the Board considers moving the April meeting to its regular schedule on the first Wednesday of the month

The Sustainable Groundwater Management Act of 2014 (SGMA) provides a framework for long-term sustainable groundwater management across California. As part of this program, groundwater basins watermasters are required to provide certain information about their basins on an annual basis. The information to be submitted includes the following: a) total annual production from the basin, b) total spreading of imported water, and c) change in storage for the preceding water year, which ends on September 30th.

In order to provide the required information by the April 1st deadline, the Beaumont Basin Watermaster has adjusted the schedule of its regular meetings. The regular meeting scheduled for the first Wednesday of April has been moved to the last Wednesday of March. The intent was to have a draft of the annual report for the preceding year submitted at the February meeting thus allowing time for review of the document and comments to be incorporated into a final report to be submitted in late March. This would allow time to submit the report to DWR by the deadline.

Producing a draft of the annual report by the February meeting has proven to be a challenge. The information required to run the groundwater model does not become available until mid-January or even latter in the month. Documenting total production and spreading information for the preceding year is attainable and can be easily incorporated into the draft annual report for presentation at the February meeting. However, running the groundwater model to estimate the change in storage that took place in the preceding year and conducting proper quality control on modeling results is nearly impossible by the last week in January when the technical memoranda are submitted for inclusion into the February package to the Board.

We anticipate to have the groundwater model run and the change in storage calculated and properly checked and documented by the week of February 17, 2020. At that time, the final numbers can be provided to the BGVWD for them to submit to DWR before the April 1st, 2020 deadline. Considering that production, spreading, and change in storage quantities are highly unlikely to change between a draft and final reports, the Beaumont Basin Watermaster could certify the final numbers by the April meeting, coincidentally scheduled for April 1st, 2020. At that meeting, we would present a draft of the 2019 annual report followed by the delivery of a final report at the June meeting. A copy of the report could then be e-mailed to DWR.

We recommend that the Board considers moving the April meeting back to its regular schedule on the first Wednesday of the month. A draft of the annual report will be presented at that meeting followed by a final report at the June meeting.

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 20-07

Date: February 5, 2020

From: Hannibal Blandon, ALDA Inc.

Subject: 2018 Consolidated Annual Report and Engineering Report – Presentation of Final Report

Recommendation: That the Watermaster Committee adopts the Final 2018 Consolidated Annual Report and Engineering Report.

ALDA Inc., in Association with Thomas Harder & Company, will distribute and make a formal presentation of the Final 2018 Beaumont Basin Consolidated Annual Report and Engineering Report.

During the February 2019 regular meeting a formal presentation of the Draft report was made. That presentation addressed groundwater production, spreading of imported water, operating safe yield, wastewater discharges as well as water quality and storage accounts. A copy of the draft report presentation will be available in the event that any issue may need to be revisited.

The presentation of the final 2018 annual report will be limited to a) addressing comments received from the review of the draft report and b) presenting a revised Section 3.4.2 Transfers of Overlying Rights for Service by an Appropriator. Additionally, storage accounts will be presented as they are impacted by the revised section.

Committee members will have the opportunity to ask questions and comment on the topics presented or on the previous presentation of the draft report.

The Final 2018 Consolidated Annual Report is available online from the “Documents & Publications” section of the Beaumont Basin Watermaster website (www.beaumontbasinwatermaster.org)

Facts About the Beaumont Basin Watermaster

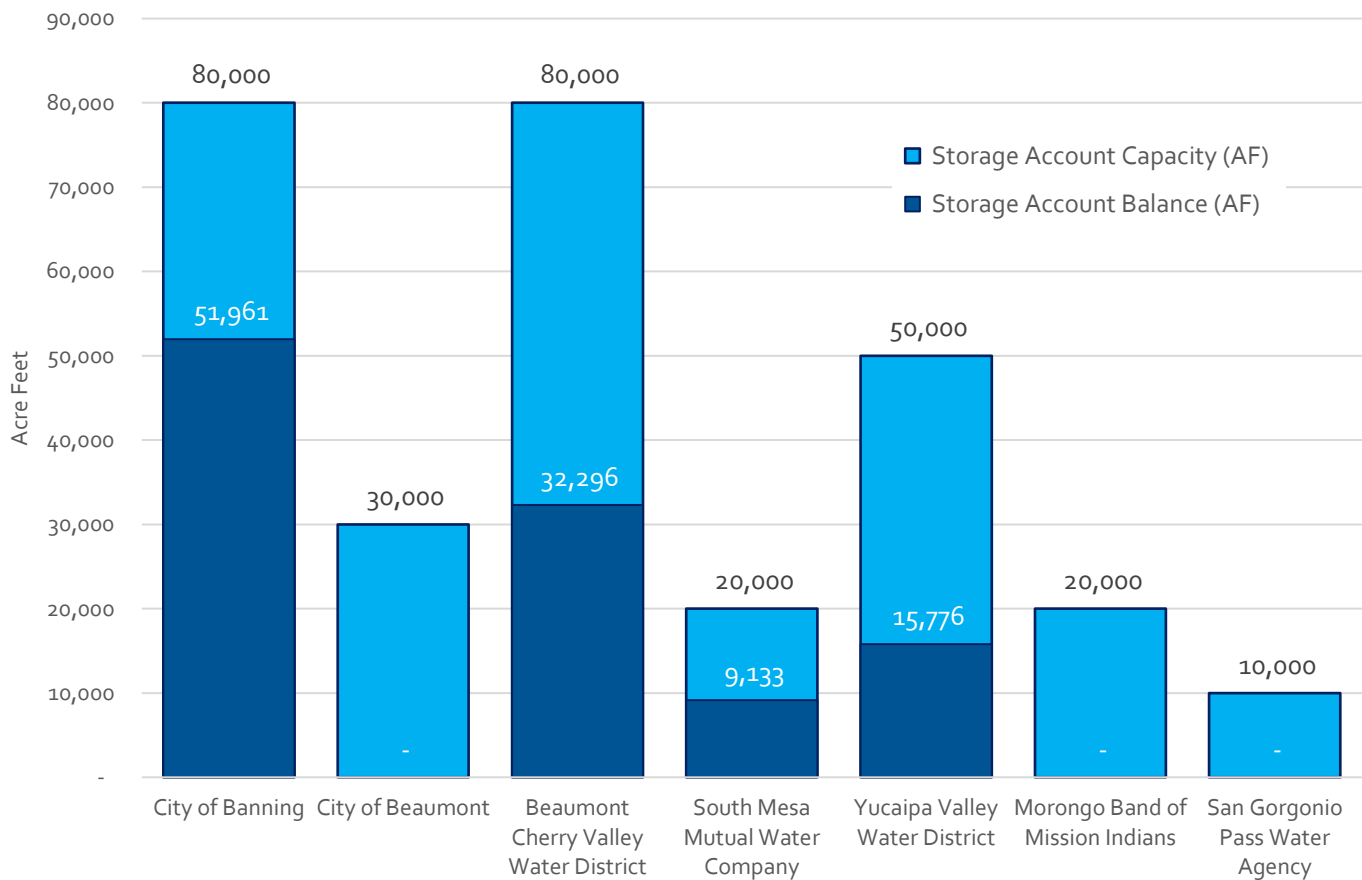
Authority and Formation: Case No. RIC 389197 – A Stipulated Agreement signed by Honorable Judge Gary Tranbarger of the Superior Court of the State of California, County of Riverside on February 4, 2004 (the “Judgment”).

Online Documentation: www.beaumontbasinwatermaster.org

Watermaster Members:

- City of Banning
 - Arturo Vela and Luis Cardenas
- City of Beaumont
 - _____ and Kyle Warsinski
- Beaumont Cherry Valley Water District
 - Dan Jagers and Mark Swanson
- South Mesa Mutual Water Company
 - George Jorritsma and David Armstrong
- Yucaipa Valley Water District
 - Joseph Zoba and Jennifer Ares

Storage Account Balances (as of December 31, 2017)



Financial Information:

Each year the Beaumont Basin Watermaster has an independent accountant's review of the financial standing. The following illustration provides a summary of the annual revenue and expenditure information since the formation of the Beaumont Basin Watermaster.

