

Notice and Agenda of a Meeting of the Beaumont Basin Watermaster

Wednesday, December 4, 2019 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 October 2, 2019 [Page 4 of 39]

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. Status Report on Water Level Monitoring throughout the Beaumont Basin through November 19, 2019 [Memorandum No. 19-24, Page 9 of 39]

Recommendation: No recommendation.

B. A Comparison of Production and Allowable Extractions through October 2019 [Memorandum No. 19-25, Page 19 of 39]

Recommendation: No recommendation - For informational purposes only.

- C. Independent Accountant's Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster [Memorandum No. 19-26, Page 20 of 39]
Recommendation: That the Watermaster Committee receives and files the Independent Accountant's Financial Report for the period ending June 30, 2019.
- 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 [Memorandum No. 19-27, Page 26 of 39]
Recommendation: That the Watermaster Committee approves Task Order No. 20 for a sum not to exceed \$95,970.
- E. Discussion Regarding Task Order No. 21 with ALDA Inc. for the Installation, Maintenance, and Data Collection of Water Level Monitoring Equipment in 2020 [Memorandum No. 19-28, Page 32 of 39]
Recommendation: That the Watermaster Committee approves Task Order No. 21 for a sum not to exceed \$ 21,520.
- F. Status of the Preparation of the 2018 Annual Report [Memorandum No. 19-29, Page 36 of 39]
Recommendation: That the Watermaster Committee provides direction as to the completion of the 2018 Annual 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

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

Consent Calendar

DRAFT
**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, October 2, 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 10:01 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>George Jorritsma</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. Hannibal Blandon and Thomas Harder were present as engineers for the BBWM.

Staff present were: Mark Swanson, James Bean, Daniel Baguyo and Erica Gonzales from BVCWD and Jennifer Ares from YVWD

Members of the public who registered and / or attended were: David Fenn from the San Geronio Pass Water Agency

III. Pledge of Allegiance

Chairman Vela led the pledge of allegiance.

IV. Public Comments:

None.

V. Consent Calendar

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

1. Meeting Minutes for August 7, 2019

AYES: Jagers, Jorritsma, 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 – Thomas Harder, Thomas Harder & Co.
Mr. Harder reported that data files were sent to Geoscience per their request.
- C. Report from Legal Counsel – Thierry Montoya, Alvarado Smith
Mr. Montoya reported that a draft motion was prepared for new member and alternate for the City of Beaumont and is waiting for declaration.

VII. Discussion Items

- A. Status Report on Water Level Monitoring throughout the Beaumont Basin through September 22, 2019
Recommendation: No recommendation.
Mr. Blandon presented highlights of the written report.
Chair Vela asked about the status of the Beaumont 15 monitoring well.
- B. A Comparison of Production and Allowable Extractions through August 2019
Recommendation: No recommendation - For informational purposes only.
Mr. Blandon presented a comparison of production rights from the Basin against actual production.
- C. Return Flow Analysis – Issues and Comments
Recommendation: That the Board provide additional input for consideration and inclusion into the Final Report.

Mr. Harder advised the Committee that comments have been received from Mr. Jagers and said he has not had time to prepare a full response. Harder addressed comments in general related to accounting for indoor / outdoor water use, types of water deliveries, sewerage / unsewered homes, and landscape.

Mr. Jagers explained his concern with in-tract landscape activities and compliance with landscape ordinances.

Mr. Harder discussed return flow lag time and water quality. He will incorporate all comments into the next draft.

D. Consideration of Change Order No. 1 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. 1 to Task Order No. 17 for the sum not to exceed \$4,780 and to direct the Treasurer to invoice specific Appropriators based on anticipated benefits.

Mr. Harder explained that work in the original scope exceeded estimates by \$4,780. Discussion ensued on division of the cost.

It was moved by member Zoba and seconded by Member Jagers to approve Change Order No. 1 to Task Order No. 17 for the sum not to exceed \$4,780 and to direct the Treasurer to invoice specific Appropriators based on anticipated benefits and approved by the following vote:

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

E. Status Report of the 2018 Annual Report

Recommendation: None – For information purposes only

Mr. Blandon provided an update.

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, December 4, 2019 at 10:00 a.m.

XI. Adjournment

Chairman Vela adjourned the meeting at 11:02 a.m.

Attest:

DRAFT UNTIL APPROVED

Daniel Jaggars, Secretary
Beaumont Basin Watermaster

Discussion Items

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 19-24

Date: December 4, 2019

From: Hannibal Blandon, ALDA Inc.

Subject: Status Report on Water Level Monitoring throughout the Beaumont Basin through November 19, 2019

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.
- ✓ At Oak Valley No. 5 the water level declined by 10 feet over the last six months and approximately seven feet since recording started in the summer of 2016.
- ✓ 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 50 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 5 ft. 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. As we approach the end of the high pumping season, water level at these two wells have been decreasing over the last six months. It is anticipated that levels at these wells will begin to improve as production declines to meet reduced winter demands.
- ✓ Figure No. 7 depicts the recorded water level at the two newest observation wells, BCVWD No. 29 and Tukwet Canyon Well "B". BCVWD is a pumping well that is now more actively used to meet peak summer demands. Water level at this well has experienced a slight decline of 4 ft over the last four months. 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 eight 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.

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.

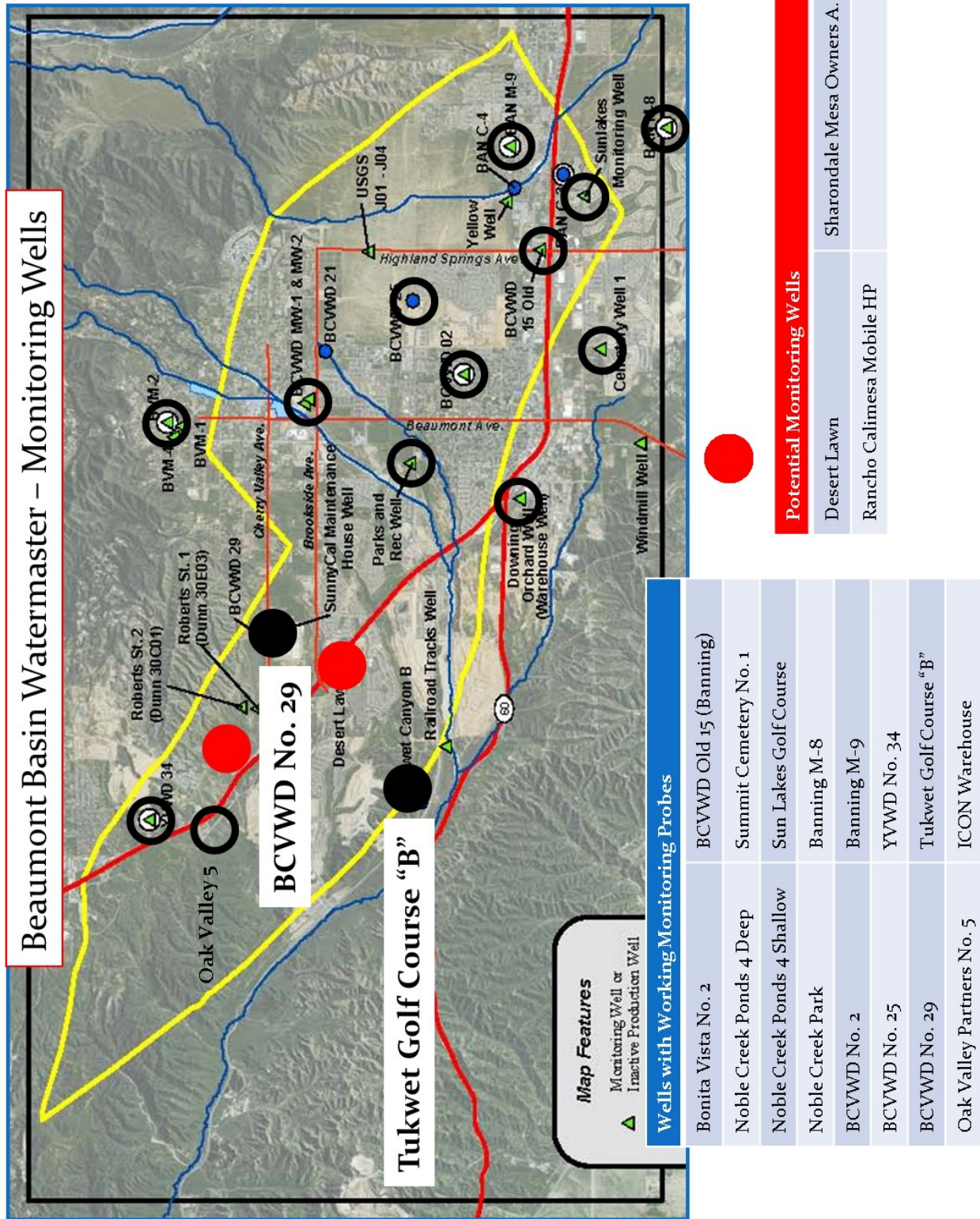


Figure No. 2
Static Groundwater Elevations at YVWD No. 34 and Oak Valley No. 5
 (July 29, 2015 through Nov 18, 2019)

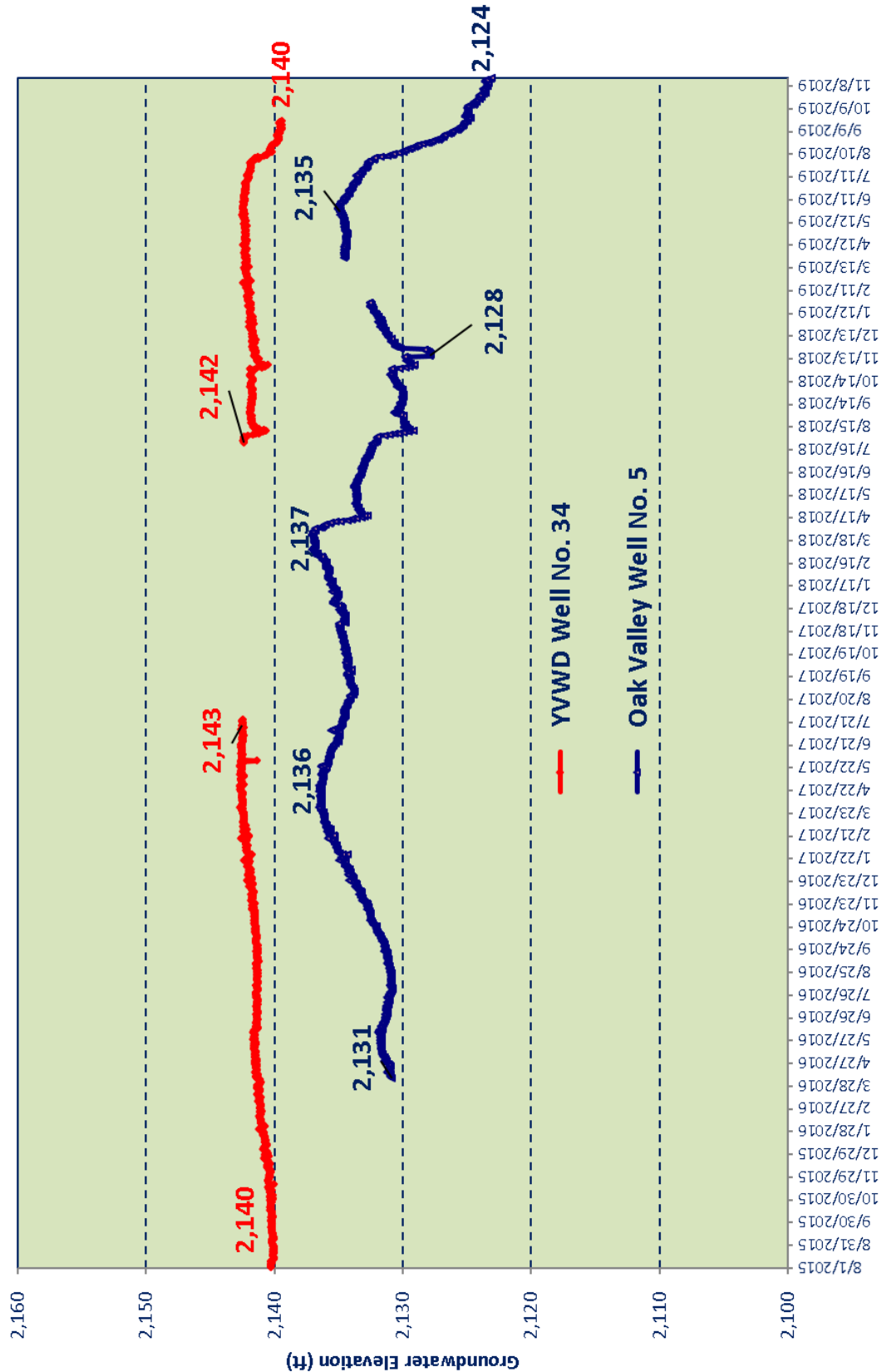


Figure No. 3
Static Groundwater Elevations at Noble Creek Obs. Well 4S and 4D
 (May 28, 2015 through Nov 18, 2019)

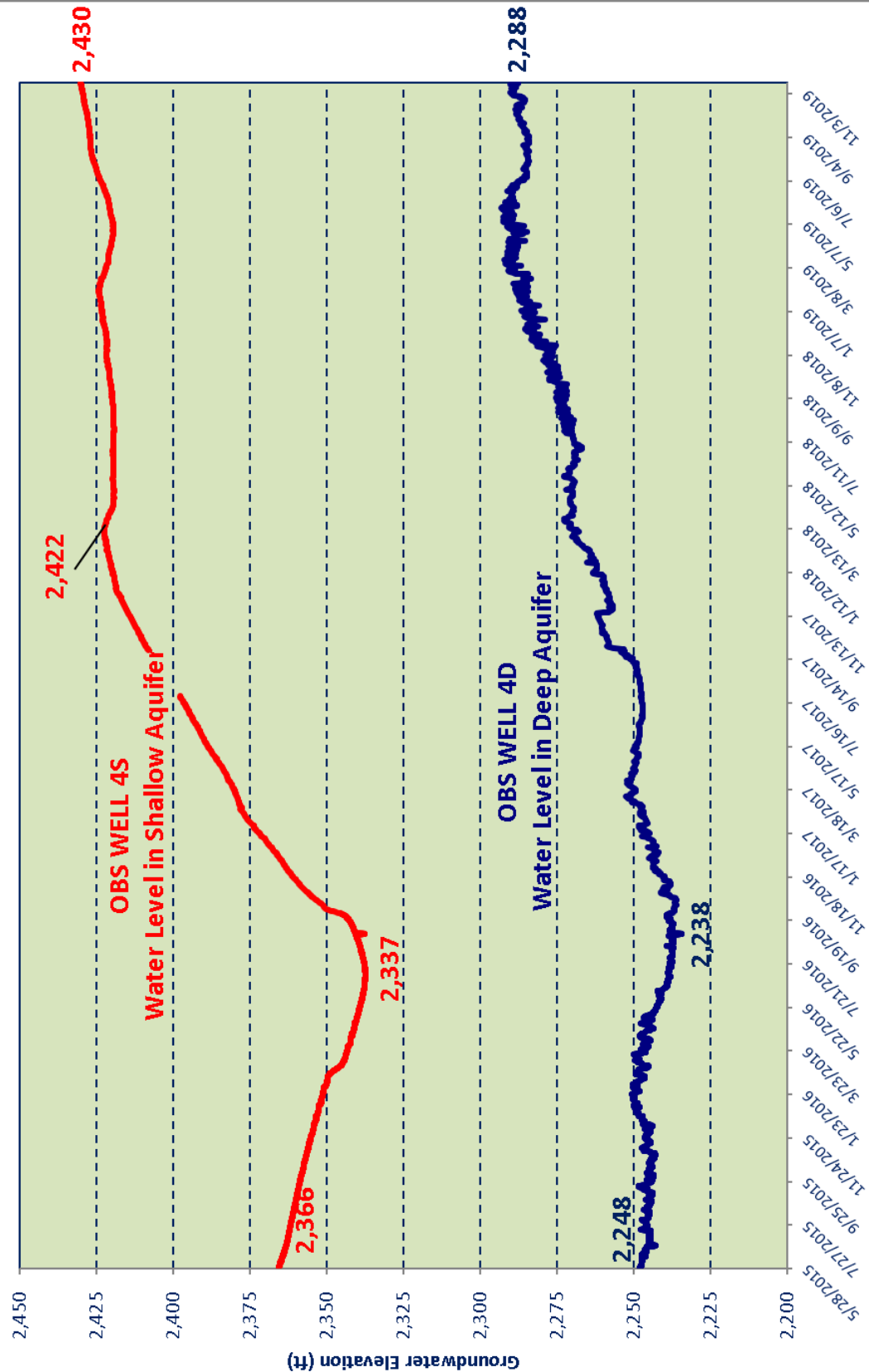


Figure No. 4
Static Groundwater Elevations at Summit Cemetery and Sun Lakes Wells
 (May 28, 2015 through Nov 18, 2019)

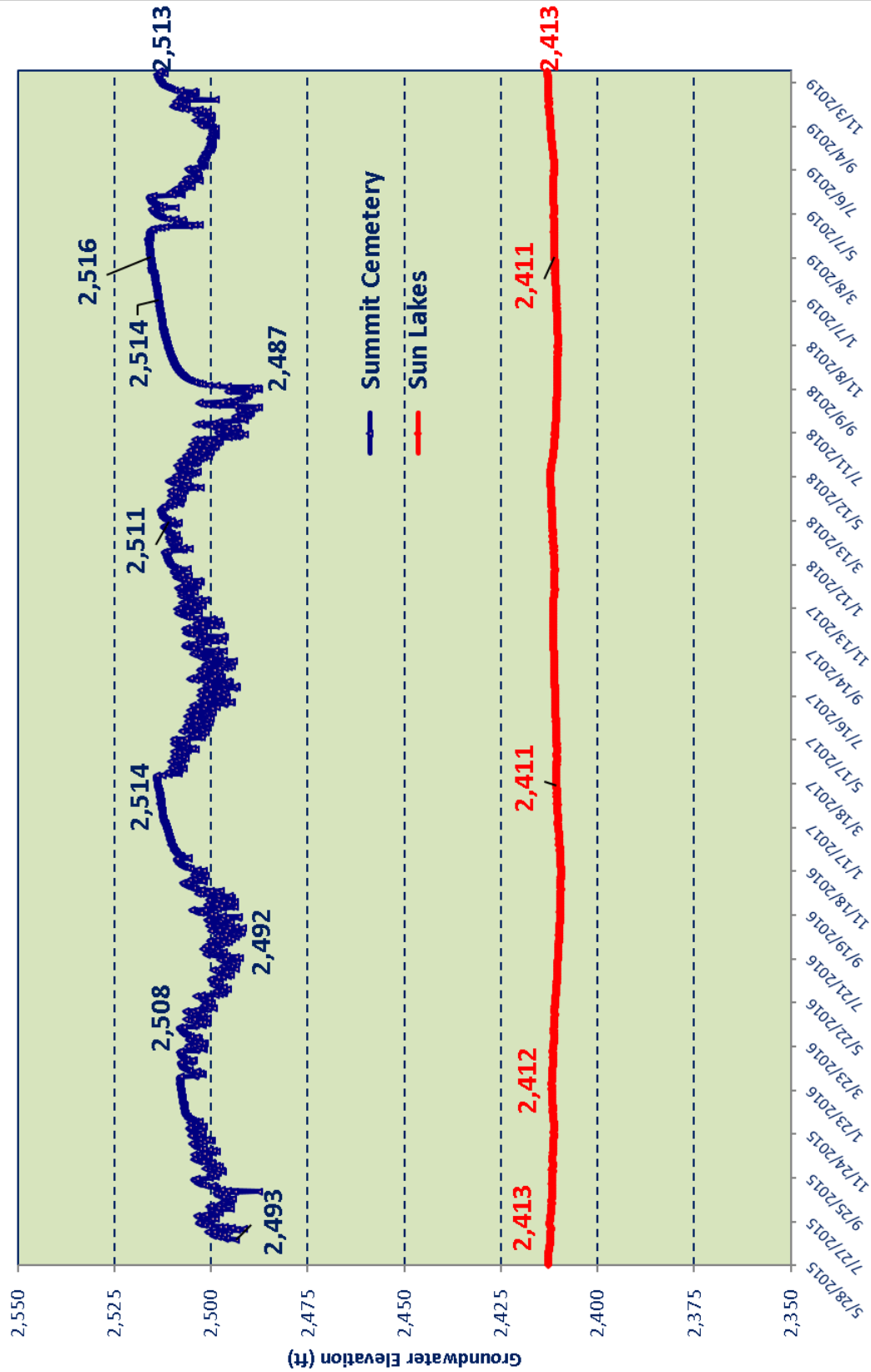


Figure No. 5
Static Groundwater Elevations in the Banning Area
 (May 28, 2015 through Nov 18, 2019)

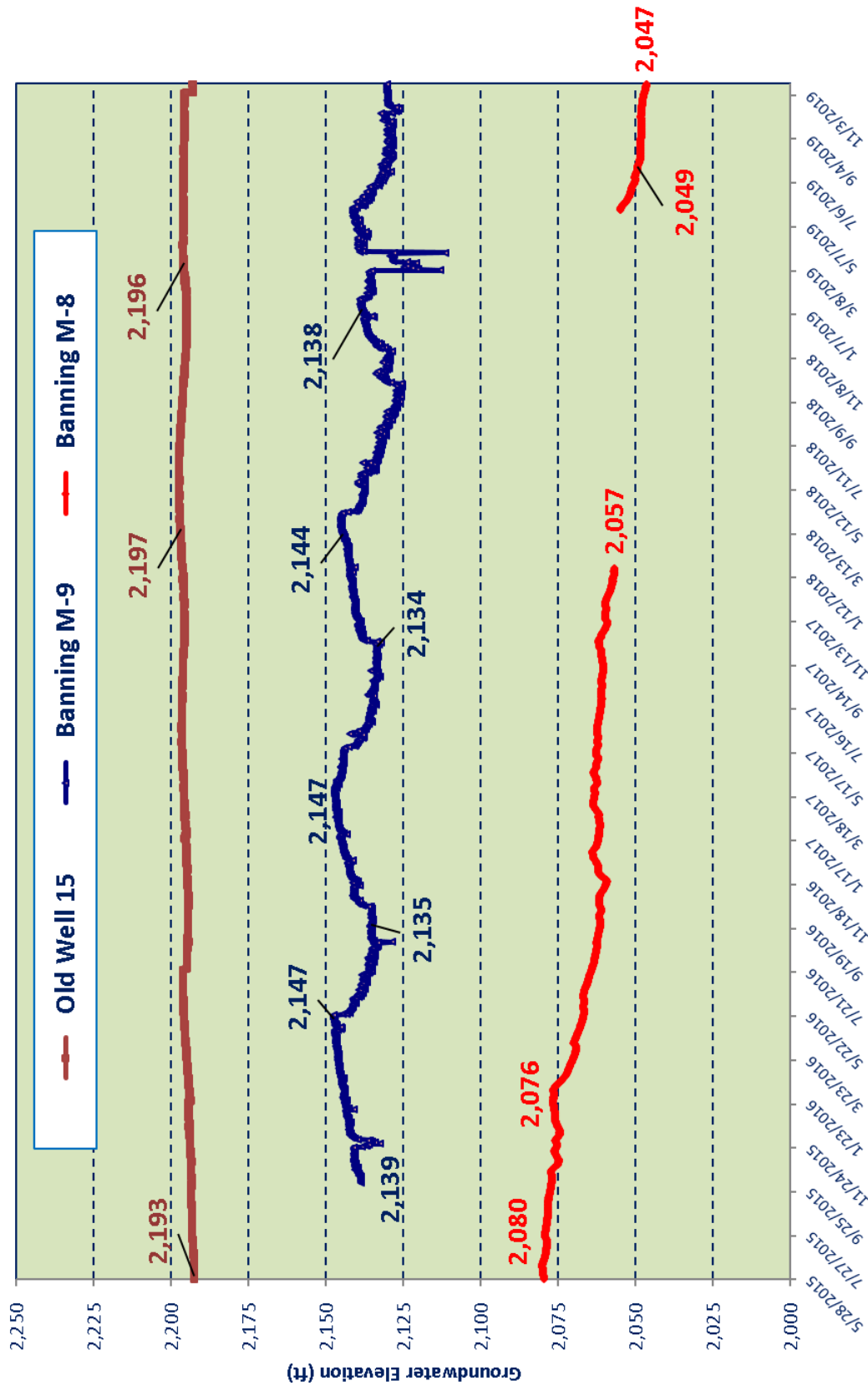


Figure No. 6
Static Groundwater Elevations at BCVWD Wells No. 2 and 25
 (May 28, 2015 through Nov 18, 2019)

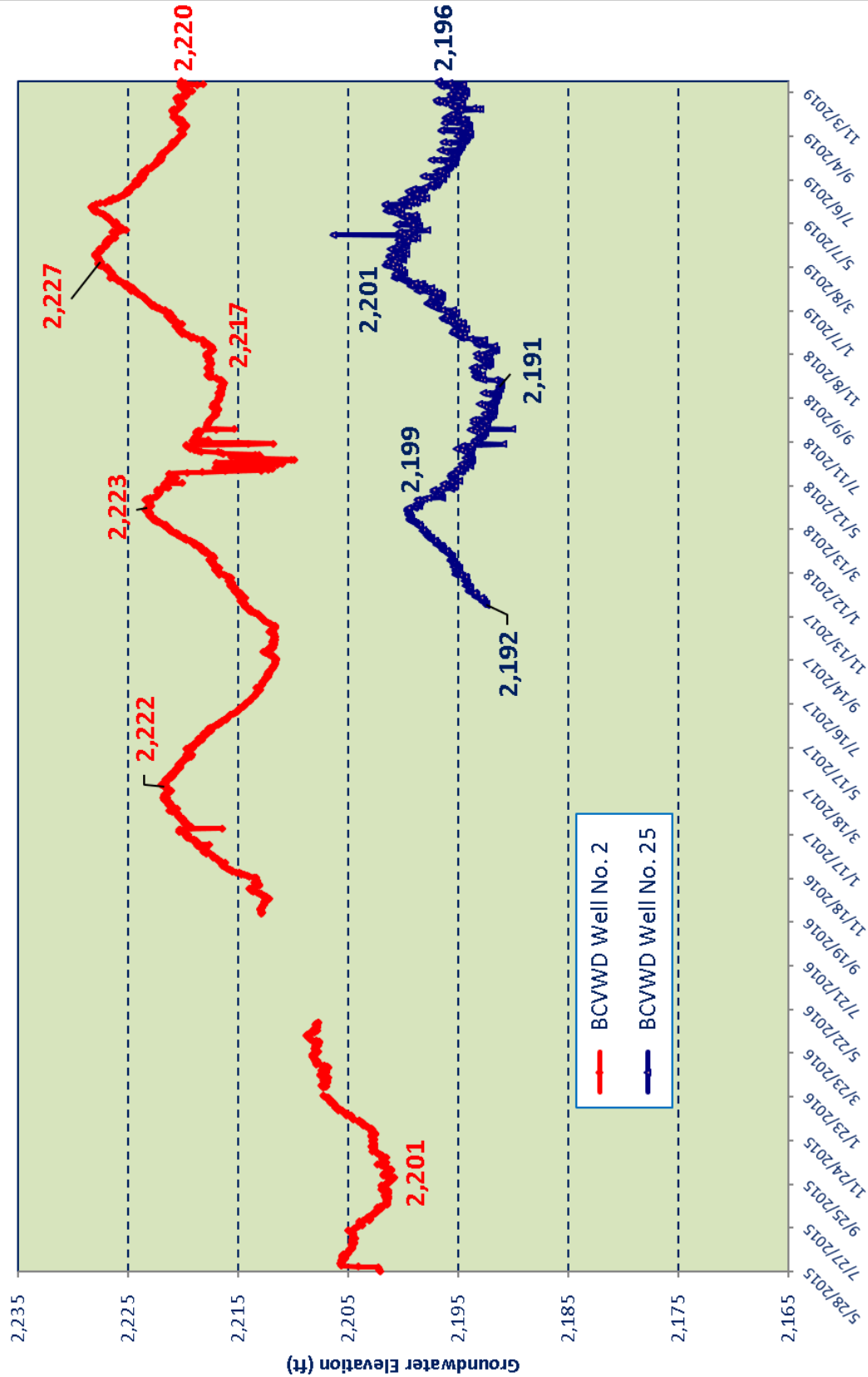
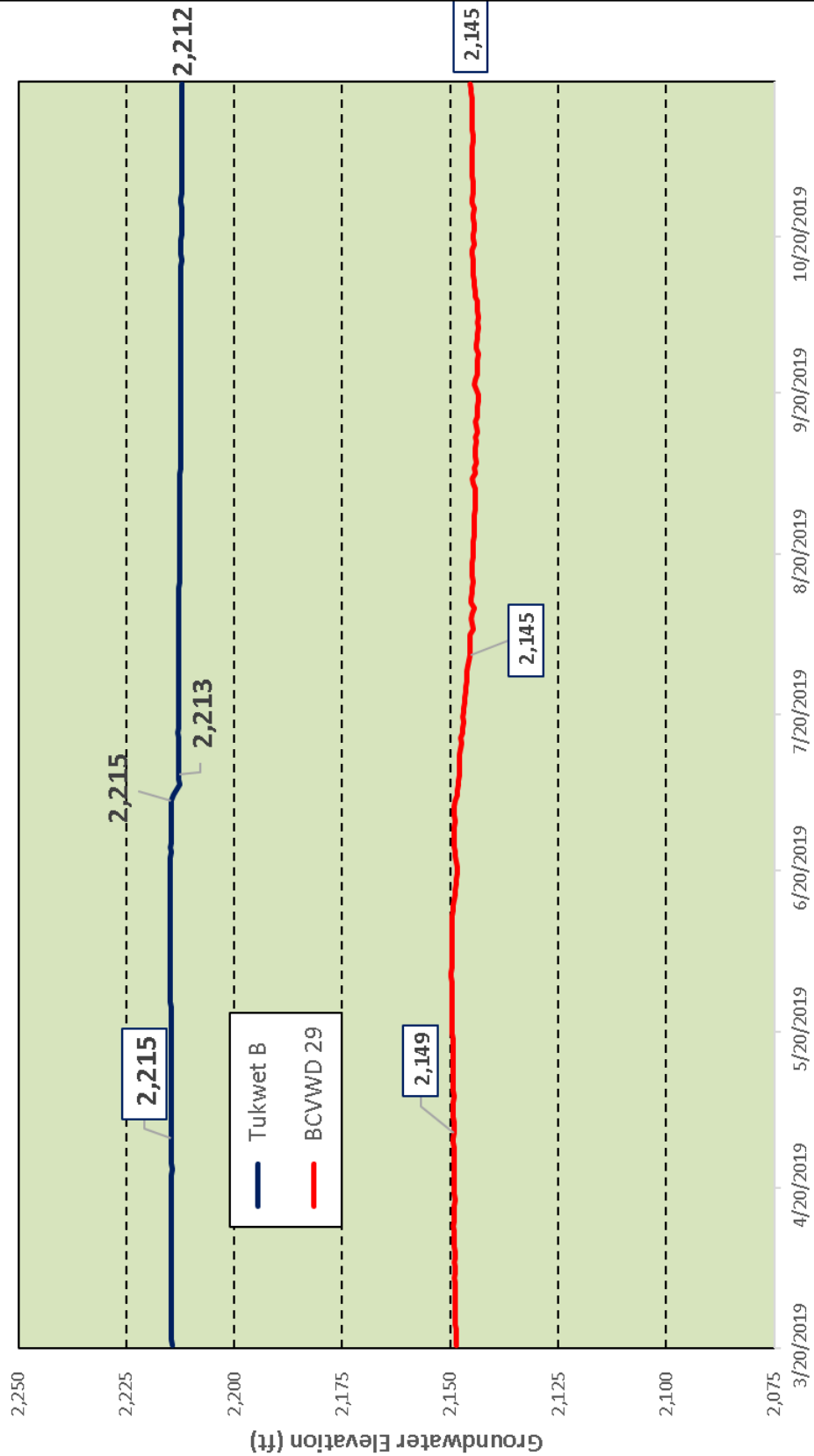


Figure No. 7
Static Water Level at BCVWD No. 29 and Tukwet Cyn Well B
 Mar 20, 2019 through Nov 18, 2019



BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 19-25

Date: December 4, 2019

From: Hannibal Blandon, ALDA Inc.

Subject: A Comparison of Production and Allowable Extractions through October 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 Unused Production by Overlying Users from 2014 transferred to Appropriators for 2019 and Imported Water Spreading. This sum is compared against actual production through August 2019. It should be noted that 2019 is the first year in which the Transfer of Overlying Rights were derived from the current basin safe yield of 6,700 ac-ft/yr. Transfers of Overlying water rights from Oak Valley Partners to the YVWD are not included here until this issue is fully resolved by the Board.

During the first ten months of the year a total of 11,680 ac-ft of water were produced from the basin by the Appropriators while 11,642 ac-ft of imported water were spread at the Noble Creek spreading grounds. Unused production by Overlying users for 2014 was estimated at 4,481 ac-ft. The table below presents the above comparison for all Appropriators; all numbers shown in ac-ft, except as noted.

	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
Imported Water	125	11,517	0	0	11,642
Total	1,533	13,422	559	609	16,123
Production	1,820	9,214	304	342	11,680
% of Total	118.7%	68.6%	54.3%	56.2%	72.4%

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 19-26

Date: December 4, 2019

From: Joseph Zoba, Treasurer

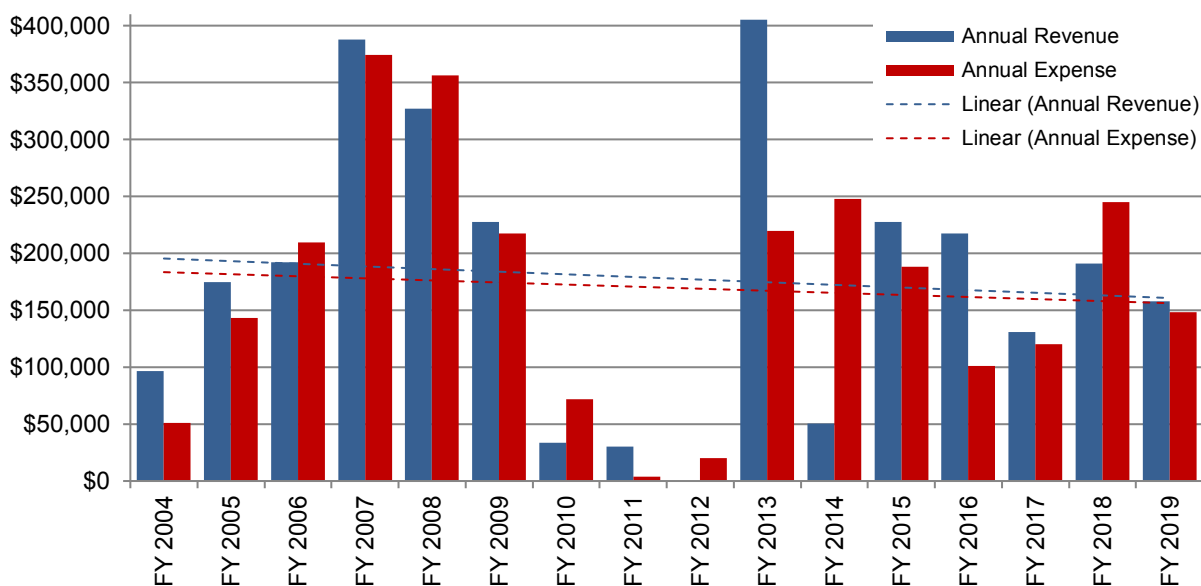
Subject: Independent Accountant's Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster

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

The Beaumont Basin Watermaster engaged the firm of Rogers, Anderson, Malody & Scott to perform an independent financial review of the Watermaster activities for the fiscal year ending June 30, 2019. The independent financial review was conducted under the same terms and scope as the prior fiscal year.

At the beginning of the 2018-2019 fiscal year, the Beaumont Basin Watermaster had an unrestricted net position of \$135,183. During the fiscal year, the Watermaster collected \$157,729 in revenues and expended \$148,010. As of June 30, 2018, the Watermaster had unrestricted net position of \$1144,902.

The following illustration provides a summary of the annual revenues and expenses of the Beaumont Basin Watermaster since its formation in 2004.



BEAUMONT BASIN WATERMASTER
INDEPENDENT ACCOUNTANT'S REPORT ON APPLYING
AGREED-UPON PROCEDURES
ON THE BEAUMONT BASIN WATERMASTER SCHEDULES
JUNE 30, 2019



ROGERS, ANDERSON, MALODY & SCOTT, LLP
CERTIFIED PUBLIC ACCOUNTANTS, SINCE 1948

735 E. Carnegie Dr. Suite 100
San Bernardino, CA 92408
909 889 0871 T
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ramscpa.net

INDEPENDENT ACCOUNTANT'S REPORT ON APPLYING AGREED-UPON PROCEDURES

Yucaipa Valley Water District as Treasurer
of the Beaumont Basin Watermaster
Yucaipa, California

PARTNERS

Brenda L. Odle, CPA, MST
Terry P. Shea, CPA
Scott W. Manno, CPA, CGMA
Leena Shanbhag, CPA, MST, CGMA
Bradford A. Welebir, CPA, MBA, CGMA
Jay H. Zercher, CPA (Partner Emeritus)
Phillip H. Waller, CPA (Partner Emeritus)
Kirk A. Franks, CPA (Partner Emeritus)

DIRECTORS

Jenny Liu, CPA, MST

MANAGERS / STAFF

Charles De Simoni, CPA
Gardenya Duran, CPA
Brianna Schultz, CPA
Jingjie Wu, CPA
Evelyn Morentin-Barcena, CPA
Jin Gu, CPA, MT
Veronica Hernandez, CPA
Tara R. Thorp, CPA, MSA
Laura Arvizu, CPA

We have performed the procedures enumerated below, which were agreed to by the Yucaipa Valley Water District (District), as treasurer of the Beaumont Basin Watermaster (Watermaster), solely to assist the District in evaluating certain amounts reported in the Watermaster Schedules (Schedules), attached as Exhibit A and Exhibit B, on the full accrual basis of accounting as of June 30, 2019 and for the year then ended and its compliance with the Rules and Regulations regarding assessments and expenses. The District's and Watermaster's management are responsible for the accuracy of the Schedules. The sufficiency of these procedures is solely the responsibility of those parties specified in this report. Consequently, we make no representation regarding the sufficiency of the procedures enumerated below either for the purpose for which this report has been requested or for any other purpose.

Our procedures and findings are as follows:

1. Procedure

Agree the unrestricted net position, beginning of year amount on the Schedule of Revenues and Expenses (Exhibit B) to the unrestricted net position, end of year amount noted on the trial balance for the fiscal year ended June 30, 2018.

Finding

No exceptions were noted as a result of applying the procedure.

2. Procedure

Agree the cash balance reported on Exhibit A to the bank reconciliation, bank statement and trial balance. Select all of the deposits in transit and outstanding checks and trace their clearing to the subsequent month's bank statement.

Finding

No exceptions were noted as a result of applying the procedure.

MEMBERS

American Institute of
Certified Public Accountants

*PCPS The AICPA Alliance
for CPA Firms*

*Governmental Audit
Quality Center*

*Employee Benefit Plan
Audit Quality Center*

California Society of
Certified Public Accountants

3. Procedure

Trace all member agency assessments recorded in the schedule of revenues and expenses (Exhibit B) to the invoices and the bank statements.

Finding

No exceptions were noted as a result of applying the procedure.

4. Procedure

Compare the ending check number for the fiscal year ended June 30, 2018 to the beginning check number for the period beginning on July 1, 2018. Note any breaks in check sequence for the period of July 1, 2018 through June 30, 2019.

Finding

No exceptions were noted as a result of applying the procedure.

5. Procedure

Based on the population of checks issued during July 1, 2018 through June 30, 2019, select all payments and trace the check to supporting invoice noting whether the activity pertains to the Watermaster. Agree the dollar amount and vendor on the invoice to the check for accuracy.

Finding

No exceptions were noted as a result of applying the procedure.

6. Procedure

Obtain the general ledger detail for the period of July 1, 2018 to June 30, 2019. Select all journal entries and trace the transaction to an approved journal entry and documentation supporting the nature and rationale of the journal entry.

Finding

No exceptions were noted as a result of applying the procedure.

This agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. We were not engaged to and did not conduct an examination or review, the objective of which would be the expression of an opinion or conclusion, respectively, on the schedules of assets, liabilities and net position (Exhibit A) and revenues and expenses (Exhibit B). Accordingly, we do not express such an opinion or conclusion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

This report is intended solely for the information and use of the Watermaster and the District and is not intended to be and should not be used by anyone other than the specified parties.

Rogers, Anderson, Malody & Scott, LLP.

August 13, 2019
San Bernardino, California

Exhibit A

**Beaumont Basin Watermaster
Schedule of Assets, Liabilities and Net Position
(Unaudited)
June 30, 2019**

Assets

Cash and cash equivalents	<u>\$ 147,332</u>
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Liabilities

Accounts payable	<u>2,430</u>
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Net position

Unrestricted	<u><u>\$ 144,902</u></u>
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Exhibit B

**Beaumont Basin Watermaster
Schedule of Revenues and Expenses
(Unaudited)
For the Year Ended June 30, 2019**

Revenues

Assessments	\$ 157,630
Interest	99
	<hr/>
Total revenues	157,729
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Expenses

Special projects	
Acquisition/computation and annual report	15,078
Engineering	65,313
Monitoring and data acquisition	44,567
Administrative	
Legal and professional	23,034
Bank charges	18
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Total expenses	148,010
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Change in net position	9,719
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Unrestricted net position, beginning of year	135,183
	<hr/>

Unrestricted net position, end of year	\$ 144,902
	<hr/> <hr/>

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 19-27

Date: December 4, 2019

From: Joseph Zoba, Treasurer

Subject: 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 approves Task Order No. 20 for a sum not to exceed \$95,970.

A new task order is necessary to authorize ALDA Inc. to provide technical support services to the Watermaster Committee during Calendar Year 2020.

The proposed scope of services for Task Order No. 20, consistent with previously years, provides for the preparation of the 2019 Consolidated Annual Report, estimate of the 2019 Safe Yield of the Beaumont Basin, and Associated Consulting Services in support to Watermaster activities during 2020. In addition, this task order incorporates the annual update of the groundwater model to 2019 hydrologic conditions.

The estimated cost of completion is estimated at \$95,970 and it is based on the amended rates for 2017-21 calendar years. The cost for this task order is the same cost used under previous task orders (No. 12 for CY 2017, No. 15 for CY 2019, and No. 18 for CY 2019).

The financial impacts associated with the proposed contract would result in a budget line item of \$95,970.00, and if approved would result in an invoice sent to each Watermaster Committee member in the amount of \$19,194.

ALDA Inc.

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

December 4, 2019

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

Subject: **Beaumont Basin Watermaster – Task Order No. 20
Preparation of the 2019 Operating Safe Yield and Annual Report and
Engineering Support Services for Calendar Year 2020**

Dear Mr. Zoba:

Please find attached our proposed scope of services and consulting fee for Task Order No. 20 under the Engineering Services contract with the Beaumont Basin Watermaster dated May 10, 2012 and amended in February 2017. The proposed scope of services includes a) the preparation of the consolidated Annual Report for 2019, b) an estimate of the operating safe yield for 2019, c) the update of the groundwater model to include 2019 hydrologic data, and d) provide general consulting services in support to Watermaster activities during 2020.

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. 20
2019 Annual Report and Associated Consulting Services for 2020

Dec 4, 2019

TASK OBJECTIVES

The objectives of Task No. 20 are as follows:

- A. Prepare the consolidated Annual Report for CY 2019
- B. Estimate the Operating Safe Yield for Calendar Year 2019
- C. Update groundwater model to include 2019 hydrologic data
- D. Provide general consulting support services during 2020

SCOPE OF SERVICES

Task 1 – Data Collection

The ALDA/TH&Co team will collect, compile, and tabulate the following data:

- ✓ Climate and hydrologic information
- ✓ Monitoring and data collection programs
- ✓ Monthly water production from member agencies
- ✓ Monthly imported water recharge by each party
- ✓ Monthly rainfall from the USGS, Army Corps, and/or National Weather Service
- ✓ Monthly static groundwater levels at dedicated monitoring wells and selected production wells from the water agencies
- ✓ Monthly deliveries of imported water, groundwater from other basins, and surface water diversions from various water agencies
- ✓ Semi-annual static groundwater levels from production wells
- ✓ Water quality information as documented in the California Department of Public Health database.
- ✓ Water quality information from the Beaumont Management Zone Maximum Benefit Program

Task 2 – Preparation of Consolidated Annual Report and Engineering Report

The expanded annual report will consolidate the topics discussed in previous annual reports and those included in the bi-annual Engineering Report. The ALDA/TH&Co team will prepare a draft and a final annual report documenting the operations of the Beaumont Basin Watermaster. This includes water levels, water transfers between agencies, water production, assessment of basin conditions, carryovers, replenishment obligations and water quality conditions throughout the basin. In addition, the report will incorporate the results of the Operating Safe Yield analysis, conducted under Task 3 and long-term hydrographs from selected wells in the basin. The report will also include the annual independent financial reports (prepared by others) and a description of Watermaster activities and Board actions.

With regards to water quality, the analysis will initially focus on Nitrate and TDS comparing them to Basin Objectives. In addition, the presence of selected constituents

Beaumont Basin Watermaster – Task Order No. 20
2019 Annual Report and Associated Consulting Services for 2020

Dec 4, 2019

in drinking water will be documented. The report will document current water quality concentrations in relation to current Federal and State Drinking Water Standards.

Ten color copies of the draft and final annual reports will be provided along with a digital file of the report. In addition, an editable database will be provided that includes all supporting information for the annual report.

Task 3 – Annual Determination of the Operating Safe Yield

The ALDA/TH&Co team will review groundwater levels, groundwater production, and groundwater recharge data for the Beaumont Basin area as a basis for determining the annual operating safe yield (OSY) of the basin for the Calendar Year 2019. The focus of the review will be groundwater level trends at the eight monitoring wells previously reported in the annual reports. Groundwater level trends will be evaluated in the context of groundwater production and basin and artificial recharge in order to make a determination of OSY.

The ALDA/TH&Co team will generate an Annual OSY Technical Memorandum (TM) that summarizes the analysis and provides a recommended OSY for the upcoming year. The TM will be suitable for incorporation into the Annual Report.

Task 4 – Update Groundwater Model to 2019 Conditions

The ALDA/TH&Co team will prepare and input the 2019 groundwater levels, groundwater production, and artificial recharge into the groundwater flow model for analysis. The model will be run with the updated data and the results analyzed to validate the calibration. The budget for this task assumes that additional calibration will not be necessary.

Task 5 – Review of Rules and Regulations

The ALDA/TH&Co team will review the existing Rules and Regulations annually to determine whether it reflects current policies/practices and will make recommendations that will be documented as part of the annual report.

Task 6 – Meeting Attendance and Agenda Assistance

The ALDA/TH&Co team will prepare for, attend, and participate in up to six (6) regular Watermaster meetings in 2020. In addition, the ALDA/TH&Co team will assist in agenda preparation as required by Watermaster.

SCHEDULE

A draft of the 2019 annual report and operating safe yield will be presented to the Beaumont Basin Watermaster at the February 2020 Board meeting. Comments on the draft annual report will be addressed and presented at the March 25, 2020 Board meeting. General consulting support services will be provided throughout the year.

COST ESTIMATE

Our estimated cost to perform the scope of work as outlined herein is \$95,970.00 (Ninety-Five Thousand Nine Hundred Seventy Dollars and 00/100); this estimate is based on 651 technical and administrative hours and is summarized in the attached table by task and sub-task. This cost is identical to similar task orders provided since 2017.

Billing rates for the 2020 Calendar Year are based on the new amended contract (2017) and are applicable through 2021.

Beaumont Basin Watermaster Billing Rates for Task Order No. 20

Billing Rates for ALDA Inc.

Billing rates for Task Order No. 20:

Position	Hourly Rate
Project Manager	\$180.00
Project Engineer	\$150.00
Staff Engineer	\$130.00
Graphics / Designer Drafter	\$ 95.00
Clerical	\$ 65.00

Billing Rates for Thomas Harder and Company

Billing rates for Task Order No. 20:

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



Beaumont Basin Watermaster - Task Order No. 20
Preparation of Expanded Annual Report and Operating Safe Yield for 2019
and General Support Services for 2020

Task / Subtask	ALDA Inc.		Thomas Harder & Co.				Total Hours	Cost (\$)
	PM	PE	Principal Hydrologist	Project Hydrologist	Staff Hydrologist	Clerk		
Task 1 - Data Collection	20	60					80	\$ 12,600
Task 2 - Preparation of 2019 Consolidated Annual Report and Engineering Report							276	\$ 39,480
2.1 - Document pumping for metered wells	4	8					12	\$ 1,920
2.2 - Document pumping for unmetered wells		2					2	\$ 300
2.3 - Document basin activities	12	8					20	\$ 3,360
2.4 - Develop groundwater contour maps	2		1	1	6	2	12	\$ 1,400
2.5 - Calculate change in storage	2		2	6	24	8	42	\$ 4,400
2.6 - Evaluate groundwater quality	20	44					64	\$ 10,200
2.7 - Incorporate long-term hydrographs	2	2					4	\$ 660
2.7 - Prepare draft report	16	40	2	8	12	12	90	\$ 12,560
2.8 - Prepare final report	8	16	2	4			30	\$ 4,680
Task 3 - Annual Determination of Operating Safe Yield							89	\$ 11,250
3.1 - Review of data for 2019			1	4	16		21	\$ 2,180
3.2 - Preparation of OSY TMs for 2019	16	8	6	20	6	4	68	\$ 9,070
Task 4 - Update GW Model to 2019 Conditions	8	8	2	12	24		54	\$ 6,720
Task 5 - Review of Rules and Regulations	8						8	\$ 1,440
Task 6 - Meeting Attendance and Agenda Assistance							144	\$ 24,480
5.1 - Assistance with agenda preparation	24	48	18				90	\$ 14,760
5.2 - Attend Watermaster meetings	30		24				54	\$ 9,720
TOTALS:	172	244	58	55	88	4	651	\$ 95,970

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 19-28

Date: December 4, 2019

From: Joe Zoba, Treasurer

Subject: 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.

A new task order is necessary to authorize ALDA Inc. to provide water level monitoring services in 2020.

The proposed scope of services for Task Order No. 21, provides for the identification of new monitoring sites and installation of related equipment and the operation, maintenance, and data collection at existing sites during calendar year 2020. It is anticipated that up to 18 monitoring sites will be operational in the Beaumont Basin during Calendar Year 2020.

The financial impacts associated with the proposed contract would result in a budget line item of approximately \$21,520.00, and if approved would result in an invoice sent to each Watermaster Committee member in the amount of \$4,304.00. It should be noted that the proposed budget is identical to 2018 and 2019's budget.

ALDA Inc.

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

Dec 4th, 2019

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

Subject: **Beaumont Basin Watermaster – Task Order No. 21
Installation, Maintenance, and Operation of Water Level Monitoring
Equipment**

Dear Mr. Zoba:

Please find attached our proposed scope of services and consulting fee for Task Order No. 21 under the Engineering Services contract with the Beaumont Basin Watermaster dated May 10, 2012 and amended in February 2017. The proposed scope of services includes a) coordination of equipment purchase and authorization from private owners, b) installation of monitoring equipment at additional sites, c) operations and maintenance of equipment at existing sites, and d) reporting to Watermaster Committee.

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

TASK OBJECTIVES

The objectives of Task No. 21 are as follows:

- A. Install Groundwater Level Monitoring Equipment at New Sites
- B. Conduct Operations and Maintenance of Existing Equipment
- C. Report Water Level Conditions to Watermaster Committee

SCOPE OF SERVICES

Task 1 – Selection of Sites and Equipment Acquisition

The ALDA team will select additional monitoring sites for installation of water level monitoring equipment. Selection of the final sites will be based on a number of parameters including location within the basin, distance to pumping wells, accessibility to site, and on-site improvements requirement amongst others. As part of this effort, the ALDA team will contact property owners as applicable to obtain authorization for installation of monitoring equipment.

Estimated Hours: 8 Hours

Estimated Cost: \$1,200.00

Task 2 – Installation of Monitoring Equipment

The ALDA team will install water level probes at each of the new selected sites. Required modifications at some of the well head sites, such as installation of plates, locks, measurement ports, etc., will be coordinated by the ALDA team to make sure all sites operate adequately and the monitoring equipment is secured.

In addition, groundwater level at each site will be determined to calibrate the monitoring probes individually.

Estimated Hours: 16 Hours

Estimated Cost: \$2,080.00

Maintenance of Selected Sites

The ALDA team will visit the selected sites every two months to download the collected data and to check that the probes are working as intended. In addition, probes will be calibrated twice a year. Close coordination with member agencies and selected private parties will be required to gain access to the sites during each visit. A total of six visits to each site is anticipated during Calendar Year 2020.

Estimated Hours: 64 Hours

Estimated Cost: \$9,600.00

Task 4 – Reporting to Watermaster

The information collected at the selected sites will be tabulated and presented at the Watermaster Committee meetings as a regular agenda item. In addition, water level histograms will be prepared and incorporated into the annual report.

Estimated Hours: 48 Hours

Estimated Cost: \$8,640.00

COST ESTIMATE

Our estimated cost to perform the scope of work as outlined herein is \$21,520.00 (Twenty-One Thousand Five Hundred Twenty Dollars and 00/100); this estimate is based on 136 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.

Billing rates for Task Order No. 21:

Position	Hourly Rate
Project Manager	\$180.00
Project Engineer	\$150.00
Staff Engineer	\$130.00
Graphics / Designer Drafter	\$ 95.00
Clerical	\$ 65.00

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 19-29

Date: December 4, 2019

From: Hannibal Blandon, ALDA Inc.

Subject: Status of the Preparation of the 2018 Annual Report

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

A draft of the 2018 Annual Report was presented to the Watermaster Committee meeting held on February 6, 2019. The preparation of the final report was delayed until transfers of water rights from an Overlying Party to an Appropriator Party were addressed and documented.

Through the adoption of Resolution No. 2019-02 at the Watermaster Committee Special Meeting, held on June 25, 2019, revisions to Section 7 of the Rules and Regulations were adopted to address the transfer of water rights. The new Section 7 revised Form 5 to document the adjustment of rights of an Overlying Party due to Proposed Provision of Water Service by an Appropriator.

On November 19, 2019, the Yucaipa Valley Water District's Board of Directors authorized the execution of Beaumont Basin Watermaster Form 5 related to the transfer of Overlying water rights from Oak Valley Development Company / Oak Valley Partners to the Yucaipa Valley Water District. The attached Form 5 documents the transfer of all original 1,806.00 ac-ft / revised 1,398.90 ac-ft ("Earmarked Water") effective October 9, 2018.

The above transfer continues to be an issue of discussion between some of the Watermaster Committee members; and has a direct impact on the finalization of the 2018 annual report. Some members indicate that the 2018 annual report should be limited to documenting issues and activities that took place during that calendar year; while others would prefer that the annual report includes the transfer of water rights, as documented above, since the transfer became effective on October 9, 2018.

Historically, revisions to annual reports that were adopted by the Watermaster Committee in previous years have been incorporated in the latest report(s). The ALDA Team recommends that the 2018 annual report be limited to documenting issues and activities that took place during that calendar year. Adjustment of water rights to the YVWD could be documented in the 2019 report by revising some portions of the report and updating water rights tables retroactively to 2018.

Beaumont Watermaster - Form 5

NOTICE TO ADJUST RIGHTS OF AN OVERLYING PARTY DUE TO PROPOSED PROVISION OF WATER SERVICE BY AN APPROPRIATOR

Please take notice that Yucaipa Valley Water District ("Appropriator") proposes to provide retail water service to Oak Valley Partners ("Overlying Owner") and that all original 1,806 / revised 1,398.90 acre feet ("Earmarked Water") of Overlying Water Rights will be transferred to the Appropriator when the Overlying Owner received water service on October 9, 2018.

Notice is hereby given that the Watermaster will reduce the Overlying Owner's Overlying Water Right(s) (as shown in Exhibit B, Column 4 of the Judgment and modified by the redetermination of safe yield) by the amount of Earmarked Water and adjust the Appropriative Water Rights of the Appropriator effective on the day when water service is first provided by the Appropriator.

OVERLYING OWNER

Oak Valley Development Company /
Oak Valley Partners

Overlying Party

John Ohanian

Authorized Agent – Print Name

Director of Development
Title

John Ohanian
Signature

11/18/2019

Date

Post Office Box 645

Calimesa, California 92320

Address for Notice

(909) 795-8941

Telephone

johanian@tvglc.com

Email Address

APPROPRIATOR

Yucaipa Valley Water District

Appropriator Party

Joseph B. Zoba

Authorized Agent – Print Name

General Manager

Title

Joseph B. Zoba
Signature

Nov. 19, 2019

Date

Post Office Box 730

Yucaipa, California 92399

Address for Notice

(909) 797-5119 x2

Telephone

jzoba@yvwd.us

Email Address

For Watermaster Use
Date Form is Received:
Date Earmarked Water is First Used:

Facts About the Beaumont Basin Watermaster

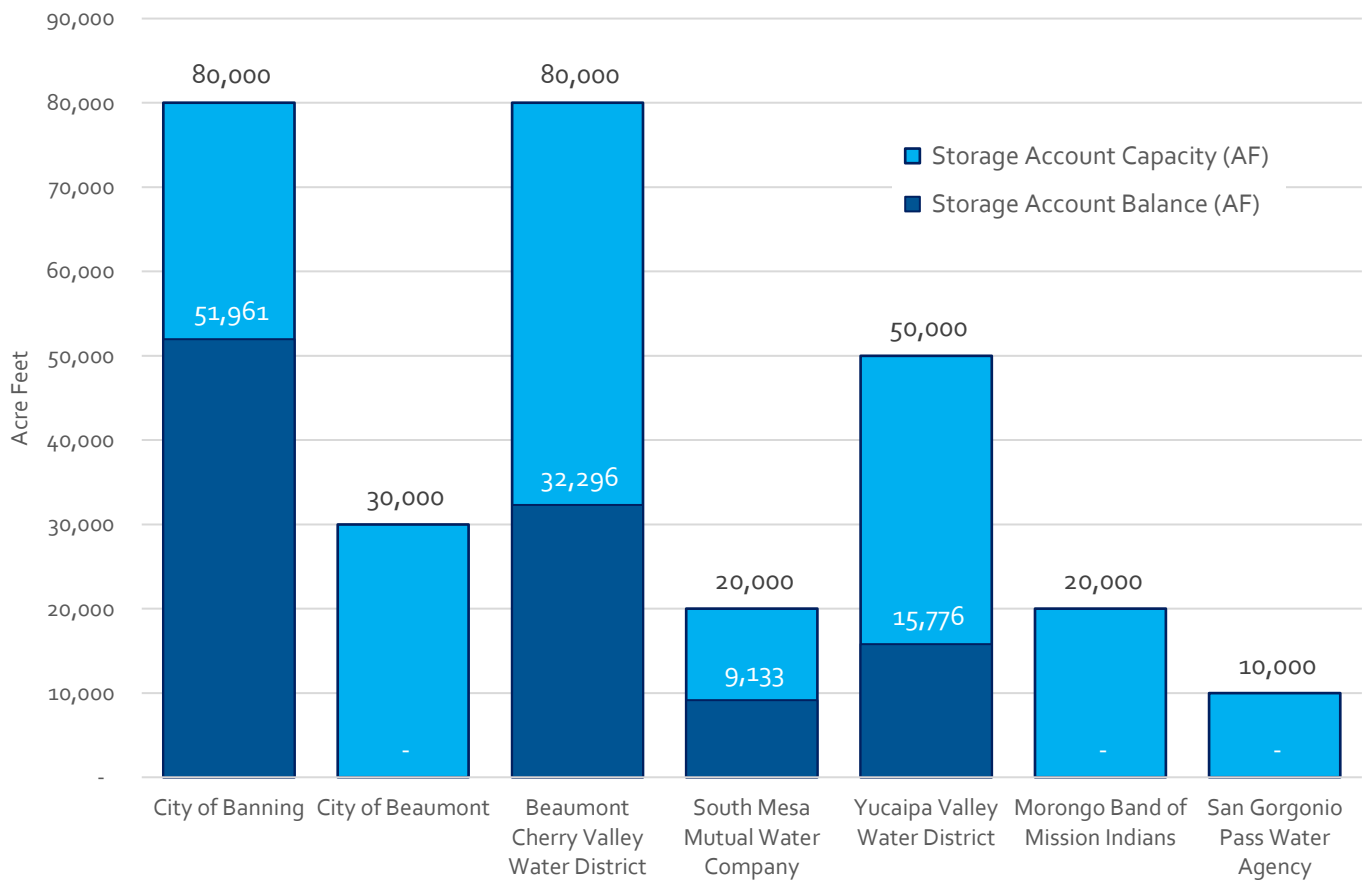
Authority and Formation: Case No. RIC 389197 – A Stipulated Agreement signed by Honorable Judge Gary Tranbarger of the Superior Court of the State of California, County of Riverside on February 4, 2004 (the “Judgment”).

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.

