

Beaumont Basin Watermaster

2023 Consolidated Annual Report and Engineering Report

FINAL

2023 Watermaster Board

Art Vela, City of Banning, **Chairman**

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Thomas Harder & Company in Association with ALDA Inc., **Engineering**

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October 2024

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October 2nd, 2024

Art Vela, Chairman
Beaumont Basin Watermaster
560 Magnolia Avenue
Beaumont, CA 92223

Subject: **Beaumont Basin Watermaster
Final Consolidated Annual Report and Engineering Report for
Calendar Year 2023**

Dear Mr. Vela:

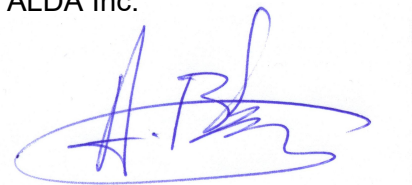
ALDA Inc., in association with Thomas Harder & Co. is pleased to submit to you, as Chairman of the Beaumont Basin Watermaster Committee, the Beaumont Basin Watermaster Consolidated Annual Report and Engineering Report for Calendar Year 2023. This final report summarizes all production, spreading, water rights issues, and storage activities that took place during calendar year 2023. Further, it documents changes in water levels and storage conditions, as well as an estimate of the Basin Operating Safe Yield for 2023. Finally, the report presents an evaluation of water quality conditions for all domestic wells during the 2019-2023 five-year period.

This final report incorporates comments received on the April 17th, 2024 Draft of the report, discussed at the June 5th, 2024 Regular Meeting under Technical Memorandum 24-17. A copy of comments received and our response to comments is included under Appendix H of this final report.

Should you have any questions on this matter, please contact us at 909-587-9916 during normal business hours.

Very truly yours

ALDA Inc.



F. Anibal Blandon, P.E.
Principal

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Abbreviations

ac-ft	acre-feet
ac-ft/yr	acre-feet per year
Banning	City of Banning
Basin	Beaumont Basin
BCVWD	Beaumont-Cherry Valley Water District
BMZ	Beaumont Management Zone
Beaumont	City of Beaumont
CDPH	California Department of Public Health
CVCOI	Cherry Valley Community of Interest
CY	Calendar year
FY	Fiscal year
GAMA	Groundwater Ambient Monitoring and Assessment
GQEC	Beaumont Board of Supervisors' Groundwater Quality Evaluation Committee
IRWMP	Integrated Regional Water Management Program
MCL	Maximum Contaminant Level
NL	Notification Level
NTU	Nephelometric Turbidity Units
OSWDS	On-Site Waste Disposal Systems
RCMHP	Rancho Calimesa Mobile Home Park
SGPWA	San Gorgonio Pass Water Agency
SMHOA	Sharondale Mesa Home Owner's Association
SMWC	South Mesa Water Company
STWMA	San Timoteo Watershed Management Authority
STWMP	San Timoteo Watershed Management Program
SWP	State Water Project
TDS	Total Dissolved Solids
UCR	University of California, Riverside
USEPA	United States Environmental Protection Agency
Watermaster	Beaumont Basin Watermaster Committee
YVWD	Yucaipa Valley Water District

Section 1

Background

The 2023 Consolidated Annual and Engineering Report of the Beaumont Basin Watermaster Committee (Watermaster) consolidates the information about the basin initially presented in Annual Reports with the information presented in the bi-annual Engineer's Report. Section 2 of this report documents legal and financial activities as well as minutes of meetings that took place in CY 2023. Section 3 documents the Status of the Basin and Administration of the Judgment and provides a status of conditions in the basin addressing water production, water levels, recharge of supplemental water, water transfers, and storage activities. Current and historical water quality conditions are documented in Section 4. Section 5 briefly discusses the potential for land subsidence in the basin.

1.1 History of the Beaumont Basin Stipulated Judgment

In January 2001, the City of Beaumont (Beaumont), the Beaumont-Cherry Valley Water District (BCVWD), the South Mesa Water Company (SMWC), and the Yucaipa Valley Water District (YVWD) formed the San Timoteo Watershed Management Authority (STWMA). One of the initial tasks of STWMA was to develop a watershed-wide program to develop and implement a comprehensive management program for the San Timoteo watershed.

Phase I of the management program, documented in the San Timoteo Watershed Management Program, Phase I Report (WEI, 2002), included the following goals:

- ✓ Enhancing water supplies
- ✓ Protecting and enhancing water quality
- ✓ Optimizing the management of STWMA area groundwater basins
- ✓ Protecting riparian habitat in San Timoteo Creek and protecting/enhancing habitat in the STWMA area
- ✓ Equitably distributing the benefits and costs of developing the Integrated Regional Watershed Management Program for the San Timoteo watershed

One of the elements identified in the management plan to achieve the listed goals consisted in the establishment of a groundwater management entity for the Beaumont Basin. As a result of this initiative, two groups representing overlying users and water agencies with interest in this basin began negotiations in May 2002.

Over the next 18 months of negotiations, a Stipulated Agreement was developed and submitted to the Court. Honorable Judge Gary Tranbarger of the Superior Court of the State of California for the County of Riverside signed the Agreement, titled "San Timoteo Watershed Management Authority, vs. City of Banning, et al." (Case No. RIC 389197), on February 4, 2004, (the Judgment).

Pursuant to the Judgment, the Court appointed a five-member Watermaster Committee, consisting of representatives from each of the Appropriator parties: City of Banning, City of

Beaumont, Beaumont Cherry Valley Water District (BCVWD), South Mesa Water Company (SMWC), and Yucaipa Valley Water District (YVWD). The effective date of the Judgment for accounting purposes was retroactively established to July 1, 2003.

The Court gave the responsibility of managing the Basin to the Watermaster by approving the Stipulated Agreement but retained continuing jurisdiction should there be any future need to resolve difficult questions among the Parties.

1.2 Essential Elements of the Judgment

Elements of the 2004 Judgment are as follows:

- ✓ All producers shall be allowed to pump sufficient water from the Basin to meet their respective requirements.
- ✓ The Safe Yield of the Basin was established at 8,650 ac-ft/yr to be distributed among the Overlying Producers. The Safe Yield of the Basin is to be re-evaluated every 10 years, at a minimum.
- ✓ The Overlying Parties can extract a combined total of 8,650 ac-ft/yr with individual rights set for each Overlying Producer in an amount up to that set forth in column 4 of Exhibit B of the Judgment. If an Overlying Party pumps more than five times its share of the operating Safe Yield in any five consecutive years, the overlying producer shall provide Watermaster with sufficient funds to replace the overproduction.
- ✓ When an Overlying Party receives water service by an Appropriator Party, the Appropriator Party providing such service shall have the right to produce the volume of water foregone by the Overlying Party.
- ✓ A controlled overdraft of the basin was allowed to create enough additional storage capacity to prevent the waste of water. This controlled overdraft, also known as *Temporary Surplus*, allows Appropriators to extract up to 160,000 ac-ft of water from the basin over the 10-year period immediately following the Judgment inception. The Temporary Surplus ceases after the initial 10 years of operations.
- ✓ During the first ten years after adoption of the Judgment, the Appropriators have the right to extract, as a whole, a maximum of 16,000 ac-ft/yr not including storage credits from spreading supplemental water or transfers from Overlying Parties. The Temporary Surplus was divided among the Appropriators as follows:
 - Beaumont Cherry Valley WD 42.51 percent or 6,802 ac-ft/yr
 - City of Banning 31.43 percent or 5,029 ac-ft/yr
 - South Mesa Water Company 12.48 percent or 1,997 ac-ft/yr
 - Yucaipa Valley Water District 13.58 percent or 2,173 ac-ft/yr
- ✓ After the first 10 years of operation, Appropriators can extract only the amount each has in storage or credited to them.

- ✓ The Watermaster shall levy and collect assessments in each year, in amounts sufficient to purchase replenishment water to replace Overproduction by any Party from the prior fiscal year.
- ✓ The Watermaster has the authority to enter into Groundwater Storage Agreements with local and regional agencies for the storage of supplemental water, wellhead protection and recharge, well abandonment, well construction, monitoring, replenishment, mitigation of overdraft, and collection of assessments.
- ✓ Supplemental replenishment water can be in the form of recycled water, imported State Project Water, or other imported water. Replenishment can be accomplished by spreading and percolation, injection, or in-lieu use of surface water or imported water.
- ✓ A minimum of 200,000 ac-ft of groundwater storage capacity was reserved for conjunctive use. Any person, party to the Judgment can make reasonable beneficial use of the groundwater storage capacity for storage of supplemental water provided that it is in accordance with a storage agreement with Watermaster.
- ✓ Minimal producers, those producing less than 10 ac-ft/yr from the basin, and not listed in the Judgment, are exempt from the provisions of the Judgment.

1.3 2023 Legal Rulings Relating to the Judgment

There were no legal rulings relating to the Judgment during CY 2023.

1.4 Watermaster Responsibilities

Under the Judgment, the Watermaster is granted discretionary powers to develop and implement a groundwater management plan for the Beaumont Basin, including water quality and quantity considerations and being reflective of the provisions of the Judgment.

In carrying out its duties, Watermaster is responsible for providing the legal and practical means of ensuring that the waters of the Basin are put to maximum beneficial use. Specific responsibilities are summarized below.

1.- Administer the Beaumont Basin Judgment. Watermaster operates under the Judgment and the Rules and Regulations, originally adopted June 8, 2004. The Rules and Regulations have been amended a number of times since with the most recent amendment in December 2022, as documented under Resolution 2022-09. The Judgment and the Rules and Regulations establish the procedures by which Watermaster accounts for the water resources of the Basin. Watermaster has the power to collect administrative assessments from all Appropriators and replenishment assessments from those parties (Appropriative and Overlying) pumping in excess of their pumping right to fund its operations. Each year, Watermaster publishes an Annual Report, which documents groundwater production, recharge activities, water transfers between Appropriators, transfers of water rights from an overlying member to an appropriator in the Beaumont Basin.

2.- Approve Producer Activities. All producers must notify and obtain approval, as necessary, from Watermaster for activities, such as recharging water, transferring or exchanging water, storing local water, and storing or recovering supplemental water.

3.- Maintain and Improve Water Supply. On an annual basis, Watermaster determines the amount of groundwater that each producer is entitled to pump from the Basin without incurring a replenishment obligation. Further, Watermaster is responsible for facilitating and coordinating the acquisition, recharge, and storage of imported water or other local supplemental water to replenish and/or conjunctively manage the Basin to increase local supplies.

4.- Monitor and Understand the Basin. Watermaster is responsible for collecting information from producers, and other cooperating agencies, in order to enhance its knowledge of how the Basin works and manage it more effectively. Information collected by the Watermaster includes:

- ✓ Water production, water level, and water quality information from the Appropriator Parties.
- ✓ Water production and water level information from the Overlying Parties.
- ✓ Water level and water quality data collected by local agencies as part of their Maximum Benefit and Monitoring Program for the Beaumont Management Zone.
- ✓ Ground surface elevations from periodic surveys conducted to determine whether ground subsidence may be occurring as a result of over pumping from the basin.

5.- Maintain and Improve Water Quality. Watermaster coordinates and participates in local efforts to preserve and/or enhance the quality of groundwater in the Basin. It assists and encourages regulatory agencies to enforce water quality regulations that may have an effect on the Basin groundwater sources and its surrounding resources. One of these programs is the Maximum Benefit Monitoring Program of the Beaumont Management Zone.

6.- Develop and Administer a Well Policy. Watermaster is responsible for developing a policy on the proper construction and abandonment of wells in the Basin. Through the adoption of Resolution 2004-04, the Watermaster adopted minimum standards for the construction, repair, abandonment and destruction of groundwater extraction wells in the Beaumont Basin. As part of this resolution, Watermaster adopted Riverside County Ordinance No. 682.3 and expanded it to require the installation of a sounding tube in order to facilitate the measurement of water levels on all future wells.

7.- Develop Contracts for Beneficial Programs and Services. Watermaster is responsible for developing and entering into contracts for programs and services that are beneficial to the Basin on behalf of the Parties to the Judgment. This includes programs for conjunctively utilizing the Basin for the storage of supplemental water with other agencies and programs to implement and expand the direct or indirect use of recycled water.

8.- Provide Cooperative Leadership. Watermaster may act jointly or cooperate with other local, state, and/or federal agencies to develop and implement regional scale programs for the management of the Basin and its surrounding resources.

1.5 Watermaster Address

For the purposes of conducting Watermaster business and maintaining records, Watermaster's official address remains as follows:

Office of the Watermaster Secretary
C/O Beaumont-Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

1.6 Watermaster Website

Watermaster website address is www.beaumontbasinwatermaster.org. This website is maintained by YVWD and it is used by the Watermaster to communicate its activities to the Parties and the public. The website contains copies of the Judgment, the Rules and Regulations, Annual Reports, and Engineer's Reports. In addition, it contains meeting minutes, meeting agendas, and other documents of interest.

1.7 Mission Statement

Watermaster adopted the following mission statement in October 2004:

"Watermaster's mission is to manage the yield of and storage within the Beaumont Basin to provide maximum benefit to the people dependent on it."

Section 2

Watermaster Activities

2.1 Makeup of the Watermaster Committee

During the February 1, 2023 Regular meeting of the Beaumont Basin Watermaster, the current Watermaster Committee Officers were re-affirmed to their respective positions for 2023 as follows:

- ✓ Mr. Art Vela – Chairman
- ✓ Mr. Dave Armstrong – Vice Chairman
- ✓ Mr. Dan Jagers – Secretary
- ✓ Mr. Joseph Zoba – Treasurer

The Watermaster Representatives serving each Appropriative Party at the end of CY 2023 were as follows:

Agency	Representative	Alternate
City of Banning	Art Vela	Nathan Smith
City of Beaumont	Vacant	Robert Vestal
Beaumont Cherry Valley Water District	Daniel Jagers	Mark Swanson
South Mesa Water Company	Dave Armstrong	Britanny Lim
Yucaipa Valley Water District	Joseph Zoba	Jennifer Ares

Legal counsel during CY 2023 was provided by Alvarado Smith APC, represented by Keith McCullough and Thierry Montoya, while Engineering Services were provided by Thomas Harder & Company, represented by Thomas Harder, in association with ALDA Inc., represented by Anibal Blandon.

2.2 Watermaster Accomplishments and Activities During 2023

2.2.1 Watermaster Meetings

A total of six regular meetings were held during CY 2023 on the following dates:

- ✓ February 1, 2023
- ✓ June 7, 2023
- ✓ October 4, 2023
- ✓ April 5, 2023
- ✓ August 2, 2023
- ✓ December 6, 2023

In addition, there were two Special Meetings on July 13, 2023 and November 1, 2023.

Agendas for each of the above regular and special meetings can be viewed at and/or downloaded from Watermaster's website or by making a request to the Watermaster Secretary. Pursuant to Resolution 2009-01, all of Watermaster's public records are open for inspection during office hours, provided that a written request to inspect said records has been submitted.

2.2.2 Watermaster Committee Resolutions

There was one resolution adopted by the Watermaster Committee during CY 2023. Resolution 2023-01. A copy of this resolution is included under Appendix A to this report.

The Resolution adopted during CY 2023 is described as follows:

- ✓ **Resolution No. 2023-01** – A Resolution of the Beaumont Basin Watermaster Recognizing the Designation of a Specific Amount of Overlying Water Rights to Specific Parcels. Resolution was adopted at the June 7th, 2023 Regular Meeting of the Watermaster Committee by unanimous vote.

2.2.3 Items Discussed in 2023

This section is a summary of topics addressed at Watermaster meetings during CY 2023. The Beaumont Basin Watermaster maintains official meeting minutes that report the items discussed and actions taken during normal and special meetings. Signed official copies of the minutes for all regular and special meetings that took place during the year are included in Appendix B. Official meeting minutes may also be accessed at the Beaumont Basin Watermaster website: www.beaumontbasinwatermaster.org

The following items were discussed during the six regular meetings and two special meetings held in CY 2023 along with their resulting outcome.

Items Discussed During the February 1, 2023 Regular Watermaster Committee Meeting

- ✓ ***Consideration Reorganization of the Beaumont Basin Watermaster Committee – Chair, Vice Chair, Secretary and Treasurer [Memorandum 23-01].*** The current Watermaster Committee Officers were re-affirmed to their respective positions for 2023. Motion was approved unanimously
- ✓ ***Financial Status Report [Memorandum 23-02].*** Member Zoba recommended that this item be placed in the Consent Calendar in the future. He pointed out the list of task orders and suggested discussion at the next meeting regarding deprogramming some of the funds in those tasks that are no longer functional. No action was required.
- ✓ ***Independent Accountants Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster [Memorandum 23-03].*** Member Zoba explained that there is so little activity for this group, that an independent account's report is provided rather than an audit. He briefly reviewed the report. Motion to approve Financial Report for the period ending June 30, 2022 was approved unanimously.

- ✓ *Request for Proposals for Licensed Surveyors to Survey Wells in the Beaumont Basin Monitoring Network [Memorandum 23-04].* Mr. Stuart reported that water elevations at well points throughout the basin may be off by tens of feet and suggested conducting a well survey to improve accuracy. Members Armstrong, Jaggars, and Zoba indicated that they had surveyed some of their facilities and will provide data. Mr. Stuart will evaluate the data and determine any gaps or weaknesses to be addressed in the survey. Member Hart asked about coordination with SGPWA, Mr. Stuart suggested collaboration with the SGPWA and the USGS. Chairman Vela invited public comment, there was none.
- ✓ *Development of Data Management System [Memorandum 23-05].* Mr. Stuart called attention to the importance of development of a data repository of all information collected in a GIS-based graphical interface for everyone to access. Member Armstrong asked about what the system would do and about cost. Mr. Stuart indicated that it will bring all the data together and make it accessible; he further explained that ESRI software would be used and estimated a cost of \$50,000. Member Zoba indicated that a similar tool is being used in the Yucaipa Basin with success and that it is long overdue for this adjudicated basin. Member Jaggars requested that the proposal include three-to-five year maintenance cost. Chair Vela invited public comment; SGPWA manager Eckhart advised that this is a modern tool that is needed in this Basin and it is worth the effort and SGPWA would be happy to partner. A motion to authorize Dudek to prepare a proposal to develop a GIS-based Data Management System for the Beaumont Basin was approved unanimously.
- ✓ *Items Discussed During the April 5, 2023 Regular Watermaster Committee Meeting*
 - ✓ *Certification of Groundwater Production, Imported Water Spreading, and Change in Storage in the Beaumont Groundwater Basin during Calendar Year 2022 [Memorandum 23-06].* Member Jaggars reminded that upload of the data was required by April 1 and BCVWD has done so. A motion for certification was introduced and approved 4-0 as Chair Vela was absent.
 - ✓ *2022 Consolidated Annual Report and Engineering Report – Presentation of Draft Report [Memorandum 23-07].* Mr. Blandon highlighted a number of issues during the presentation related to production, groundwater levels, water transfers between Appropriators, imported water, precipitation, wastewater discharges and water in storage. In addition, he summarized the various resolutions that took place during the year as well the financial information for Fiscal Year 2023.

Mr. Harder discussed the 2022 operating safe yield and noted a year-to-year decline in storage of about 10,600 ac-ft. He also reported long-term declines in groundwater levels at several wells. Member Jaggars indicated that BCVWD did not pump Well 29 in 2022 in an attempt to balance the Basin. Based on water levels and storage changes, Mr. Harder estimated the operating safe yield for 2022 at about 7,000 ac-ft/yr contrasted with 7,900 ac-ft/yr for 2021.

Member Armstrong asked if the management zones would affect storage accounts. Mr. Harder explained all would have to add up to the whole; it is just a matter of managing different areas differently.

Mr. Blandon presented the data on water quality and offered a number of recommendations related to groundwater storage losses, recycled water recharge, accuracy and consistency of data reporting, and the implementation of a water meter maintenance program.

Mr. Blandon requested comments by May 12 in order to be addressed at the June 7 meeting. All comments will be included as an appendix to the Annual Report.

- ✓ *Transfers of Water Rights to Beaumont-Cherry Valley Recreation and Park District [Memorandum 23-08].* Mr. Stuart advised that the BCVRPD is acquiring six parcels, combined 123 acres of land, donated by a developer. Along with the land, 300 ac-ft/yr of water rights are being transferred as part of Sunny Cal North rights transferred from Sunny Cal Egg and Poultry Company. Legal Counsel Montoya advised that there is still uncertainty and when approved it should be done through a resolution. Vice Chair Armstrong tabled the item to be brought back as a resolution at the June meeting.
- ✓ *Update of Well Survey Project and Request for Proposals for Licensed Surveyors to Survey Wells in the Beaumont Basin Monitoring Network [No Written Report].* Vice Chair Armstrong reminded the Committee of previous discussion. Mr. Stuart indicated that he is seeking information from the various agencies. Mr. Jagers noted that if data is needed from City of Beaumont wells, they can be included in BCVWD survey.
- ✓ *Proposal for Development of Data Management System and Demonstration [Memorandum 23-09].* Mr. Palavido of Dudek demonstrated a web-based application consisting of a GIS map-based interface for information on wells. Member Jagers indicated that the five BBWM agencies will share the initial cost and ongoing maintenance costs. Mr. Palavido indicated that most of the maintenance cost is for ESRI licensing. Members discussed taking this item to their Boards and brought back when the City of Banning is in attendance.
- ✓ *Approval of Expenditures related to Public Records Act Request [Memorandum 23-10].* Member Jagers explained that some records may not be readily available. This request is related to the reassessment of SAWPA's groundwater activities. Mr. Harder explained the content of the request for groundwater wells, which will take some effort to put together. Counsel Montoya clarified that SAWPA is entitled to the documents and this is a question of reimbursement of Mr. Harder's time. The expenditure was approved unanimously by present members.

Items Discussed During the June 7, 2023 Regular Watermaster Committee Meeting

- ✓ *Consideration of the Watermaster Budget for Fiscal Year 2023-24 [Memorandum 23-12].* Chair Vela noted that the recommendation is for approval of a budget for fiscal year 2023-24 of \$36,950. Year to date expenses total \$17,934. The Watermaster budget was approved on a 5-0 vote.
- ✓ *Resolution 2023-__ : Recognizing the Designation of a Specific Amount of Overlying Water Rights to Specific Parcels (Transfer of Water Rights to Beaumont-Cherry Valley Recreation Park and District) [Memorandum 23-13].* Mr. Stuart explained the resolution transferring rights. He indicated that the parcels to which the water rights were transferred per Resolution 2006-02 were identified, and those corresponding parcel numbers are now being transferred to BCVRPD and correspond with the parcels identified in Exhibit B of the Judgment. With the revised safe yield of 2013, the water right of 232.4 ac-ft/yr will be transferred. Resolution 2023-01 was approved unanimously.
- ✓ *Transfer of Overlying Water Rights from Oak Valley Partners to Yucaipa Valley Water District [Memorandum 23-14].* Mr. Stuart provided some background on the transfer of all Oak Valley Partners under Resolution 2017-02 including YVWD transferring water rights in 2018 and 2019 for specific tracts and the litigation that took place in 2021.

In 2023, YVWD submitted five Form 5 representing transfers from CY 2018 to CY 2022 and totaling 790.38 ac-ft. Counsel Montoya said he confirmed with Member Zoba that the water provided was for the parcels identified in Resolution 2017-02. He added that there is clear accounting on the BBWM side and recommended the transfer be approved.

Chair Vela noted that documentation did not indicate specific phases or tracts being served and that he would like to confirm that the water delivered is outside of the tracts noted in previous Form 5 and that these are new developments for which transfers have not been accepted. After much discussion on the issue, Vela cautioned against double counting.

Member Jagers said he would like confirmation that figures are a true accounting of water supplied and he prefers the method where it is known where the water goes and approximate amounts, and there is a handle of it rather than general aggregate activities. He further added that the submittal did not follow the past process and clarifications are needed before receiving and filing. Member Ares noted this is a matter of interpretation, and the recommendation is to receive and file, not to approve. Member Jagers posited that the current Form 5 do not provide the information as required by Resolution 2017-02 and requested clarity.

Member Ares moved to receive and file, there was no second. Member Jagers offered a substitute motion to receive and file with further documented clarification and further discussion, resolution, and adherence to the format of Resolution 2017-02. The motion was second and passed 4-1.

- ✓ *2022 Consolidated Annual Report and Engineering Report – Presentation of Comments Received on Draft Report [Memorandum 23-15].* Mr. Blandon reviewed comments provided by BCVWD and noted that the impact of YVWD's Form 5 submittal would be documented in the final report. Given the discussion in the previous item, Mr. Blandon indicated that it is not imperative to have the annual report approved at this meeting. Chair Vela tabled the item to the next meeting. Mr. Blandon requested agencies to submit comments by mid-July.
- ✓ *Proposal for Development of Data Management System [Memorandum 23-16].* Mr. Stuart reminded of the presentation of the proposal at the May meeting and discussed the need for some members to present the proposal to their respective Boards. Chair Vela indicated support and noted there is benefit and value for the cost. Mr. Eckhart (SGPWA) professed support and recommended his agency to participate with an equal share of with the Watermaster members. The proposal was approved unanimously.
- ✓ *Update on Well Survey Project and Request for Licensed Surveyors to Survey Wells in the Beaumont Basin Monitoring Network [No Written Report].* Mr. Stuart reported that information has only been provided by SMWC. Member Jagers explained that BCVWD has contacted one of its contractors to obtain the data in short order.
- ✓ *Discussion of Agenda Items for Proposed July Special Meeting / Workshop [Memorandum 23-17].* Mr. Harder reminded the Committee about an October 2021 presentation on storage and storage balances. Accounting of Basin storage losses was discussed at that time. A workshop was held in March 2022 and a follow up workshop is recommended in July. Mr. Harder made a number of recommendations of topics for discussion. Member Jagers asked about further refinement of the model and discussion of new SGPWA recharge facilities. Mr. Harder said that he did not envision analysis, but more of a big picture of what happens in term of extractions and the way that the Basin is operated.

Items Discussed During the July 13, 2023 Special Watermaster Committee Meeting

- ✓ *Development of the Committee Vision for the Basin.* Mr. Stuart reviewed the current Mission Statement and suggested a vision statement to lead how the Watermaster may perceive its role in the future. Chair Vela suggested coming back to this issue in the future.
- ✓ *Production from Storage Accounts that Prevents Impact.* Mr. Harder indicated concern about the pumping out of all water in storage at the same time which could lead to visible impacts / undesirable results. He stated that while overall the basin looks good, on the west side the change in storage has been negative and prompted the Committee where to go from here.

There was much discussion about what to do and manage the basin with Member Jagers pointing out that Well 29 has been shut off on the west side in an effort to extract from the east side and that recharge will be needed on the west side.

Member Zoba discussed the potential management zones and expressed concern about production impacts. He pointed out that the storage accounts have signaled to the development community that there is plenty of water available when water levels have dropped. Mr. Harder agreed with Member Zoba that serious action to correct the deficiency should be taken.

- ✓ *Possible Delineation of Management Zones in the Basin.* Mr. Harder presented the proposal for two management zones based on the difference in hydrogeology, and the advantages and disadvantages. Member Jagers pointed out some complications that would need to be addressed and noted the positive effects of groundwater recharge activities.
- ✓ *Preliminary Identification and Prioritization of Issues.* Mr. Harder recommended developing a preliminary idea of which is most important. Chair Vela recommended continued discussion on storage losses while Member Jagers noted that they are all intertwined and recommended a big picture approach. Member Zoba pointed to the SGMA process as a logical step to determine if the Basin is sustainable. Mr. Eckhart indicated that part of the plan should be production wells and a capture zone to manage the eastern boundary. Member Jagers indicated that sharing water opportunities with Banning and wheeling water to the west side to balance the basin are things to talk about. Mr. Harder suggested preparing an outline of the SGMA process and applying to the Beaumont Basin for the next workshop.

Items Discussed During the August 2, 2023 Regular Watermaster Committee Meeting

- ✓ *Presentation by San Geronio Pass Water Agency General Manager Lance Eckhart [No Written Report].* Mr. Eckhart described the SGPWA role as a State Water Contractor and noted that the agency is at the end of the SWP line. He indicated that SGPWA portfolio includes carryover water in the San Luis Reservoir and a water deal with the City of Ventura for 10,000 ac-ft for the 2022-42 period and 5,075 ac-ft of Article 21 water. He discussed a number of state-wide projects to increase reliability and discussed ongoing analyses regarding water banking, recharge, and other options to maximize the ability to import water. He emphasized this is a time of resource uncertainty and change, and said it is important to band together, look at assets and mutual strengths, and try to leverage those as a group.
- ✓ *2022 Consolidated Annual Report and Engineering Report –* Mr. Bandon provided background on comments received and presented the revised draft report. In response to Mr. Stuart regarding production rights by Appropriators, Table 3-8 of the report was modified to include a column to include production rights.

Member Zoba suggested that Appropriators should advise regarding the category from which water is being taken rather than have an automatic process. Mr. Bandon explained the calculations and reiterated this has never been done. Member Zoba suggested further discussion and possible addition to the Rules and Regulations. Member Jagers suggested a full review of the Rules and Regulations to modernize and

to handle such issues, creating a road map to success. Mr. Blandon assured that every issue and comment has been addressed. The 2022 Consolidated Annual and Engineering Report was approved unanimously.

- ✓ *Discussion / Clarification of Overlier Transfer Process.* Member Jaggars reminded of prior discussion indicating that YVWD did not appear to be following Resolution 2017-02. Mr. Stuart recommended a supplement to Form 5 as a table that compares current APNs to those listed in 2003 to determine which parcels are being served and better track the amount of water delivered.
- ✓ *Discussion Regarding the Structure of the Watermaster Committee and Inclusion of Elected Representatives as Primary Members [Memorandum 23-21].* In the previous meeting, Member Hart brought up the idea of having a discussion on the structure of the Committee; he would like to have elected representatives serve as primary members of the Committee. Member Jaggars noted that the responsibility for operations of the district is with the General Manager, he recommended following the outline in the Judgment. Counsel Montoya confirmed that any revisions to the Judgment would have to be amended and approved by the Court. After much discussion, Member Jaggars noted that this can be considered during any revisions to the Rules and Regulations.
- ✓ *Update on Development of Data Management System [No Written Report].* Mr. Stuart noted that online licensing with ESRI is underway; he is working on collecting well information for the Watermaster. A demonstration of the preliminary version will be done at the October meeting.
- ✓ *Update on Well Survey Project for Wells in the Beaumont Basin Monitoring Network [No Written Report].* Mr. Stuart said that he is still looking for well information from BCVWD and YVWD. Mr. Jaggars noted that BCVWD is in the process of hiring a survey company.
- ✓ *Discussion of Agenda Items and Special Meeting Data for Proposed September Workshop [No Written Report].* Member Jaggars noted that positive and negative feedback was received on the workshop format and that he had ordered eight microphones for the next meeting. Member Zoba suggested that instead of agendizing the meeting as a workshop, it should be as a special meeting so actions can be taken.

Items Discussed During the October 4, 2023 Regular Watermaster Committee Meeting

- ✓ *Letter of Support for the Brookside West Recharge Facility WaterSMART Planning and Design Grant [Memorandum No. 23-24].* Member Jaggars advised of a request from SGPWA for a letter of support for their Brookside West project. Motion was approved unanimously on a 4-0 vote as the City of Beaumont was absent.
- ✓ *Discussion on Process for Documenting the Transfer of the Overlying Water Rights of Oak Valley Partners to Yucaipa Valley Water District [No staff report].* Member Zoba indicated that YVWD prepared a series of letters covering calendar years 2018 through 2022, which include data for each lot for the water actually served within the

area identified on Resolution 2017-2. Member Jaggers indicated that he had reviewed the data and seems appropriate.

- ✓ *Transfer of Overlying Water Rights from Oak Valley Partners to Yucaipa Valley Water District for Calendar Years 2018, 2019, 2020, 2021, and 2022 [Memorandum No. 23-25].* Member Jaggers advised that the accounting seems appropriate and reasonable, and the process can be refined moving forward. Legal Counsel Montoya indicated that he was comfortable with the process. Mr. Stuart suggested that if this process is to be used, the Rules and Regulations can now be amended to reflect proper documentation. The motion to receive and file the transfer of Overlying Water Rights from Oak Valley Partners to YVWD for Calendar Years 2018-2022 and to update the appropriate records in the 2023 Annual Report was approved unanimously.
- ✓ *Discussion on Calculating Appropriator's Production Right and Storage Accounting [Memorandum No. 23-26].* Mr. Blandon presented a revised Table 3-8 reflecting a second and third bucket and discussed options. There was much discussion on the various sources of water and storage account used and whether the Temporary Surplus water may have a time frame attached. Chair Vela said he would like to avoid an artificial burden on the Watermaster if an agency wanted to pay the Watermaster rather than tap into the storage account. Member Jagger suggested next discussion on SGPWA as a vehicle for the Watermaster, and to have a system of acquiring money and how that system is managed responsibly. Mr. Zoba suggested adding to a future agenda what to do when a producer goes negative.
- ✓ *Update on Safe Yield Reset of the Beaumont Basin [Memorandum No. 23-27].* Mr. Harder discussed in detail the groundwater flow model being updated and indicated that the Safe Yield will be determined based on the forecast of pumping and recharge conditions for the next 10 years. Water demands will be based on estimates from the Urban Water Management Plan. He recommended achieving the best estimate of how to manage the Basin moving forward and adjusting as necessary in the future. There was much discussion on uncertainty analysis, injection of recycled water and its impact on water quality.

In response to Chair Vela's question about the physical split of the Basin into two sections, Mr. Harder discussed the physical bifurcation of the Basin and indicated that a zone analysis will be done. He suggested the purpose of the data could be to determine what kind of projects are needed on the west side of the Basin to balance.

Mr. Harder indicated that preliminary results will be presented at the next workshop with the final safe yield estimate presented at the regular December meeting.

- ✓ *Discussion Regarding Structure of the Watermaster Committee and Inclusion of Elected Representatives as Primary Members, and Process for Nomination of Members by Participating Agencies [Memorandum No. 23-28].* Mr. Stuart highlighted the discussion of Committee membership in the judgment. After much discussion, the consensus of the Committee was to leave the structure as is.

- ✓ *Consideration to Incorporate Notification and Documentation Requirements for New Wells in the Watermaster Rules and Regulations [Memorandum No. 23-29].* The recommendation that the Watermaster Committee consider engaging Dudek to revise the Rules and Regulations to address this issue was approved unanimously on a 4-0 vote.
- ✓ *Update on Development of Data Management System [No staff report].* Mr. Palavido stated that the database and interface are in progress, presented preliminary maps, and indicated the system is about 50 percent complete. He provided an overview and demonstrated system capabilities and data.
- ✓ *Consideration of Professional Administrative and Technical Support Services to the Beaumont Basin Watermaster for Calendar Year 2024 [Memorandum No. 23-30].* Member Zoba stated that working with Dudek is working well and recommended extension of the contract through a separate task order for 2024. Motion was approved on a 4-0 vote.
- ✓ *Consideration of Thomas Harder & Co. Task Order No. 3 for Preparation and Attendance at Special Committee Meetings [Memorandum No. 23-31].* There was overall agreement on the job that Mr. Harder has done with Member Jagers commenting that the work is needed to support the workshops. This motion was approved on a 4-0 vote.
- ✓ *Discussion of Agenda Items and Special Meeting Date(s) for Proposed Workshops [2023 and 2024 Calendars].* Mr. Stuart reviewed topics and open format for the workshops. The Committee set an schedule for November 2023, January 2024 and March 2024. The schedule was approved unanimously on a 4-0 vote.
- ✓ *Notice of Planned Well Drilling in the Beaumont Basin from Beaumont-Cherry Valley Water District [Correspondence].* Member Jagers presented the letter as formal notification to memorialize BCVWD's plans, as outlined in the Rules and Regulations.

Items Discussed During the November 1, 2023 Special Watermaster Committee Meeting

- ✓ *Update on the Safe Yield Determination.* Mr. Harder reported that work is proceeding on the safe yield. He discussed the model and its calibration and explained the program and the running of multiple models, and statistical range. Currently, the model is running 200 different scenarios, and staff will recommend the 50th percentile.
- ✓ *Mission and Vision Statement.* Mr. Stuart read the mission statement, reviewed the stipulated Judgment, and broached the potential for a water management plan including a goal or goals.
- ✓ *Watermaster Goal for the Basin.* Chair Vela noted value in the discussion and in goal setting while bearing in mind the judgement as the underlining document. Some suggestions provided by Committee Members include to maintain current water levels

in the Basin, or analyze and determine an acceptable threshold, or restore Basin to the 2004 levels or another baseline.

Mr. Harder suggested a baseline as a means to evaluate different scenarios, then discussion of the appropriate use of water.

- ✓ *Compare Conditions in the Beaumont Basin to SGMA Sustainability Criteria.* Mr. Harder posited that the SGMA approach is a process with helpful things to achieve a sustainable Basin. He reiterated the recharge imbalance between the eastern and western portions of the Basin and posed questions, does the potential extraction of the storage account balances present a potential for undesirable results, and what are the implications for not accounting for storage losses? If the balances are drawn to zero, will an untenable position be created, and what is the untenable position?
- ✓ *Identify Next Steps.* Much discussion ensued with a number of issues discussed including:
 - Wells are finite and there is lack of State Project Water
 - The SGPWA may not always be there to rely on
 - How will SPW be divided in the future
 - Work will be better as a group, by utilizing all resources to maximize success
 - How to manage and prevent adverse effects
 - What is the future and what is sustainable? Create a new forecast
 - Impacts of AB 606 and SB 1668 (including Urban Water Management Plans)
 - Look at realistic operational ranges of the 30-mile Basin
 - Identify issues that prevent achieving beneficial use of groundwater for all users
 - Achieve long-term groundwater sustainability
 - System for early acknowledgement of any collapsing of the Basin without waiting for the redetermination
 - Prioritization of SGPWA supply when SPW is not available and/or storage accounts are at zero

Items Discussed During the December 6, 2022 Regular Watermaster Committee Meeting

- ✓ *Proposal by Thomas Harder and Company / Alda to Provide Engineering and Reporting Services in 2024 [Memorandum 23-32].* The proposal to provide Engineering and Reporting Services was approved unanimously on a 4-0 vote as the City of Beaumont was not present. The proposal was for a sum not to exceed \$95,960.00.
- ✓ *Proposal by Thomas Harder and Company / Alda to Groundwater Level Monitoring Services in 2024 [Memorandum 23-33].* The proposal to provide Groundwater Level

Monitoring Services was approved unanimously on a 4-0 vote. The proposal was for a sum not to exceed \$28,120.00.

- ✓ *Update on the Safe Yield Reset of the Beaumont Basin [Memorandum 23-34].* Mr. Harder advised this is still in progress and hopes to present it at the January meeting.
- ✓ *Review of Appropriator Production Right Calculation [Memorandum 23-35].* Mr. Stuart explained that this is the measure of determining whether or not a particular Appropriator would have to apply replenishment water or funds for replenishment. He reviewed several sections and concepts in the Judgment and requested direction from the Committee. Discussion touched on:
 - Possible limit in time on surplus water
 - Physical Solution would include looking at overall production of all Appropriators in the Basin vs. the surplus
 - New Yield
 - Order of operation of water usage / Appropriator's Production Right
 - Imported water and storage account management
 - Develop a process of accounting
- ✓ *Update on Development of Data Management System [No Staff Report].* Mr. Palavido shared the major updates since the last meeting including groundwater elevation readings and production information for the wells.

2.2.4 Redetermination of Safe Yield

Under the Judgment (2003) the Safe Yield of the Beaumont Basin was established at 8,650 ac-ft/yr. to be distributed among the Overlying Producers. The Judgment indicates that the Safe Yield shall be redetermined at least every 10 years beginning 10 years after the date of entry of the Judgment (February 4, 2004).

At the February 2013 Watermaster meeting, the Watermaster Committee authorized a study to develop a hydrologic model of the groundwater basin to be used as a tool in the re-evaluation of the Safe Yield of the basin. At the February 2015 Watermaster Committee meeting a formal presentation of the final-draft document was made to provide members of the Committee with an opportunity to ask questions and addressed any unresolved issues. The final document was presented for approval and adoption at the April 2015 Watermaster Committee meeting.

Resolution No. 2015-01 was adopted at the April 1st, 2015 Regular Watermaster Committee meeting. Through this resolution, the Final 2013 Reevaluation of the Beaumont Basin Safe Yield Report and Redetermination of the Safe Yield of the Beaumont Basin were adopted.

The Beaumont Basin Watermaster Committee re-determined the Safe Yield of the Beaumont Basin to be 6,700 ac-ft per year.

More recently, at the October 5, 2022, the Watermaster Committee awarded a contract to Thomas Harder and Company to provide technical support services to the Watermaster over a three-year period beginning in 2023. One of the initial tasks to be conducted was the re-evaluation of the Safe Yield of the basin. The completion of this study, initially estimated for 2023, has been delayed and its completion is anticipated in early 2024. The results of the study will be documented in the 2024 Consolidated Annual Report and Engineering Report of the Beaumont Basin Watermaster in early 2025.

2.3 Storage Applications and Agreements

The first applications to use the Basin for storage purposes were approved in FY 2005-06 when Watermaster approved applications by the City of Banning, BCVWD, SMWC, and YVWD to store up to 135,000 ac-ft of water in the Basin. The City of Beaumont's application to store water was approved by Watermaster in FY 2007-08 bringing the total storage allocation to 157,000 ac-ft. In FY 2009-10, Watermaster approved additional applications by the City of Banning, BCVWD, the City of Beaumont, and YVWD to increase the total storage allowed to 260,000 ac-ft. It is our understanding that the Watermaster Committee has not yet amended the respective Storage Agreements to reflect the current storage limits.

An application for a storage agreement was received by the Watermaster from the San Geronio Pass Water Agency (SGPWA) in mid-2010 and brought for discussion at the summer of 2012. The initial application was rejected because it was incomplete.

An application for a storage agreement was also received from the Morongo Band of Mission Indians at the December 2012 meeting. The Watermaster Committee deemed the application incomplete and requested further information from the applicant to address questions posed by members of the Committee. This application was subsequently approved at the June 5, 2013 meeting allowing the Morongo Band of Mission Indians to store up to 20,000 ac-ft of imported water in the basin.

A new application for Groundwater Storage Agreement was developed in early 2013; the application was presented and discussed at several Watermaster Committee meetings where input was received, and questions were addressed. The new application was approved by the Watermaster Committee in August 2013 and will be used for future applicants.

After development of new forms and procedures, a new application by SGPWA was received in early 2016 to develop a Groundwater Storage Agreement. This application was discussed over several Watermaster Committee meetings and was approved at the June 7, 2017 regular meeting under Resolution 17-01. The approval of this application allows SGPWA to store up to 10,000 ac-ft of imported water in the Beaumont Groundwater Basin.

As of December 31, 2023, the total storage allowed stands at 290,000 ac-ft; storage limits by participant are presented below. Amounts of water in storage by participant are discussed under Section 3.

✓ City of Banning	80,000 ac-ft
✓ City of Beaumont	30,000 ac-ft
✓ Beaumont Cherry Valley WD	80,000 ac-ft
✓ South Mesa Water Company	20,000 ac-ft
✓ Yucaipa Valley Water District	50,000 ac-ft
✓ Morongo Band of Mission Indians	20,000 ac-ft
✓ San Geronio Pass Water Agency	10,000 ac-ft

2.4 Rules and Regulations

The original Rules and Regulations of the Watermaster were adopted on June 8, 2004. The Judgment provides for their periodic update as deemed necessary by the Watermaster. On September 9, 2008, the Watermaster adopted Rule and Regulation 7.8, entitled “Availability of Unused Overlying Production and Allocation to the Appropriator Parties”. The objective of this rule is to define the process through which unused production by Overlying Parties is allocated to the Appropriator Parties. The unused water will be allocated based on each Appropriator’s percent share of the operating Safe Yield, as described in Exhibit C of the Judgment. This allocation will have no impact on the legal water rights owned by the Overlying Parties in subsequent years. The initial allocation to take place on or after February 4, 2009.

Under Resolution 2012-01, the Rules and Regulations were amended. Under this resolution, Rule 2.2 under Section 1 was amended to indicate that the Watermaster shall conduct regular meetings on the first Wednesday of every even numbered month. Special meetings and workshops may be called as necessary to conduct the business of the Watermaster.

Under Resolution 2019-02, adopted on June 25, 2019, the Beaumont Basin Watermaster rescinded Section 7 of the Beaumont Basin Watermaster Rules and Regulations in its entirety and replaced it as provided in Attachment A of the resolution. Under this resolution, the Beaumont Basin Watermaster also updated Form 5 entitled, “Notice to Adjust Rights of an Overlying Party due to Proposed Provision of Water Service by an Appropriator” and Form 7 entitled, “Notice to Transfers of Appropriator Production Right of Operating Yield Between Appropriators” as provided in Attachment “A” to the resolution.

The latest change to the Rules and Regulations came under Resolution 2022-09, adopted on December 7, 2022, by which the Beaumont Basin Watermaster amended Section 3. Under this resolution, the Watermaster desires to establish groundwater level measuring and reporting procedures that provide a foundation for the collection and reporting of groundwater level data that is accurate and consistent between all owners of wells included in the Beaumont Basin monitoring well network. In addition, a methodology for communicating with

private well owners and documenting requests to access their wells is provided under the resolution. A new Section 3.3 entitled “Groundwater Level Measuring and Reporting Procedures” along with a new Form 9 entitled “Water Level Field Form” have been included under the revised Rules and Regulations. The latest amended Rules and Regulations are included under Appendix C of the 2022 Consolidated Annual and Engineering Report.

2.5 Active Party List

Part VII, Paragraph 1 of the Judgment, indicates that Watermaster shall maintain an updated list of parties to whom notices are to be sent for service. Said list should include names, addresses for the Parties or their successors. The active party list has been updated with input by Legal Counsel, a copy of the updated list has been included under Appendix C.

2.6 Financial Management

The Watermaster must develop and administer a budget for all administrative, operational, and capital costs it incurs. The following discussion summarizes the budget established for the Fiscal Year 2023 operations.

2.6.1 Budget

Final expenses for Fiscal Year 2021-22 were \$111,229.00, significantly lower than final expenses for Fiscal Year 2022-23 at \$293,303.21. The budget for Fiscal Year 2023-24 was approved at the June 7, 2023 Watermaster Committee regular meeting under Memorandum 23-12. The approved budget provided funding for operating expenses in the amount of \$36,950.00. The approved budget is substantially lower than previous years since Watermaster had an operating fund balance of \$377,154.94 as of April 30, 2023. The approved budget did not include any funds for Special Projects; the Watermaster Treasurer will send invoices to Watermaster Committee members when task orders are approved throughout the year.

The following table presents a comparison between the final expenses for FY 2021-22 and FY 2021-23, as well as the approved budget for FY 2023-24.

<i>Operating Expense</i>	<i>FY 2021-22 Final Expenses</i>	<i>FY 2022-23 Final Expenses</i>	<i>FY 2023-24 Approved Budget</i>
<u>Administrative Expenses</u>			
Bank Fees and Interest	\$ 14.00	\$ -71.49	\$ 50.00
Miscellaneous and Meetings	\$ 0.00	\$ 0.00	\$ 250.00
Acquisition/computation & Annual Report	\$ 50,615.00	\$ 86,682.50	\$ 0.00
Annual Audit	\$ 0.00	\$ 1,550.00	\$ 1,650.00
Engineering Services	\$ 17,515.00	\$ 150,700.00	\$ 0.00
Monitoring and Data Acquisition	\$ 4,899.00	\$ 36,375.20	\$ 0.00
Meter Installation and Repair	\$ 0.00	\$ 0.00	\$ 0.00
Legal Expenses	\$ 38,186.00	\$ 18,067.00	\$ 25,000.00
Reserve Funding	\$ 0.00	\$ 0.00	\$ 10,000.00
	\$ 111,229.00	\$ 293,303.21	\$ 36,950.00
<u>Special Project Expenses</u>			
Engineering	\$ 0.00	\$ 0.00	\$ 0.00
Litigation	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00	\$ 0.00	\$ 0.00
Total Operating Expense	\$ 111,229.00	\$ 293,303.21	\$ 36,950.00

2.6.2 Financial Audit

The Beaumont Basin Watermaster has a financial audit performed annually on a fiscal year basis. The audit assists in properly accounting for the revenues and expenses of the Watermaster and tracking the financial resources of the agency. The detailed audit report for FY 2023, dated June 30, 2023, prepared by Rogers, Anderson, Malody, and Scott, LLP, is included under Appendix D.

Section 3

Status of the Basin and Administration of the Judgment

The Beaumont Basin Watermaster Committee is responsible for the accounting of water activities in the Beaumont Basin including groundwater production, recharge of supplemental water, groundwater transfers and other storage activities. From the Judgment inception, accounting was conducted on a fiscal year basis until 2011.

Through the adoption of Resolution No. 2011-01, on September 21, 2011, Watermaster changed the accounting from a fiscal year basis to a calendar year basis starting in CY 2011. The conversion of Fiscal Year basis to Calendar Year basis was documented in the Annual Report for CY 2011 adopted by the Committee in early 2013. This Consolidated Annual and Engineering Report for CY 2023 builds on the information presented in previous annual reports.

3.1 Climate, Hydrology and Hydrogeology

3.1.1 Climate

The Beaumont Basin is located in a semi-arid region characterized by warm summers and mild winters with average summer high temperatures in the mid to upper 90s (Fahrenheit) and average winter low temperatures in the mid to low 40s. Precipitation in the region occurs as snowfall in the upper elevations of the San Bernardino Mountains to the north and rainfall in the Basin. Annual precipitation in the Beaumont Basin, as recorded at the County of Riverside's Beaumont Station 013, averaged 16.77 inches over the 100-year period between 1924 and 2023. On average during this 100-year period, 11.72 inches of precipitation, or 69.9 percent of total, fell during the winter months between December and March. Over the last 25 years (1999-2023), precipitation has averaged 13.30 inches of rain which is approximately 79 percent of the 100-year average precipitation. Precipitation during CY 2023 at Station 13 was 22.33 inches, over three times the precipitation recorded in CY 2022 at 6.79 inches and the third highest recorded precipitation in the last 25 years. Annual precipitation in CY 2023 represents 133 percent of the 100-year average and 168 percent of the 25-year average.

Figure 3-1 illustrates annual precipitation at Station 13 for the 25-year reporting period between 1999 and 2023 including a plot of the cumulative departure from the mean (CDFM) precipitation. This parameter is used to assess the occurrence, duration, and extent of wet and dry precipitation cycles. Upper trending periods in the graph represent periods with above average precipitation such as the 2003-05 period; average precipitation during this period was 19.94 inches or close to 19 percent above the long-term average. Conversely, down trending periods indicate below average precipitation as in the 2011-18 period when average precipitation was only 11.23 inches or approximately 67 percent of the 100-year average.

Notwithstanding the significantly above average precipitation recorded in 2010 (24.85 inches) and in 2019 (23.34 inches), the Basin has been in a dry period that began in 1999. During this period, precipitation in seven of these years has been below 10 inches per year. In addition,

the lowest and second lowest precipitation years ever recorded occurred during this 25-year period.

It should be noted that the average precipitation during the base period (1997-2001) used to determine the Safe Yield of the Basin was 13.43 inches, approximately 20 percent lower than the 100-year long-term average for the Basin.

3.1.2 Surface Water Hydrology

There are three significant drainage systems that overlie the Beaumont Basin: the San Timoteo Creek drainage system which is tributary to the Santa Ana River; the Potrero Creek drainage system in the San Jacinto watershed; and the Smith Creek drainage system tributary to the Whitewater River which is part of the Salton Sea drainage basin.

Surface water flows originate in the San Bernardino Mountains to the north of the Basin. The streams and creeks that flow into the Beaumont Basin are dry for most of the year with occasional runoff during rainfall events. There are no stream gages in the Basin that can be used to estimate surface water recharge to the Basin or discharge from the Basin.

3.1.3 Hydrogeology

3.1.3.1 Regional Geologic Context

The Beaumont Basin is located in the San Geronio Pass, a low-relief highland that is bordered on the north by the San Bernardino Mountains, on the southeast by the San Jacinto Mountains, and on the west by the San Timoteo Badlands. Surface sediments in the Beaumont Basin and nearby lowlands consist of unconsolidated to semi consolidated Quaternary alluvium. Surrounding the alluvial sediments are semi consolidated rocks of the San Timoteo Formation and igneous and metamorphic rocks that make up the San Jacinto and San Bernardino Mountains (see Figure 3-2). The San Timoteo Formation is composed primarily of sandstone, conglomerate, siltstone, and mudstone (Rewis, et al., 2007). The igneous and metamorphic rocks form the crystalline basement rocks in the area (Bloyd, 1971). The unconsolidated Quaternary alluvium and the upper portion of the underlying San Timoteo Formation constitute the water-bearing aquifer of the Beaumont Basin (Rewis, et al., 2007).

3.1.3.2 Faults

The boundaries of the Beaumont Basin are based on faults that often form barriers to groundwater flow (Bloyd, 1971). Major faults in the area include the Banning and Cherry Valley faults, which form the northern boundary of the basin (see Figure 3-2). Groundwater levels within the Beaumont Basin are generally lower than groundwater levels in the surrounding areas. Along the Banning Fault, groundwater levels on the north side of the fault and outside the basin are as much as 400 ft higher than groundwater levels on the south side of the fault and inside the basin. The same condition has been observed along the southern Beaumont Basin boundary. The southern boundary of the basin was postulated by Bloyd (1971) based on groundwater level differences in the area. No fault has ever formally been mapped at this southern boundary. The San Timoteo Fault was identified by USGS (2006) but does not correlate to the adjudicated boundary.

3.1.3.3 Groundwater Occurrence and Flow

Groundwater in the Beaumont Basin occurs at depth in the Quaternary alluvium and the underlying San Timoteo Formation. Groundwater flow within the Beaumont Basin generally depends on location with respect to a groundwater flow divide which occurs in the center of the basin, approximately coincident with the Noble Creek drainage (see Figure 3-2). West of the Noble Creek drainage, groundwater generally flows to the northwest and ultimately as underflow beneath San Timoteo Wash. East of the Noble Creek drainage, groundwater flows to the southeast towards the City of Banning.

The groundwater system in the Beaumont Basin is replenished from multiple sources. These include:

- ✓ Infiltration of precipitation within the unlined portions of natural streams
- ✓ Subsurface seepage across fault boundaries
- ✓ Return flow from irrigation and individual septic systems
- ✓ Artificial recharge in man-made basins (e.g. Noble Creek Recharge Facility).

Groundwater discharges from the Beaumont Basin primarily occur from:

- ✓ Groundwater production
- ✓ Underflow out of the basin at the downgradient margins
- ✓ Rising water in San Timoteo Creek
- ✓ Evapotranspiration

3.2 Production

The Beaumont Basin Watermaster Committee is responsible for the tracking and accounting of groundwater production by all producers named in the Judgment regardless of the amount of groundwater produced. Other producers, not listed in the Judgment, and pumping less than 10 ac-ft /yr., also known as minimal producers, are exempt from the provisions of the Judgment. Figure 3-3 illustrates the location of all production wells that belong to the Appropriators and Overlying parties of the Judgment.

3.2.1 Appropriative Party Production

There are five Appropriative Producers: namely, City of Banning, City of Beaumont, BCVWD, SMWC, and YVWD. The City of Beaumont, while identified as an Appropriator in Exhibit C of the Judgment, has never produced from the Basin and it has a zero allocation as a percent share of Safe Yield allocated to Appropriators. The amount that each Appropriator produces in any given year, without incurring a replenishment obligation, varies from year to year and results from a combination of:

- ✓ Their share of the Operating Yield, based on the Temporary Surplus of 16,000 ac-ft/yr for all Appropriators; applicable only between Fiscal Years 2004 and 2013

- ✓ Transfers from other Appropriators,
- ✓ Transfers of unused production from Overlying Producers,
- ✓ Conversion of Overlying rights to Appropriative rights,
- ✓ Water withdrawn from their storage account, and
- ✓ New yield created by the Appropriator.

Monthly production for the last five years of operation (CY 2019-23) are presented in a series of tables starting with Table 3-1A for CY 2019 and continuing on an annual basis through Table 3-1E for CY 2023. It should be noted that all production by Appropriators is currently being metered; however, no information is available as to the accuracy of existing meters.

During CY 2023, Appropriators pumped a combined amount of 12,709.10 ac-ft of groundwater from the Beaumont Basin (See Table 3-1E). Production for this year was significantly lower than during CY 2022 when 17,345 ac-ft were pumped or approximately 27 percent lower. CY 2023 production was only 81 percent of the five-year average (2019-23) and the lowest production since CY 2016.

With the exception of YVWD, production by all agencies was lower in CY 2023 than in CY 2022. Production by the City of Banning and BCVWD were 63 percent and 18 percent lower respectively than the previous year while SMWC produced 52 percent less. Conversely, YVWD produced 30 percent more than in CY 2022.

In mid-2021, YVWD notified Watermaster that they will be using an old irrigation well, known as the Calimesa Irrigation Well, to provide construction water to an industrial development north of Cherry Valley Blvd. Production from this well, now known as the I-10 Logistics well, continued over the first quarter of 2022 and it is listed in Table 3-1D. No production from this well was reported during CY 2023; its location is depicted in Figure 3-3.

3.2.2 Overlying Party Production

Overlying Parties are defined in the Judgment as persons, or their assignees, that are part of the Judgment and who are owners of land which overlies the Beaumont Basin and have exercised Overlying Water Rights to pump therefrom. Overlying Parties include successors in interest and assignees. Overlying Producers were assigned a share of the Basin's Safe Yield, estimated in 2003 at 8,650 ac-ft/yr. Individual Overlying Producers may not pump more than five times their assigned share of the Basin's Safe Yield in any five-year consecutive period without incurring a replenishment obligation.

Currently, there are 17 Overlying Producers in the Basin pumping from 21 groundwater wells. All active wells operated by the larger producers are metered. Meters were installed by individual owners or as part of an effort initiated by Watermaster in 2013 to obtain a closer production accounting from Overlying Parties. Production from metered wells represented over 99 percent of the total production by Overlying Parties in CY 2023.

The remaining wells, operated by smaller producers, did not have meters for some or most of 2023 and their production is estimated using the water duty method. This method was initially proposed by Wildermuth Environmental Inc. (WEI), during the preparation of the 2005-06 Annual Report. After being accepted by the Committee, an updated water duty method was developed by WEI and it has been used since. The estimate of unmetered production for the CY 2023 Annual Report uses the updated method as detailed in Appendix E.

Similar to the production reported for the Appropriators, a series of tables were developed to report monthly and annual production from the Overlying Parties on a calendar year basis. Starting with Table 3-2A, monthly production by overlying well is documented for CY 2019. In a similar manner, Tables 3-2B through 3-2E summarize monthly overlying production for CY 2020 through CY 2023, respectively. In addition, these tables show their share of the Safe Yield and the amount of unused water for each Overlying Party.

During CY 2023, Overlying Producers produced an estimated 1,517.50 ac-ft, 617.10 ac-ft lower than the reported production for CY 2022 of 2,134.60 ac-ft. Compared to the 2019-23 five-year average of 1,860.70 ac-ft, production in CY 2023 was only 82 percent of the average. Production in CY 2023 by Overlying Parties was the lowest level of production since the Judgment inception.

3.2.3 2003-2023 Annual Production Summary

Annual production for all Appropriators and overlying parties for the last 10 calendar years is summarized in Table 3-3. In previous annual reports this table has been split into an A and B parts to report annual production since CY 2003. Starting with CY 2023, the annual report will only document the last 10 years of production from the basin. Production prior to 2014 has been extensively documented in earlier annual reports.

Since July 2003, a total of 334,435 ac-ft has been pumped from the Beaumont Basin; an estimated 84.9 percent of this total has been pumped by Appropriators. The percentage of groundwater production from Appropriators has steadily increased since the Judgment inception from a low of 74.3 percent registered in CY 2003 to a temporary high of 87.2 percent recorded in CY 2014. Production by Appropriators reached an all-time high of 90.1 percent in CY 2021. Over the last five years, production by Appropriators has averaged 89.4 percent of total extractions.

Groundwater production peaked in CY 2007 when 19,811 ac-ft were pumped from the basin; since, it declined steadily through CY 2010 to approximately 13,620 ac-ft. Production during the CY 2011-14 period increased by 26.2 percent to 17,281 ac-ft.; however, it declined to less than 14,000 ac-ft in the ensuing two years. Total production from the basin increased significantly in the CY 2018-22 five years to an all-time high of 19,938 ac-ft in CY 2021, slightly higher than the 2007 peak; however, it decreased by over 5,000 ac-ft in CY 2023 to an annual total of 14,227 ac-ft which represents the lowest level of production since CY 2016. Figure 3-4 depicts annual total production by Appropriators and Overlying parties on a calendar year basis. Also, depicted on this figure is the amount of annual Overlying underproduction to be allocated to Appropriators (See Section 3.4.4).

3.3 Groundwater Recharge

The Watermaster is responsible for maintaining an annual account of all water artificially recharged in the Beaumont Basin and any losses of water supplies or Safe Yield resulting from such recharged water. Sources of groundwater recharge include imported water from the State Water Project (SWP), recycled water, and new yield sources developed in the basin since the Judgment inception in July 2003. The Watermaster has maintained the accounting of groundwater recharge; however, losses from the basin, estimated in the Beaumont Basin Storage Analysis (Sept 2018), have not been incorporated into the accounting of storage in the basin. The Watermaster may adopt a policy to address storage losses in the future. Table 3-4 presents a summary of the annual groundwater recharge in the Beaumont Basin since 2004 on a calendar year basis. There was no imported water recharge in 2003.

3.3.1 State Water Project Water Recharge

Deliveries of imported water are conducted through the San Geronio Pass Water Agency, the State Water Contractor for this area. BCVWD's Noble Creek Recharge Facility (NCRF), located in the vicinity of Beaumont Avenue and Cherry Valley Blvd., was until 2018 the primary facility in the Beaumont Basin where imported water could be delivered for groundwater recharge. The location of this recharge facility is depicted in Figure 3-3. In 2019, SGPWA completed the construction of a new spreading facility southwest of the intersection of Beaumont Avenue and Brookside Avenue; spreading of imported water at this location took place for the first time in December of that year when 257.80 ac-ft were spread.

BCVWD began taking deliveries of imported water for groundwater recharge in the Fall of 2006 when 3,501 ac-ft were spread pursuant to the storage and recharge agreement on file with Watermaster. Deliveries of imported water for BCVWD increased over the next five years peaking in CY 2011 at 7,979 ac-ft and declining through 2015 to a low of 2,773 ac-ft. From CY 2017 through CY 2020, BCVWD spread over 10,000 ac-ft per year; however, spreading in CY 2021 decreased to a low of 2,468 ac-ft and in CY 2022 to an all-time low of 1,776.0 ac-ft. The significant reduction in imported water for groundwater recharge in those two years has been primarily related to the lack of available water from the SWP. However, in CY 2023, thanks to a significantly above average precipitation in the northern portion of the State, BCVWD was able to spread 18,000 ac-ft of SWP project water. In total, 131,136 ac-ft of imported water have been spread on behalf of BCVWD since CY 2006, as listed in Table 3-4.

The City of Banning began purchasing imported water for recharge at BCVWD's NCRF in July 2008 and has since recharged 14,977.2 ac-ft. in accordance with their storage agreement on file with Watermaster. During CY 2012 and 2013, Banning spread an average of 100 ac-ft per month; spreading in CY 2014 and 2015 was reduced to approximately half of that amount. However, spreading in CY 2016 and 2017 increased significantly to 1,477 ac-ft and 1,350 ac-ft, respectively. In CY 2019 and again in CY 2020, the City of Banning spread only 250 ac-ft of imported water per year while no spreading took place in CY 2021. In CY 2023, the City of Banning spread 1,000 ac-ft of imported water.

In addition to imported water deliveries to BCVWD and the City of Banning at BCVWD's NCRF, SGPWA has also delivered significant quantities of imported water at the Little San

Gorgonio Creek Spreading Ponds. These spreading ponds are located outside the adjudicated boundary of the Beaumont Basin, as shown in Figure 3-3. Spreading of imported water at these spreading ponds is likely to be a source of subsurface recharge to the Beaumont Basin; however, Watermaster has not adopted this finding. Subsurface recharge across the Banning Fault was investigated as part of the Safe Yield of the Basin determination study, completed in early 2015.

Deliveries of imported water by SGPWA to the Little San Gorgonio Creek Spreading Ponds began in August 2003. Between 2004 and 2013, SGPWA recharged a total of 10,464 ac-ft or an average of 1,046.4 ac-ft/yr. Deliveries in CY 2014 through CY 2018 were practically non-existent as less than 44 ac-ft were spread in those five years combined.

Under Resolution 17-01, adopted on June 7, 2017, SGPWA entered into a storage agreement with the Beaumont Basin Watermaster to store up to 10,000 ac-ft of imported water in the Beaumont Basin subject to certain conditions. Starting in CY 2019, SGPWA began spreading imported water at their new facilities on Brookside Avenue through the Mountain View Turnout. In CY 2023, SGPWA spread 9,220.1 ac-ft at this location primarily for BCVWD and the city of Banning. No spreading by SGPWA has taken place at the Little San Gorgonio Creek Spreading Ponds since CY 2016.

3.3.2 Treated Wastewater Recharge

The City of Beaumont owns and operates the Beaumont Wastewater Treatment Plant. The plant was originally designed and permitted to discharge up to 4.0 mgd of tertiary treated wastewater; current capacity is 6.0 mgd. Discharges from this plant are not permitted for recycled water use at this time and are currently regulated under Order No. R8- 2015-0026, NPDES Number CA105376.

Prior to March 2010, Beaumont's treated wastewater from Wastewater Treatment Plant No. 1 was discharged at Discharge Point No. 1 (DP-001) in Cooper's Creek where it infiltrated into the San Timoteo Management Zone and outside the Beaumont Basin. Starting in March 2010, Beaumont began deliveries of treated wastewater to Discharge Point No. 7 (DP-007), located along an unnamed tributary of Marshall Creek, as shown in Figure 3-3. It is believed that a portion of the treated wastewater discharged at this location reaches and recharges the Beaumont Basin. In the Fall of 2015, the City of Beaumont ceased deliveries to DP-007 in Marshall Creek and continued to use the discharge facilities at Discharge Point No. 1 only.

Treated wastewater discharges from this plant peaked during CY 2020 at 4,305 ac-ft (3.83 mgd). Discharges have declined over the last three years to an annual average of 3,958 ac-ft; in CY 2023 a total of 3,790 ac-ft of treated wastewater was discharged.

Monthly discharges at DP-001 varied slightly in CY 2023 from a low 3.22 mgd in February to a high of 3.53 mgd in August; the average for the year was 3.38 mgd. Monthly treated wastewater discharges by the City of Beaumont since 2007 are summarized in Table 3-5.

3.3.3 New Yield Stormwater Recharge

Before accounting for any new yield resulting from the recharge of local surface water, not initially considered as part of the Basin Safe Yield, Watermaster needs to develop a methodology to quantify and credit the New Yield to the party that creates the new recharge. According to Part VI Paragraph 5.V of the Judgment, Watermaster shall make an independent scientific assessment of the estimated new yield created by each proposed project. It is our understanding that the City of Beaumont has been recharging local waters at various locations in the Basin and would like to receive credit for the New Yield developed. For the City of Beaumont to receive credit however, Watermaster will need to develop the methodology to compute and credit the New Yield.

3.4 Water Transfers and Adjustments of Rights

Section 7 of the Watermaster Rules and Regulations, as replaced by Resolution 2019-02 in June 2019, provides for the adjustment of rights by and between Appropriators and Overlying Parties. This section indicates that Watermaster shall maintain an accounting for all transfers and include said transfers in the Annual Report or other relevant documents. There are three types of transfers that Watermaster accounts for:

- ✓ Transfer of water rights and/or water in storage between Appropriators
- ✓ Transfer of water rights from Overlying producers to an Appropriator in exchange for water service, and
- ✓ Allocation of unused Overlying Water to the Appropriator Parties based on their share of the Operating Safe Yield.

According to Part VI, Administration, Paragraph 5Y of the Judgment, the Safe Yield of the Beaumont Basin shall be re-determined at least every 10 years after the date of entry of the Judgment, February 4, 2004. In 2015 the Safe Yield of the Beaumont Basin was re-determined and estimated at 6,700 ac-ft/yr. This amount represents a 22.54 percent reduction from the previous estimate of 8,650 ac-ft/yr. Table 3-6 presents the initial and revised production rights from individual Overlying producers and compares them against actual groundwater production during the 2019-23 five-year period for each user. Annual average groundwater production during this period for all Overlying producers combined was estimated at 1,860.70 ac-ft/yr; representing approximately 27.8 percent of the revised Safe Yield. Individually, none of the Overlying producers produced more than their allowable production rights during this five-year period; Sharondale Mesa Owner Association averaged the highest percentage of their respective allocation at 71.7 percent followed by California Oak Valley Golf and Resort LLC at 64.3 percent. Tukwet Canyon Golf Course and Plantation on the Lake followed at 57.8 percent and 55.1 percent respectively. All other Overliers were below 30 percent of their allocation.

3.4.1 Transfers between Appropriators

According to Section 7.2 of the Rules and Regulations, as replaced under Resolution 2019-02, an Appropriator may transfer all or a portion of its production right or water in storage that exceeds its supply needs to another Appropriator.

In January 2008, SMWC and BCVWD entered into a transfer agreement that allowed BCVWD the option to purchase all water that SMWC determines to be available for transfer from their storage account. As part of the agreement, each year SMWC estimates the amount of water available for transfer and offers it to BCVWD for purchase prior to offering it to other Appropriators. Since the beginning of the agreement, SMWC has transferred 9,500 ac-ft of water to BCVWD with 3,500 ac-ft transferred in CY 2011 alone. SMWC also transferred 1,500 ac-ft of water to the City of Banning in CY 2007. The purchase agreements and transfers between these agencies are on file with Watermaster. CY 2011 was the last year that SMWC transferred water to other Appropriators.

No water transfers between Appropriators were reported during CY 2023.

3.4.2 Transfers from SGPWA

In CY 2021, SGPWA transferred a total of 507.8 ac-ft from its storage account to Appropriators. Of this amount, 60 ac-ft were transferred to the City of Banning and the remaining 447.8 ac-ft to BCVWD. These transfers depleted SGPWA's storage account going into CY 2023; however, the agency added 893 ac-ft of imported water to its account and as of the end of CY 2023, SGPWA has 893.6 ac-ft of water in storage in the basin.

No water transfers from SGPWA to Appropriators were reported during CY 2023.

3.4.3 Transfers of Overlying Rights for Service by an Appropriator

The Stipulated Judgment, under Part III, Declaration of Adjustment of Rights, Section 3(B), provides that to the extent any Overlying Party requests, and uses its Exhibit "B", Column 4 water to obtain water service from an Appropriative Party, an equivalent volume of potable groundwater shall be earmarked by the Appropriative Party which will serve the Overlying Party, up to the volume of the Overlying Water Rights as reflected in Column 4 of Exhibit "B" for the purpose of serving the Overlying Party.

The Stipulated Judgment, under Part III, Section 3(C), states that in the event that an Overlying Party receives water service from an Appropriative Party, the Overlying Party shall forebear the use of that volume of the Overlying Water Right earmarked by the Appropriative Party. The Appropriator Party providing such service shall have the right to produce the volume of water foregone by the Overlying Party, in addition to other rights otherwise allocated to the Appropriator Party.

Under Resolution 17-02, adopted on August 30, 2017, Oak Valley Partners L.P. ("OVP") agreed to transfer its Overlying water rights to particular development parcels, intending to secure commitments from YVWD to provide water services to development phases of OVP's Summerwind Ranch Specific Plan (Project), located in the Beaumont Basin. The Stipulated

Judgment allocated OVP an Overlying production right of 1,806 ac-ft/yr based on the initial Safe Yield of 8,650 ac-ft/yr. OVP's rights have been adjusted to 1,398.87 ac-ft/yr based on the recalculated Safe Yield of 6,700 ac-ft/yr as approved by the Watermaster on April 1, 2015. Overlying rights and Overlying-Appropriative rights will be adjusted every 10 years based on the recalculation of the Safe Yield of the Beaumont Basin.

During CY 2018 and CY 2019, OVP transferred, through four separate assignments, a total of 183.05 ac-ft of their Overlying water rights to YVWD. Documentation of these transfers was provided by YVWD to the Watermaster Committee, as correspondence, in the March 28, 2018, August 1, 2018, October 3, 2018, and February 6, 2019 meetings.

Under Resolution 2019-02, adopted on June 25, 2019, the Beaumont Basin Watermaster rescinded Section 7 of the Beaumont Basin Watermaster Rules and Regulations in its entirety and replaced it as provided in Attachment A of the resolution. Under this resolution, the Beaumont Basin Watermaster also updated Form 5 entitled, "Notice to Adjust Rights of an Overlying Party due to Proposed Provision of Water Service by an Appropriator" and Form 7 entitled, "Notice to Transfers of Appropriator Production Right of Operating Yield Between Appropriators".

At the Dec 4, 2019 Watermaster Meeting, YVWD submitted a Form 5, signed Nov 19, 2019, documenting the transfer of OVP's all original 1,806 / revised 1,398.90 ac-ft ("Earmarked Water") of Overlying Water Rights to YVWD effective on October 9, 2018 (See Appendix E of the 2020 Annual Report). This issue was extensively discussed at that meeting and throughout the various meetings in 2020 between legal counsel and members of the Watermaster Committee without reaching an agreement. In mid-2021, YVWD filed with the Court two related motions. The first motion was to rescind Watermaster Rule 7.3 (formerly Rule 7.8); the second motion was to order the Watermaster to recognize Oak Valley Partners, LP's transfer of overlying water rights. On August 31, 2021, the Court denied these motions without prejudice. A copy of the Notice of Entry of Order Regarding YVWD's Motions, along with associated exhibits A and B was included under Appendix A of the 2021 Annual Report.

On May 24, 2023, YVWD notified the Watermaster that completed Form 5s for CY 2018 through CY 2022, documenting OVP's transfers will be included in the Correspondence section of the June 7, 2023 meeting packet to Receive and File. Through this submittal, YVWD wanted to transfer a cumulative 790.3 ac-ft of Overlying water rights from OVP for this five-year period. This item was brought up for discussion under TM 23-14 and as a result the Watermaster Committee voted to receive and file the Form 5s, as provided by YVWD, with further documented clarification of the rescission of the previous requests for water rights transfers, and further discussion, resolution, and adherence to the format of Resolution 2017-02.

On September 18, 2023, the YVWD submitted the information requested by the Watermaster Committee for consideration at the October 4, 2023 regular meeting. The information provided by YVWD was deemed to be complete and properly documented and as a result the Watermaster Committee approved to Receive and File the transfer of Overlying water rights

from OVP to YVWD for calendar years 2018 through 2022. The aggregated water rights transferred during this five-year period are as follows:

- ✓ 2018 – 0.11 ac-ft
- ✓ 2019 – 63.96 ac-ft
- ✓ 2020 – 194.82 ac-ft
- ✓ 2021 – 366.77 ac-ft
- ✓ 2022 – 478.25 ac-ft

Supporting documentation for this transfer is included under Appendix F as follows:

- ✓ Technical Memorandum 23-25 documenting the transfer
- ✓ General background information provided in the packet
- ✓ Original Form 5 submitted by YVWD and dated November 19, 2019
- ✓ Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2018, including:
 - A map of parcels served in 2018
 - Annual volumes of water delivered to each parcel served totaling 0.11 ac-ft
- ✓ Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2019, including:
 - A map of parcels served in 2019
 - Annual volumes of water delivered to each parcel served totaling 63.96 ac-ft
- ✓ Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2020, including:
 - A map of parcels served in 2020
 - Annual volumes of water delivered to each parcel served totaling 194.82 ac-ft
- ✓ Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2021, including:
 - A map of parcels served in 2021
 - Annual volumes of water delivered to each parcel served totaling 366.77 ac-ft
- ✓ Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2022, including:
 - A map of parcels served in 2022
 - Annual volumes of water delivered to each parcel served totaling 478.25 ac-ft

For CY 2023, the YVWD did not provide additional delivery information, as a result, the same quantity transferred in CY 2022 of 478.25 ac-ft is applied.

As a result of these transfers, OVP's Overlying rights have been reduced from 1,398.87 ac-ft to 920.62 ac-ft for CY 2022 and CY 2023. OVP's rights will vary from year to year depending on water service provided by YVWD and potential future adjustments to the Safe Yield of the basin. OVP's remaining rights will be considered as unpumped water and will be distributed to the Appropriators based on certain percentages as reflected in Column 3 of Exhibit "C" of the Judgment.

3.4.4 Allocation of Unused Overlying Water

Section 7.3 of the Rules and Regulations, as replaced under Resolution 2019-02, outlines the process for distributing the volume of adjudicated water not produced by the Overlying Parties to the Appropriators. Under this section, if an Overlying Party produces less than five times their share of the Safe Yield in any five-year period, the quantity of groundwater not produced by that Overlying Party shall be made available for allocation to the Appropriators.

Transferring unused production from Overlying Users does not diminish their legal right to produce in subsequent years.

Since the inception of the Judgment, transfers of unused production by Overlying Users have been made on a fiscal year basis coinciding with the preparation of the annual report. Preparing the annual report on a calendar year basis required that the transfers of unused production also be made on the same basis. Based on the five-year format used in the Rules and Regulations, transfers to the Appropriator Parties for CY 2023 were based on unused production from Overlying Users in CY 2018. This required the recalculation of Overlying Users production, back to July 2003, on a calendar year basis. Under this format, unused production from the second half of 2003, with adjusted water rights for half of the year, was allocated to Appropriators for CY 2008. Table 3-7 summarizes the volume of unused Overlying water for CY 2003 through CY 2023. While groundwater production by Overlying Users has decreased by over 55 percent since 2004, the volume of unused overlying water has correspondingly increased from 5,053 ac-ft/yr in CY 2006 to a maximum of 6,679 ac-ft during CY 2011. The amount of unused production decreased starting in CY 2014 as a result of reduced Overlying allocations resulting from the new basin Safe Yield of 6,700 ac-ft/yr.

Table 3-7 presents the allocation of unused Overlying water to each Appropriator based on their share of the Safe Yield and the schedule set forth under Section 7.3 of the Rules and Regulations, as replaced under Resolution 2019-02. It should be noted that this schedule has been modified to reflect a calendar year basis for allocation. Under the modified schedule, unused Overlying production in CY 2018, estimated at 4,480 ac-ft, is allocated to Appropriators during CY 2023. Unused Overlying production during CY 2023, adjusted by reductions on OVP's rights, is estimated at 4,704 ac-ft. This amount would be allocated to Appropriators during CY 2028.

3.5 Appropriators Production Right

The Appropriator's Production Right, as defined in Subparagraph I.3.B. of the Judgment, "consists of an Appropriator's share of Operating Yield, plus (1) any water acquired by an Appropriator from an Overlying Producer or other Appropriator pursuant to this Judgment, (2)

any water withdrawn from the Appropriator's storage account, (3) and New Yield created by the Appropriator."

The Operating Yield, as defined in subparagraph I.3.M of the Judgment, is "the maximum quantity of water which can be produced annually by the Appropriators from the Beaumont Basin, which quantity consists of Appropriative Water plus Temporary Surplus."

Water Acquired by Appropriators includes Transfer of Overlying Water Rights to Appropriators and transfers between Appropriators. At present, the YVWD is the only Appropriator that has received transfers of Overlying Water Rights. Transfers between Appropriators have taken place in the past between SMWC, as the Transferor, and the City of Banning and BCVWD, as the Transferees.

New Yield, as defined in subparagraph I.3.L, is "increases in yield in quantities greater than historical amounts from sources of supply including, but not limited to, capture of available storm flows, by means of projects constructed after February 20, 2003, as determined by the Watermaster. As of present, no project has been defined or approved by Watermaster that has resulted in New Yield. Although not defined in the Judgment, Rising Water has been categorized in this annual report as a potential source of New Yield in the future.

Water from storage is another component included in the calculation of Appropriators Production Right. It refers to the amount of water that an Appropriator deems necessary to be taken out of its storage account to meet annual supply requirements. Appropriators have been able to withdraw an equivalent amount of groundwater from their respective storage accounts to balance out their overproduction in any given year. However, the possibility exists in the future when an Appropriator may not have water in their respective storage account and/or may not be able to acquire sufficient imported water for groundwater recharge to make up their difference.

Table 3-8 presents the Appropriator's Production Right on an annual basis for each of the Appropriators for the 2003-23 period including the various categories of supply sources available to Appropriators to meet their annual water demands.

Figures 3-5 through 3-9 illustrate Supply Sources and Storage Accounts for the City of Banning, BCVWD, SMWC, YVWD and the Beaumont Basin as a whole respectively.

3.6 Storage Accounting

Section 6.7 of the Watermaster Rules and Regulations indicates that Watermaster shall calculate additions, extractions, and losses of all water stored and any losses of water supplies or Safe Yield resulting from such water stored. This section of the Rules and Regulations further indicates that Watermaster shall keep and maintain for public record an annual accounting thereof. While additions (spreading) and extractions (pumping) are easily quantifiable, losses from storage are more difficult to estimate. The completion of the "Beaumont Basin Storage Loss Analysis" in September 2018 estimates storage losses under various spreading scenarios; however, Watermaster has not developed a methodology to adjust storage accounts and their corresponding losses.

3.6.1 Annual Storage Consolidation

Consistent with the new reporting format to document extractions, spreading and other groundwater activities on a calendar year basis, Table 3-9 represents the consolidation of each Appropriator's storage account from CY 2003 through CY 2023. This table includes on an annual basis, Appropriators production rights, as defined in Section 3.5 and documented in Table 3-8, annual production, and any supplemental water that may have been acquired during the year. It also documents the amount of water that may have been taken from storage to meet annual water demands.

At the end of 2022, an overall total of 96,148.20 ac-ft of water were stored in the Basin for future use; this total increased in CY 2023 by 12,641.70 ac-ft to a cumulative total of 108,789.90 ac-ft. As a result of the significant amount of imported water from the SWP that was recharged in 2023, the amount of water in storage ranks amongst the highest since the 2003 adjudication. The amount of water in storage by party at the beginning and end of CY 2023 is presented below. Figure 3-10 compares the amount of water in storage to the storage limit for each party with storage accounts while Figure 3-11 presents storage totals by agency for the most recent 10-year period.

Agency / Party to the Judgment	Calendar Year 2023 (ac-ft)		
	Beginning	Ending	Change
City of Banning	46,569.9	47,650.9	1,081.0
BCVWD	23,193.1	32,884.1	9,691.0
City of Beaumont	0.0	0.0	0.0
South Mesa Water Company	10,224.2	10,506.0	281.8
Yucaipa Valley Water District	16,160.4	16,855.3	694.9
Morongo Band of Mission Indians	0.0	0.0	0.0
San Geronio Pass Water Agency	0.6	893.6	893.0
TOTAL in Storage	96,148.2	108,789.9	12,641.7

3.7 Groundwater Level Monitoring Program

A groundwater level monitoring program was initiated in 2015 to collect water levels throughout the basin using dedicated monitoring wells. Selected monitoring wells were equipped with a water level probe attached to a communications cable. The probe collects water level information on an hourly basis; collected data is downloaded from the probes every two months and a report is prepared for the Watermaster Committee at each regular meeting.

At the present time, there are 15 monitoring wells equipped with water level probes as depicted in Figure 3-12. In addition, there are two monitoring probes collecting barometric pressures at opposite ends of the Beaumont Basin. During regular visits to the monitoring

sites, the depth to water is measured using a water level meter according to the guidelines established in the recently adopted Rules and Regulations (Dec 2022).

Collected information is used to evaluate groundwater levels in the basin as documented in Section 3.8 of this report.

3.8 Changes in Groundwater Levels in the Beaumont Basin

3.8.1 Analysis of Groundwater Level Changes

Changes in groundwater flow and groundwater levels between 2022 and 2023 were evaluated based on measured data in dedicated monitoring wells and static measurements at active production wells located throughout the Beaumont Basin. Separate groundwater level contour maps were created for winter (December) 2022 and winter 2023 to evaluate changes in groundwater flow patterns and basin-wide changes in groundwater levels over the time period. The manually generated groundwater contour maps for 2022 and 2023 are shown on Figures 3-13 and 3-14, respectively.

Groundwater flow direction and gradient within the Beaumont Basin varies depending on location. In the west central portion of the basin (immediately west of the Beaumont Plains Fault Zone), groundwater generally flows to the north from the lowest reach of Noble Creek. Further to the west near Calimesa, the groundwater flow direction becomes westerly and then southwesterly toward San Timoteo Wash. In the eastern part of the basin, groundwater flows to the southeast towards the City of Banning. The groundwater flow directions did not change significantly between 2022 and 2023.

Basin-wide groundwater level trends in the Beaumont Basin were evaluated based on hydrographs from ten key wells and the groundwater level change map developed by subtracting the 2022 groundwater surface from the 2023 groundwater surface (see Figures 3-13 and 3-14). In the west central portion of the basin (BCVWD 29) groundwater levels are relatively stable. As judged by the highest peaks in the hydrograph, the overall groundwater level trend at this well was relatively stable between winter of 2022 and winter of 2023.

In the northwest portion of the basin (YVWD 34), groundwater levels have shown a downward trend since approximately 2020. In this area, groundwater levels showed declines of as much as two feet between December 2022 and December 2023 (see Figure 3-15). At Moreno Well No. 6, water levels have steadily dropped from 2003 to 2022 at which time they became stable. At Tukwet Canyon Golf Club B, groundwater levels were relatively stable between December 2022 and December 2023.

Groundwater levels in the central portion of the basin, in between the Beaumont Plains Faults, showed no change to slight declines in the range of 0 to -6 feet. Groundwater levels at Oak Valley No. 1 were relatively stable in 2023 (See Figure 3-15). In prior years, groundwater levels were highly variable in this well and likely influenced by groundwater pumping.

In the northern part of the basin, a groundwater mound developed at the BCVWD Noble Creek recharge site with as much as 53 feet of rise between December 2022 and December 2023 (see Figure 3-16). The rise in groundwater elevation is correlated with an increase in managed recharge at the facility in 2023 (11,172 acre-ft) relative to 2022 (1,812 acre-ft) and 2021 (2,504 acre-ft). An additional 9,220 acre-ft of water was delivered to the SGPWA spreading grounds south of Brookside Drive, which also contributed to the groundwater level rise in the area.

In the south-central portion of the basin, groundwater levels at BCVWD Well No. 2 showed some seasonal variability over the 2023 year but only changed approximately 3 feet between December 2022 and December 2023. At Banning Well C-4 (southeast Beaumont Basin), groundwater levels increased approximately 22 feet between December 2022 and December 2023. Groundwater levels in other southeast area wells also increased over the same period.

Groundwater levels in the northeast portion of the basin (near USGS Highland Springs Monitoring Well) dropped by approximately four feet between December 2022 and December 2023.

3.8.2 Analysis of Change in Groundwater Storage

Basin-wide change in groundwater storage between December 2022 and December 2023 was analyzed as a function of the difference in groundwater levels across the basin and the specific yield of the aquifer sediments. Specific yield values were obtained from the calibrated groundwater flow model of the Beaumont Basin (TH&Co, 2015). Groundwater level change across the basin was analyzed using the following procedure:

- ✓ The winter 2022 and 2023 hand-generated groundwater contour maps were each converted into three-dimensional raster surfaces.
- ✓ The basin was discretized into 100-ft by 100-ft grid cells.
- ✓ Attributes were assigned to each saturated grid cell including groundwater level change and specific yield.
- ✓ The resulting attribute table was processed in a Geographic Information System (GIS) for calculating the change in storage.

Results of the analysis show an overall increase in groundwater storage within the adjudicated basin of approximately 11,500 ac-ft during this one-year period. This increase is associated with above-normal precipitation during the time period and an increase imported deliveries to the Noble Creek Recharge Facilities, relative to previous years.

3.9 Operating Safe Yield

For purposes of this annual report, the annual operating Safe Yield (OSY) describes the net infiltration to the adjudicated groundwater basin (not including artificial recharge) for any given year. It is noted that the OSY is different than the Operating Yield, which is a function of the unused overlier production (Appropriative Water) and Temporary Surplus, as described in the Beaumont Basin Judgment (San Timoteo Management Authority v. Banning et al., 2004).

Operating Safe Yield is estimated based on the following equation:

$$OSY = \frac{\Sigma P + \Delta S - \Sigma AR}{\Delta T}$$

where:	ΣP	=	The sum of groundwater production (ac-ft)
	ΔS	=	The change in groundwater storage (ac-ft)
	ΣAR	=	The sum of groundwater recharge (ac-ft)
	ΔT	=	The time over which the OSY is estimated (years)

Total Beaumont Basin groundwater production in calendar year 2023 was 14,227 ac-ft (see Table 3-3). Total artificial recharge in calendar year 2023 was 20,392 ac-ft (see Table 3-4). It is noted that only the Noble Creek Recharge Facility recharge was used in the analysis of OSY (recharge at the Little San Geronio Creek facility, if any, is not included because it is outside the adjudicated area). The change in groundwater storage estimate is based on the analysis of groundwater levels described earlier. The period of time over which the OSY is evaluated is one year. The resulting OSY is estimated as:

$$OSY = \frac{14,227 + 11,462 - 20,392}{1} = 5,297 \text{ ac-ft}$$

It is emphasized that the OSY, as presented herein, is based on one year of groundwater production and recharge data. When evaluated on a long-term basis, this methodology can be used to estimate the long-term Safe Yield of the basin, as defined in the Beaumont Basin Judgment. As required by the Judgment, the Safe Yield of the basin was reevaluated in 2013. The Safe Yield is currently being reevaluated.

The OSY for 2023 is likely underestimated. Groundwater level data were not available to estimate the year over year change in groundwater levels at the SGPWA recharge basins where more than 9,000 acre-ft of water was recharged. If these data were available, it is assumed that the change in storage value for the basin, and the OSY estimate, would have been higher.

3-10 Certification of Groundwater Production and Imported Water Use during Water Year 2023

The State of California Department of Water Resources requires the documentation of the use of water in all groundwater basins on a Water Year basis. Water Year 2023 begins on October 1st, 2022 and ends on September 30th, 2023. Groundwater production for the first three months of Water Year 2023 (October through December 2022) is documented in Table 3-1 D, Appropriator Producer – Summary of Production for Calendar Year 2022, for Appropriators and Table 3-2 D, Overlying Producer – Summary of Production for Calendar Year 2022, for Overlying users. Total production for the first three months of Water Year 2023 was as follows:

- ✓ Appropriators: 3,733.40 ac-ft
- ✓ Overlyiers: 346.60 ac-ft

Similarly, Appropriator production during the last nine months of Water Year 2023 (January through September 2023) is documented in Table 3-1 E, Appropriator Producer – Summary of Production for Calendar Year 2023, for Appropriators and Table 3-2-E, Overlying Producer – Summary of Production for Calendar Year 2023, for Overlying users. Total production for this nine-month period was as follows:

- ✓ Appropriators: 9,852.20 ac-ft
- ✓ Overlyiers: 1,100.70 ac-ft

Total groundwater production for Water Year 2023 from the Beaumont Basin was 15,033 ac-ft.

The use of imported water is documented on an annual basis in Table 3-4, Annual Supplemental Recharge to the Beaumont Basin – Calendar Years 2003-2023. Imported water deliveries during Water Year 2023 amounted to 15,905 ac-ft. Monthly deliveries to individual agencies for this water year are presented in Table 3-10.

Change in Storage during Water Year 2023 was estimated at 3,643 ac-ft. Figure 3-17 displays the change in elevation between October 2022 and October 2023.

3.11 Recommendations

The Rules and Regulations, initially adopted in June 2004, were developed with the understanding that they should be revisited and/or revised from time to time to make sure they were consistent with the provisions of the Judgment. Revisions to the Rules and Regulations have been made over the years with the latest revisions adopted in December 2022 as documented earlier in Section 2.4. The latest revisions to the Rules and Regulations, as documented in Resolution 2022-09 will significantly increase the consistency in documenting Overlying water transfers for service by Appropriators and for reporting groundwater levels recording procedures.

In September 2018, a study to estimate groundwater losses from the basin was completed for Watermaster. In this study groundwater losses from the basin resulting from spreading of imported or outside water at selected locations in the basin was estimated. The study has been accepted by the Watermaster Committee; however, a methodology to address this issue is yet to be developed.

Watermaster may conduct additional studies in the future in support of:

- ✓ Developing a methodology to account for new yield from capturing local stormwater in the basin, and
- ✓ Developing a methodology to account for recycled water recharge in the basin.

In preparing this annual report and through the review of previous annual reports, we have identified a number of issues/activities that should be considered by the Watermaster to

ensure accurate accounting of production, transfers, recharge, and storage. It should be noted that many of the recommendations provided in this section have been previously documented in prior annual reports. Our recommendations are as follows:

- ✓ Develop a protocol to increase the accuracy and consistency of data reported to the Watermaster. This has been partially addressed by the changes to the Rules and Regulations, as documented in Resolution 2022-09. Watermaster should identify a person and/or entity to be the central repository for data collection, transfer, and exchange. This person/entity shall be responsible for the collection and distribution of all groundwater production, water level, groundwater recharge, and water quality information. Quality control of the data in its various forms including checks for errors, omissions, and inconsistencies between the reporting agencies and/or parties should be part of this process.

As indicated earlier, Watermaster should revisit the Rules and Regulations to ensure that its activities are consistent with the requirements of the Judgment. The following inconsistencies between guidelines provided in this document and current Watermaster activities were identified:

- ✓ Watermaster has not conducted a meter maintenance program, as required under Section 3.1 of the Rules and Regulations, to make sure groundwater production is reported accurately. Individual parties may or may not maintain and calibrate their production meters at acceptable intervals.
- ✓ Under Section 3.2 of the Rules and Regulations, producers producing in an excess of 10 ac-ft/yr should report on a monthly basis by the 15th day of the ensuing month while those producing less should file on an annual basis by the 15th of July. This provision should be revised as it was written for fiscal year accounting. Overlying Parties producing less than 10 ac-ft/yr should report by the 15th of January now that calendar year accounting is used. Proper supporting information should be provided.
- ✓ Under Section 2.2.1 (A) of the Rules and Regulations, the Watermaster shall levy and collect assessments in each year, in amounts sufficient to purchase replenishment water to replace Overproduction by any party from the previous fiscal year. Assessment shall be collected not later than October 1 of each year. This provision should be changed to reflect Calendar Year basis.

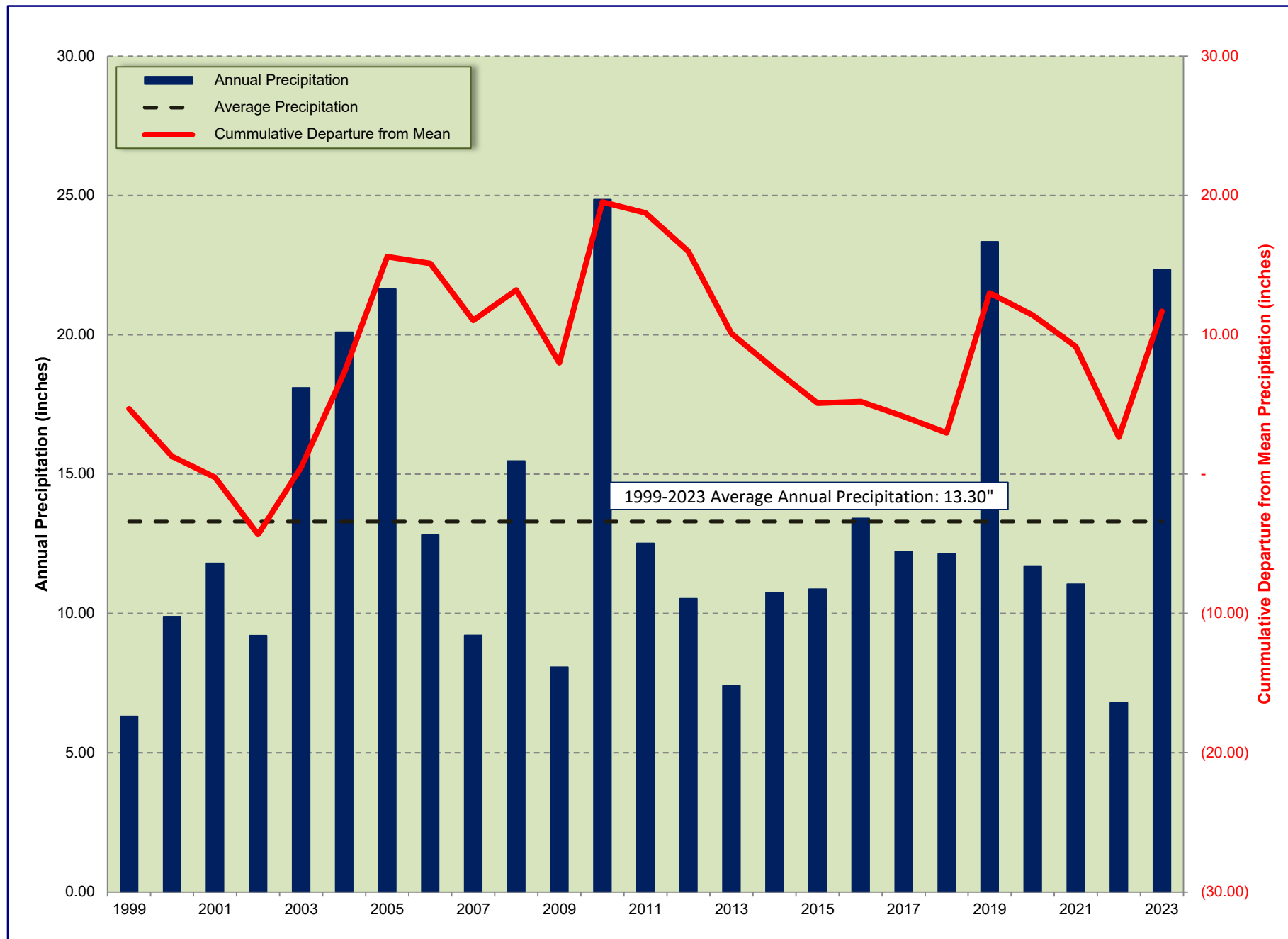
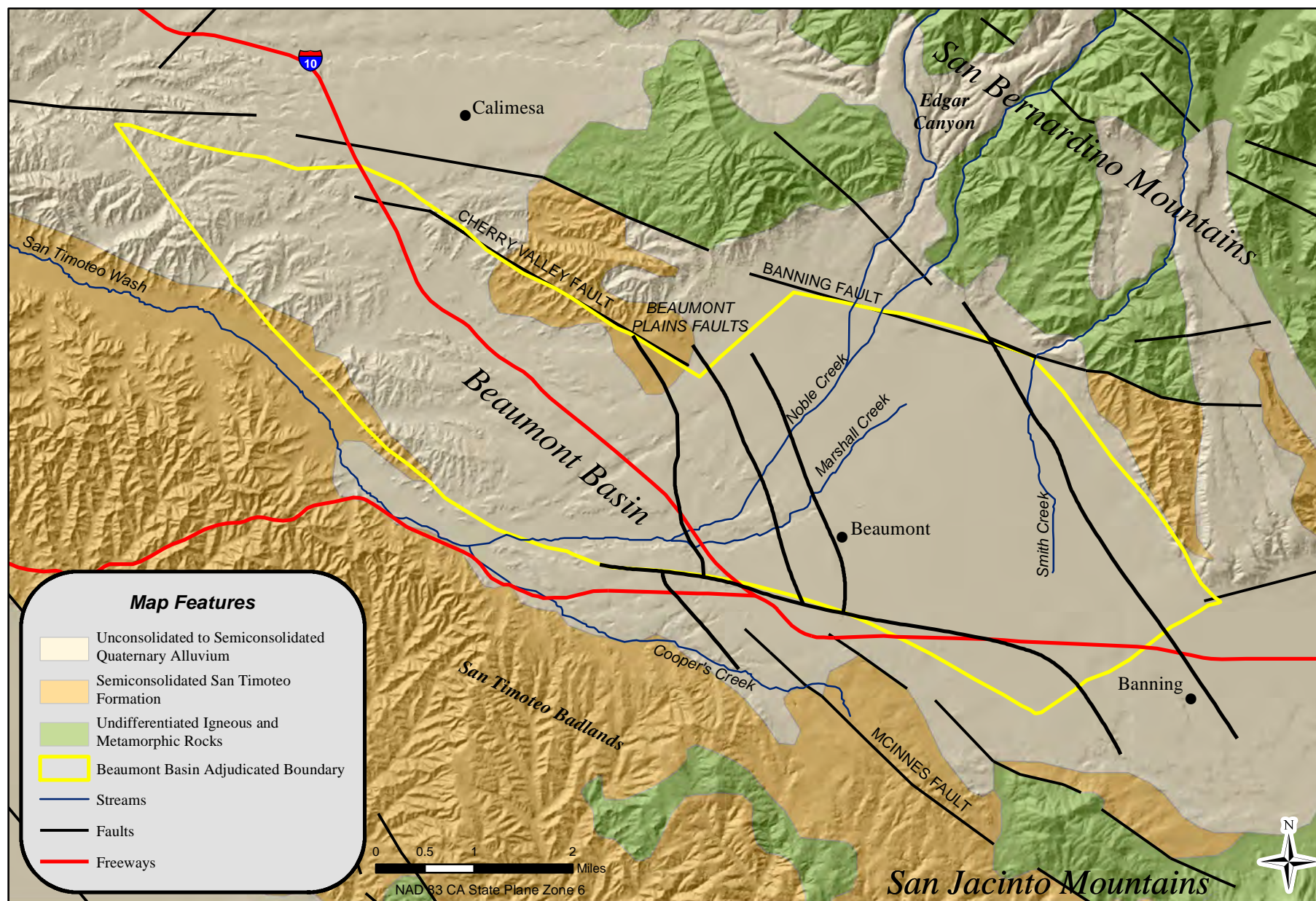


Figure 3-1
Annual Precipitation with Cumulative Departure from the Mean (1999-2023)



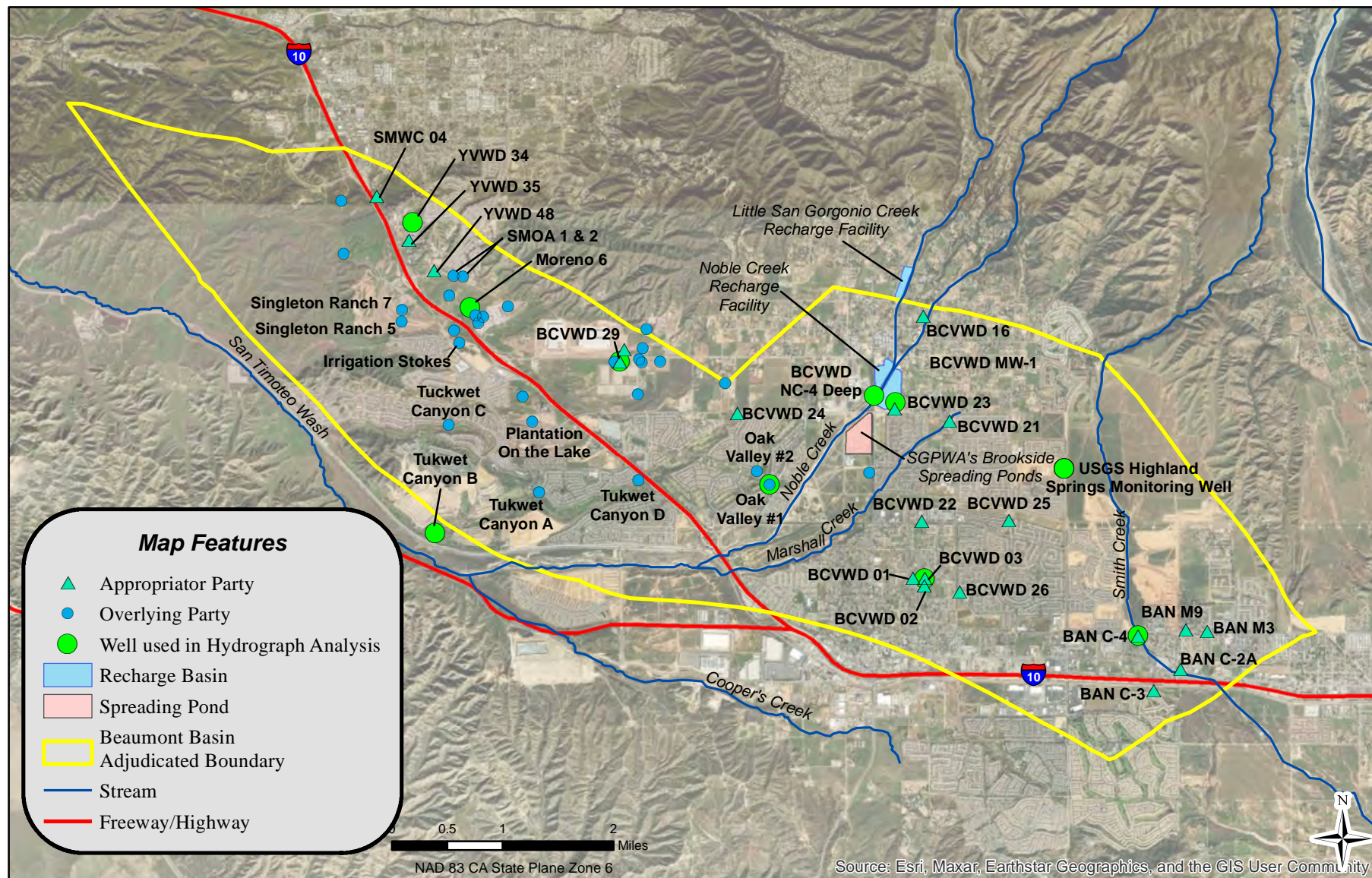
Alda, Inc. in association with

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Groundwater Consulting

March 2024

Geology of the Beaumont Basin

Figure 3-2



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March 2024

**Well Locations in the
Beaumont Basin**
Figure 3-3

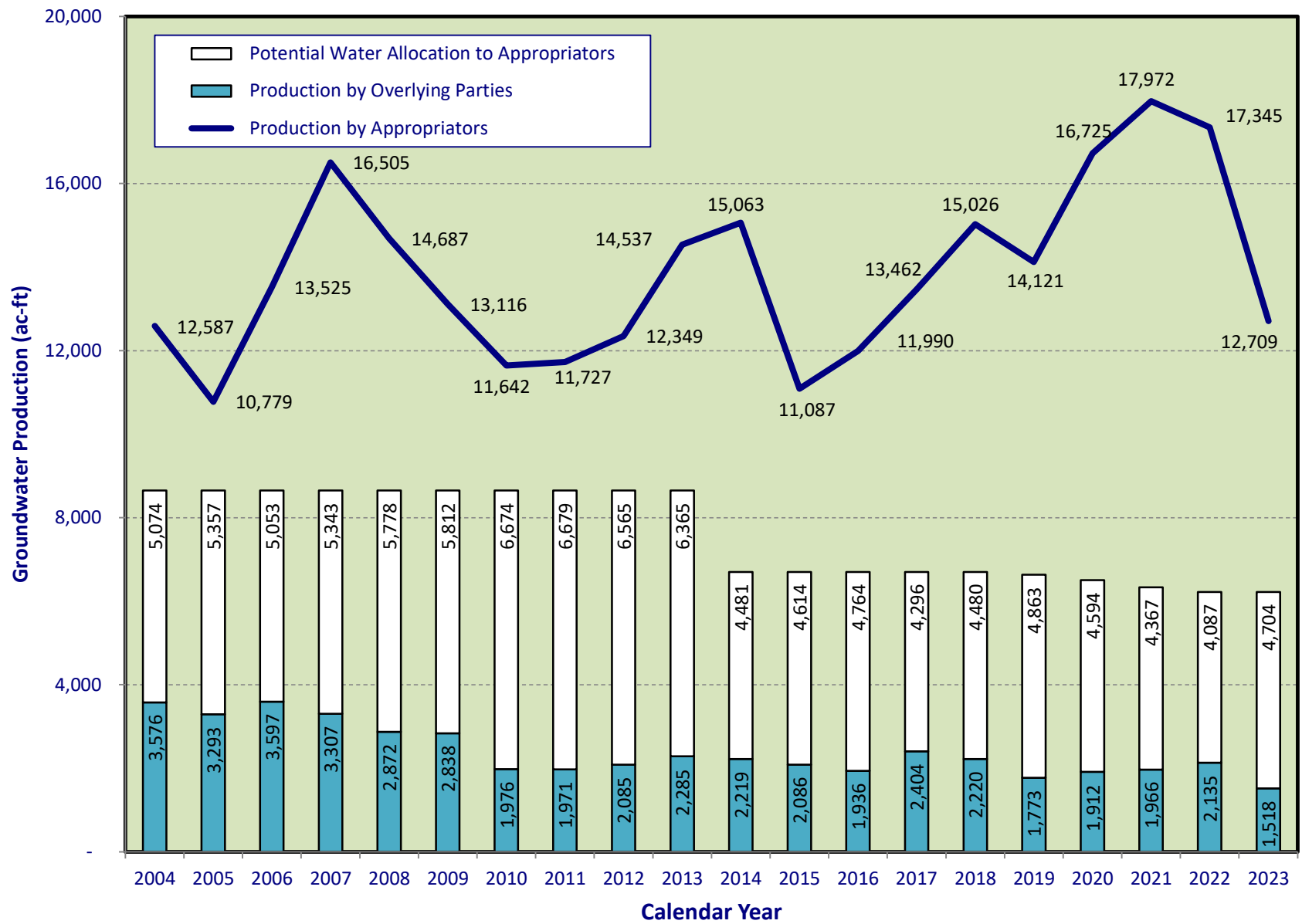


Figure 3-4
Annual Production by Appropriators and Overlying Users (2004-23)

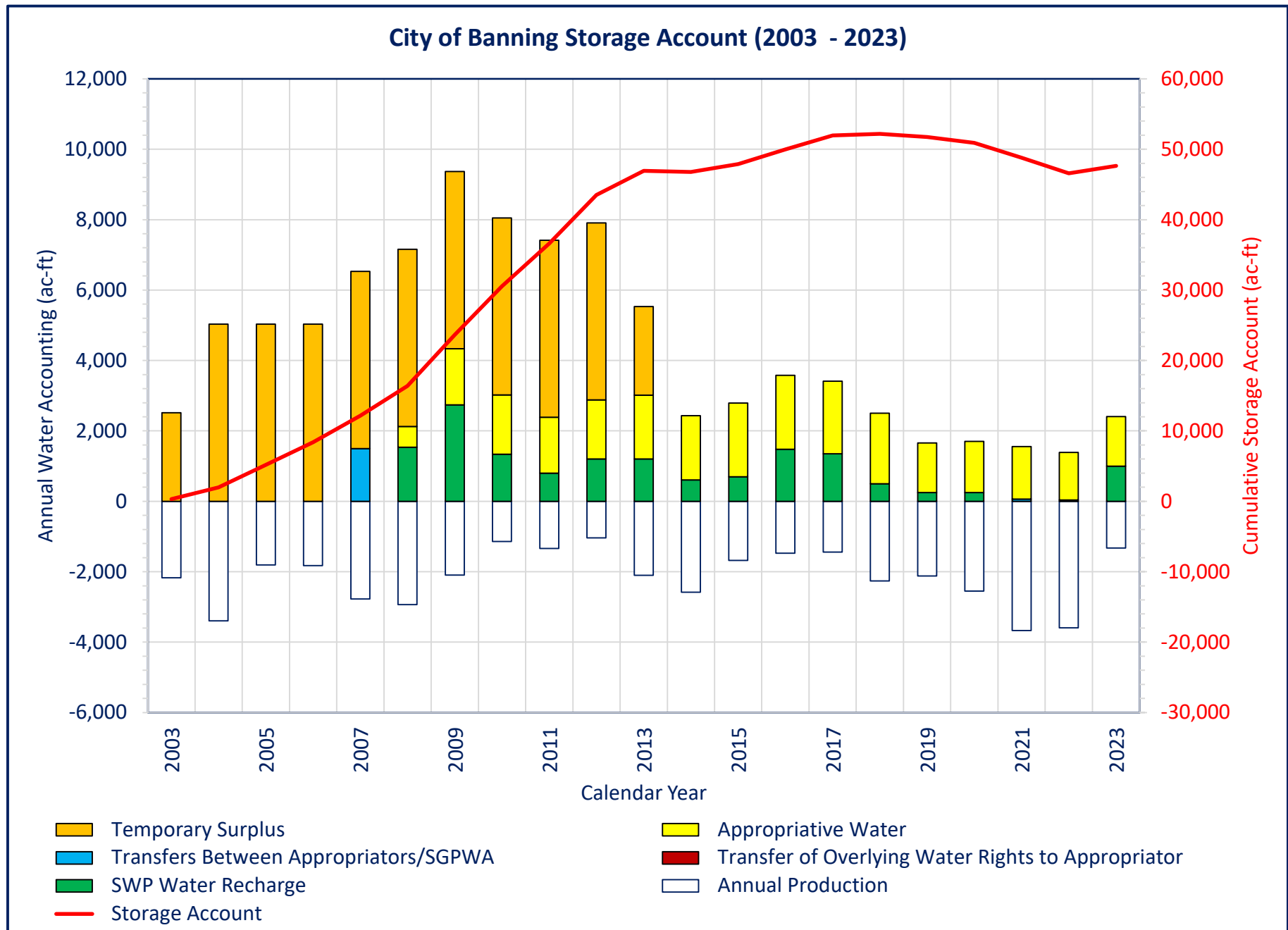


Figure 3-5
City of Banning - Supply Sources and Storage Account (2003-23)

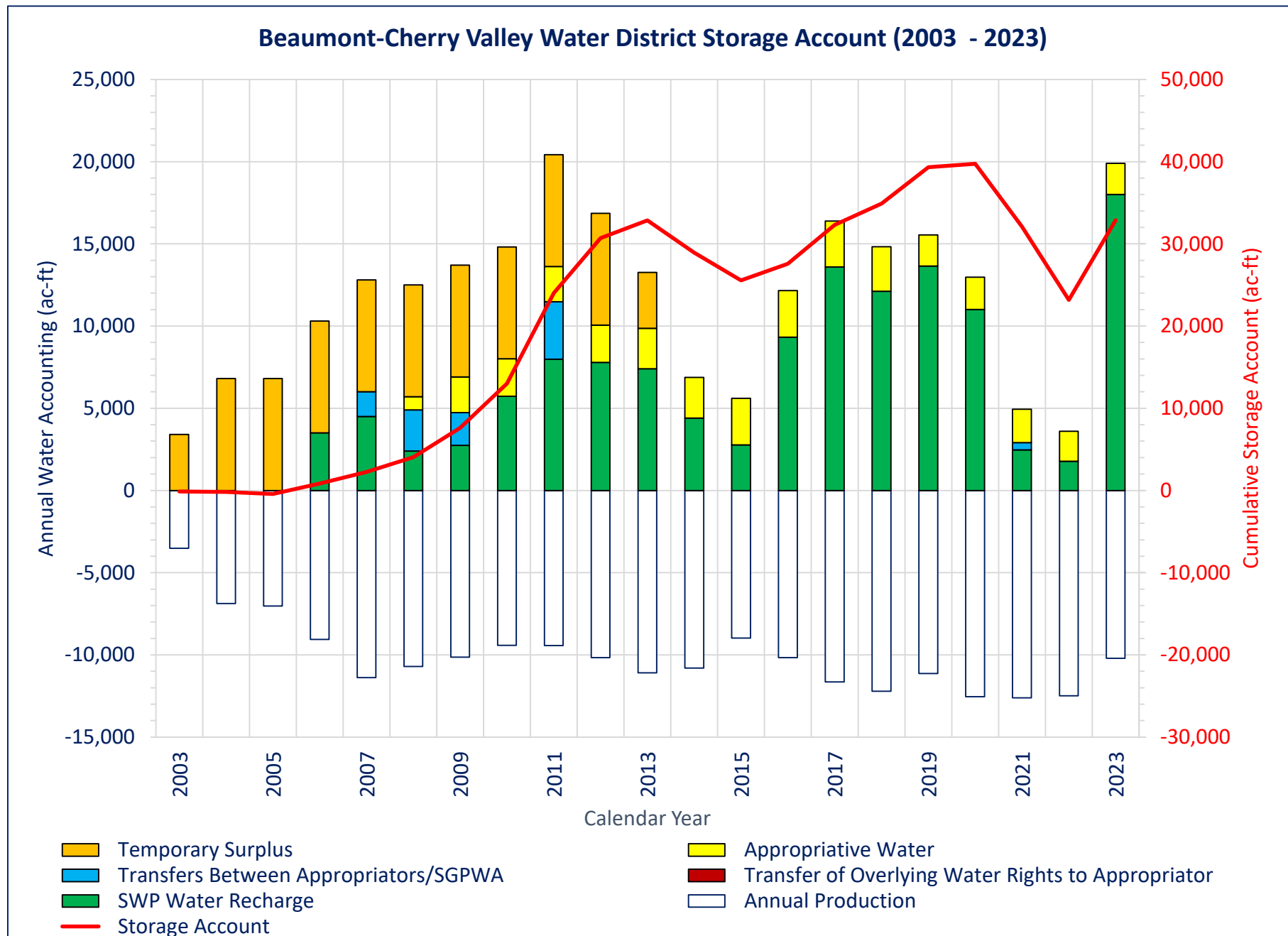


Figure 3-6
BCVWD - Supply Sources and Storage Account (2003-23)

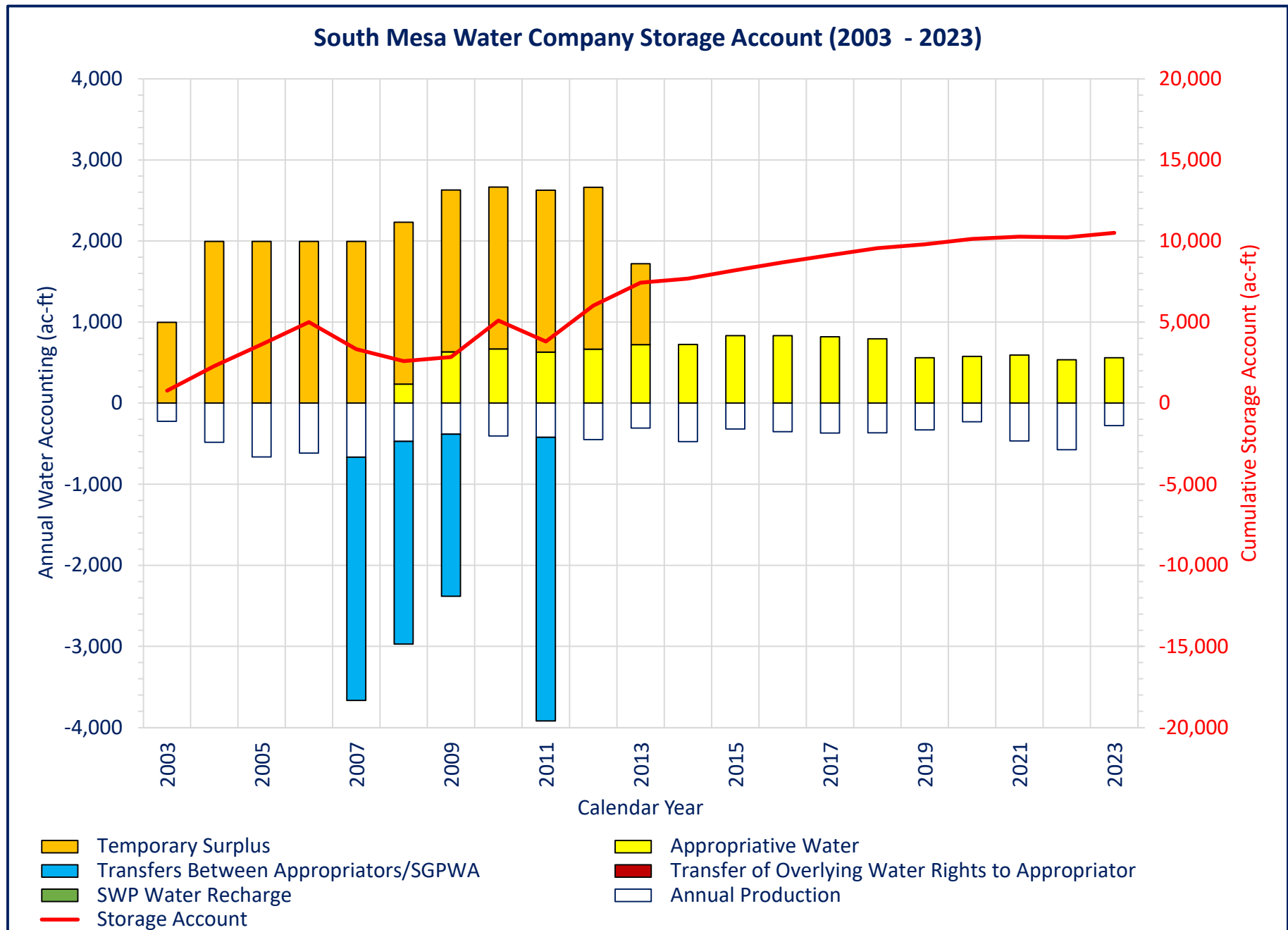


Figure 3-7
SMWC - Supply Sources and Storage Account (2003-23)

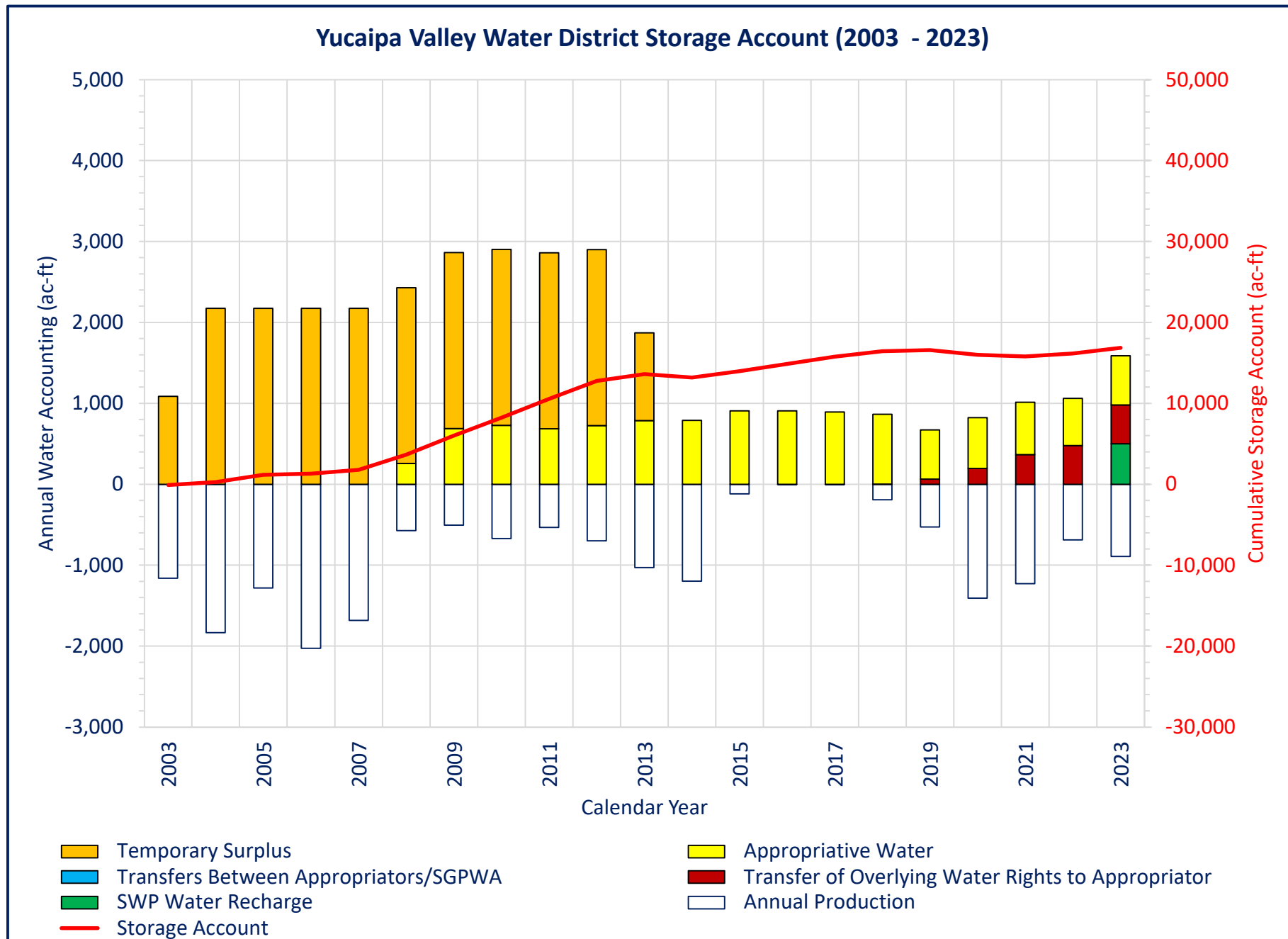


Figure 3-8
YVWD - Supply Sources and Storage Account (2003-23)

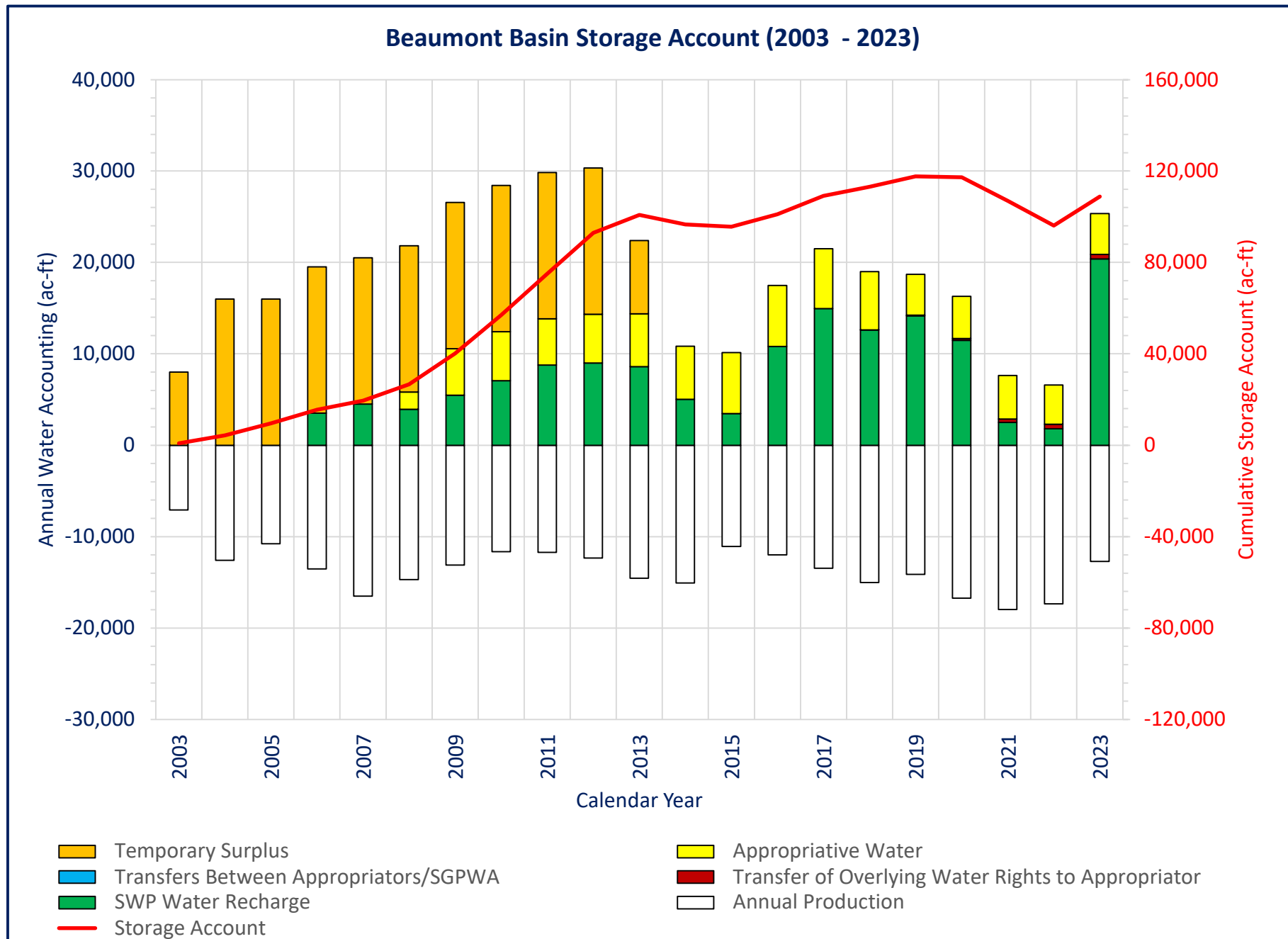


Figure 3-9
Beaumont Basin - Supply Sources and Storage Account (2003-23)

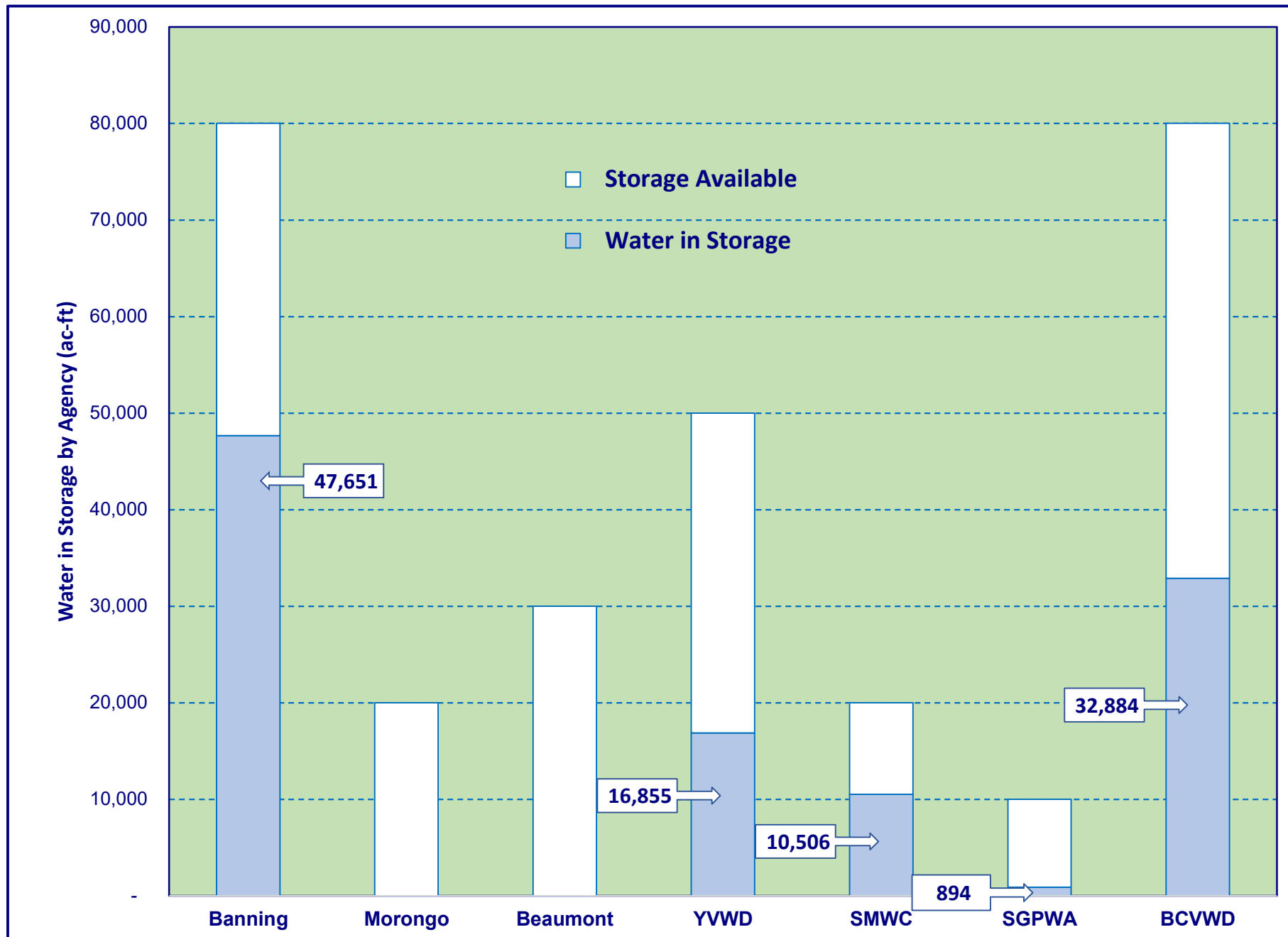


Figure 3-10
Groundwater Storage by Agency/User as of 2023

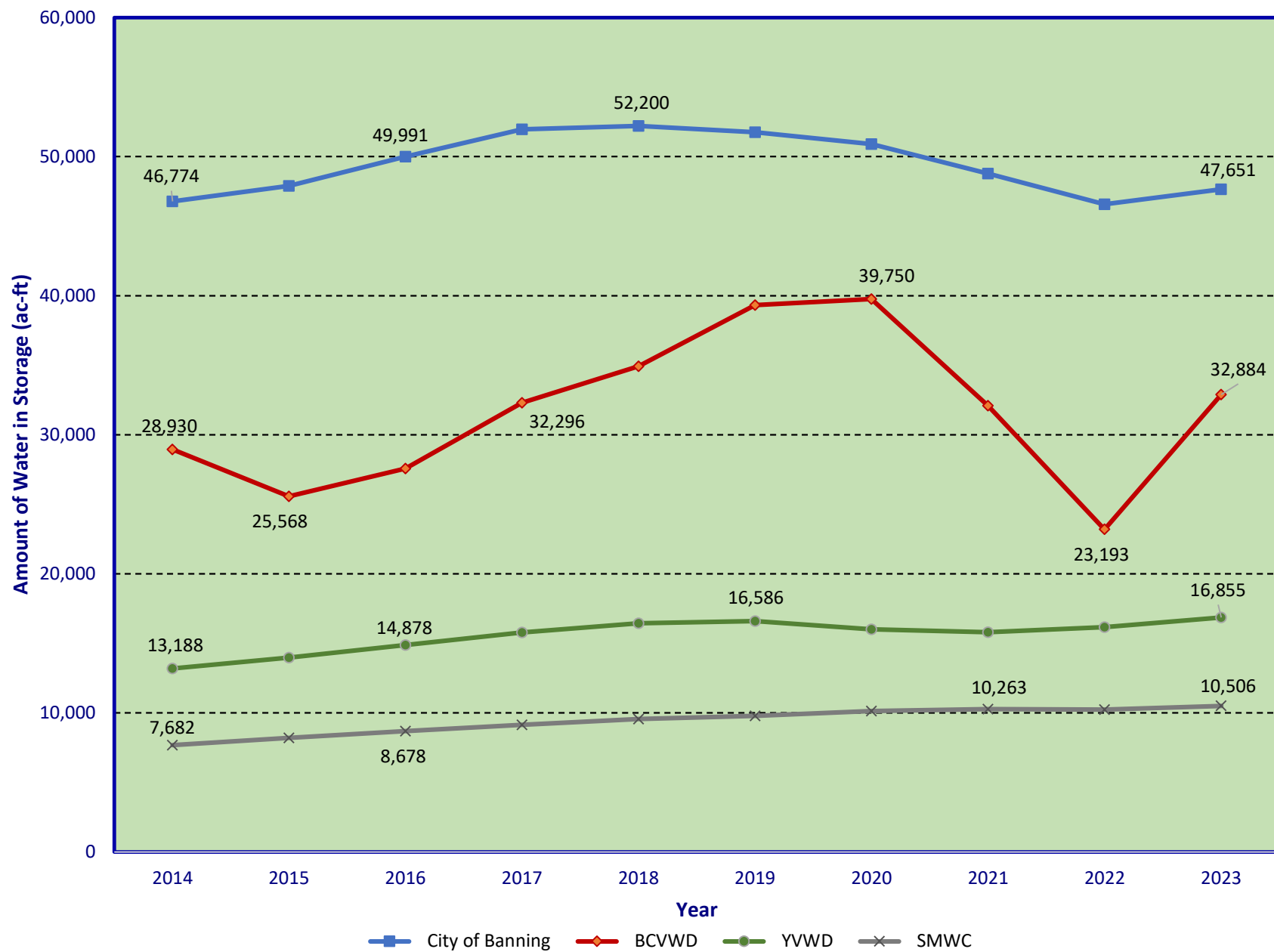
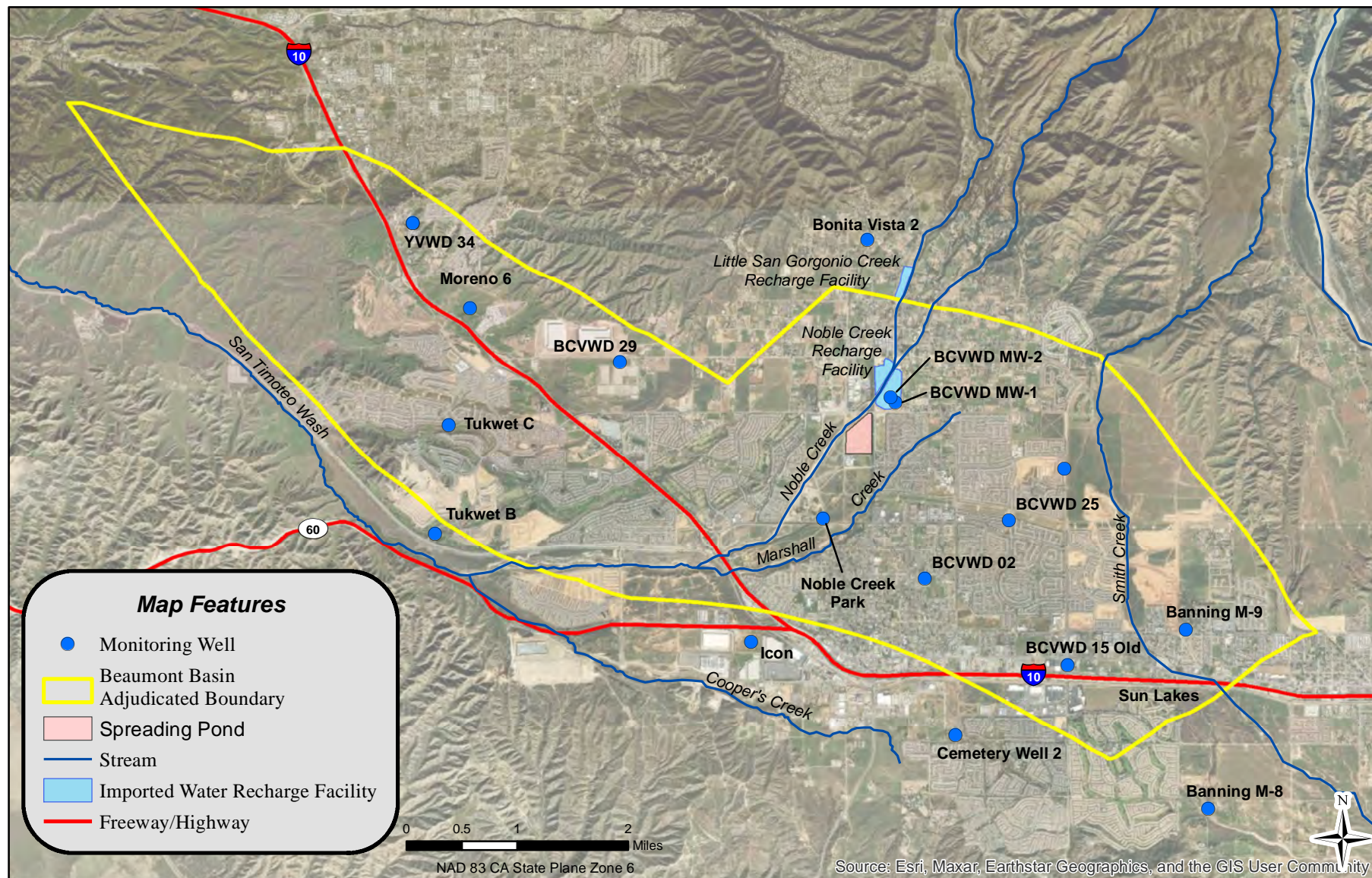


Figure 3-11
Accumulation of Storage by Appropriator for the 2014-2023 10-Yr Period

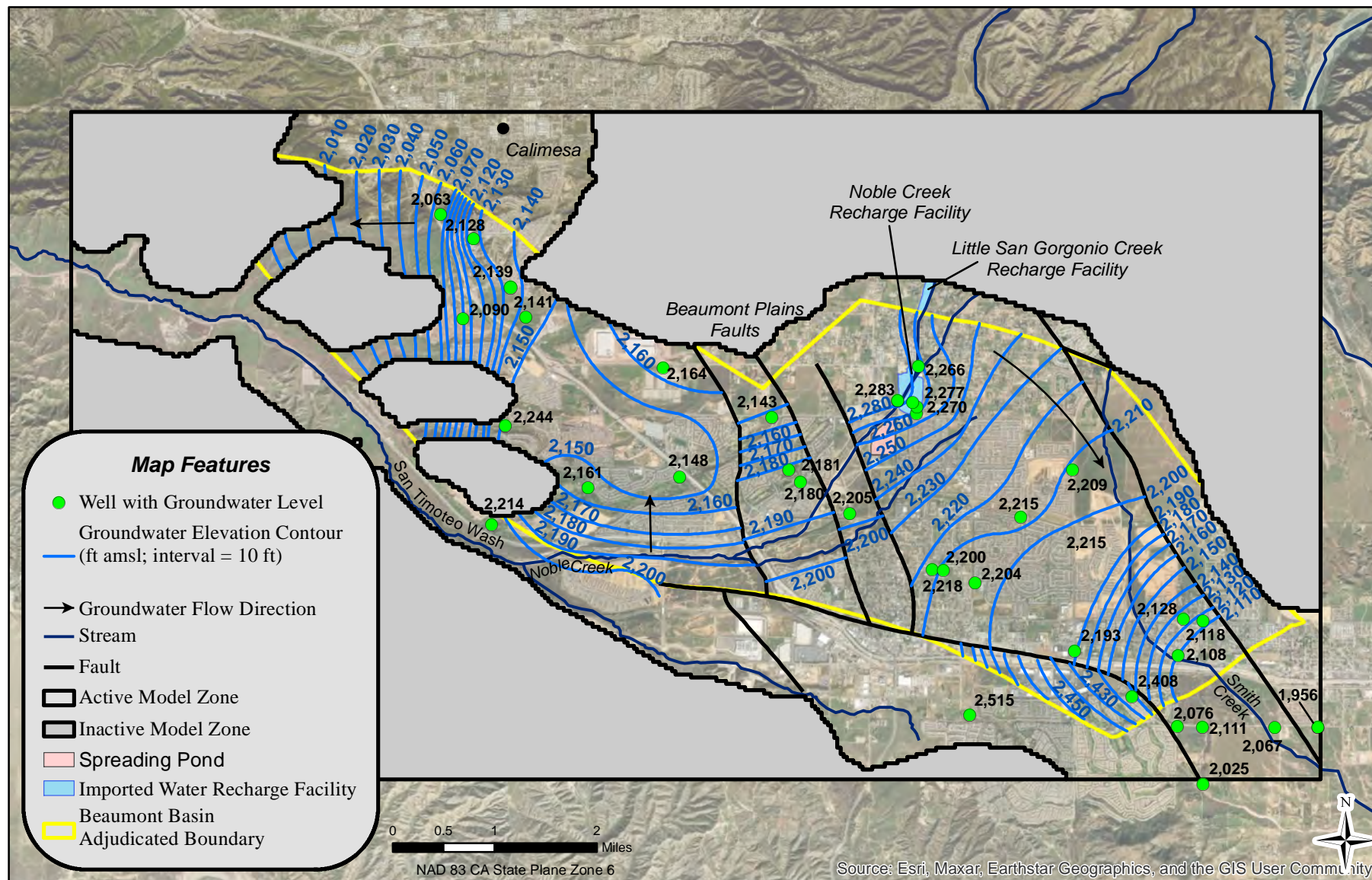


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**Monitoring Wells in the
Beaumont Basin**
Figure 3-12



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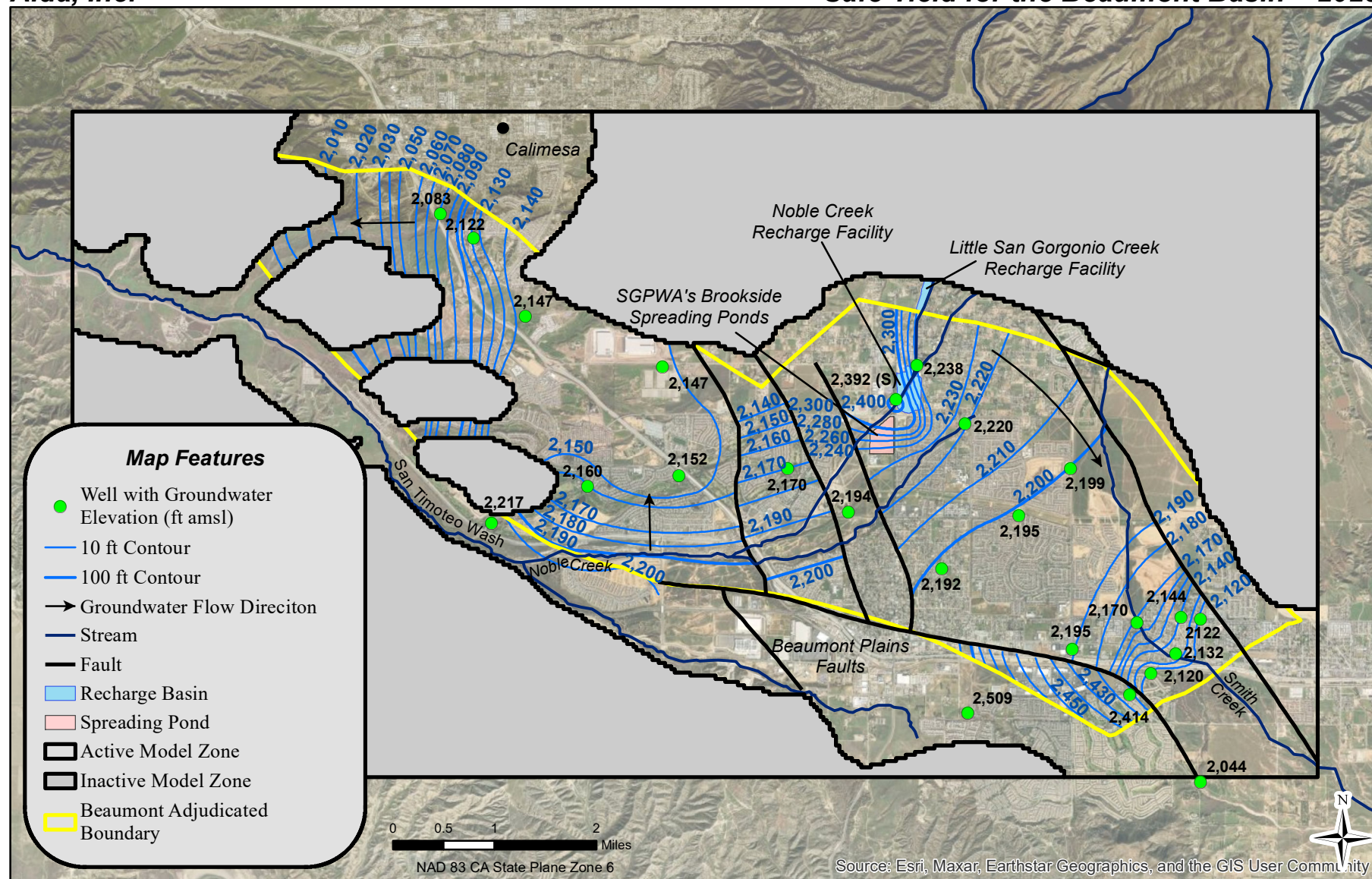
Thomas Harder & Co.
Groundwater Consulting

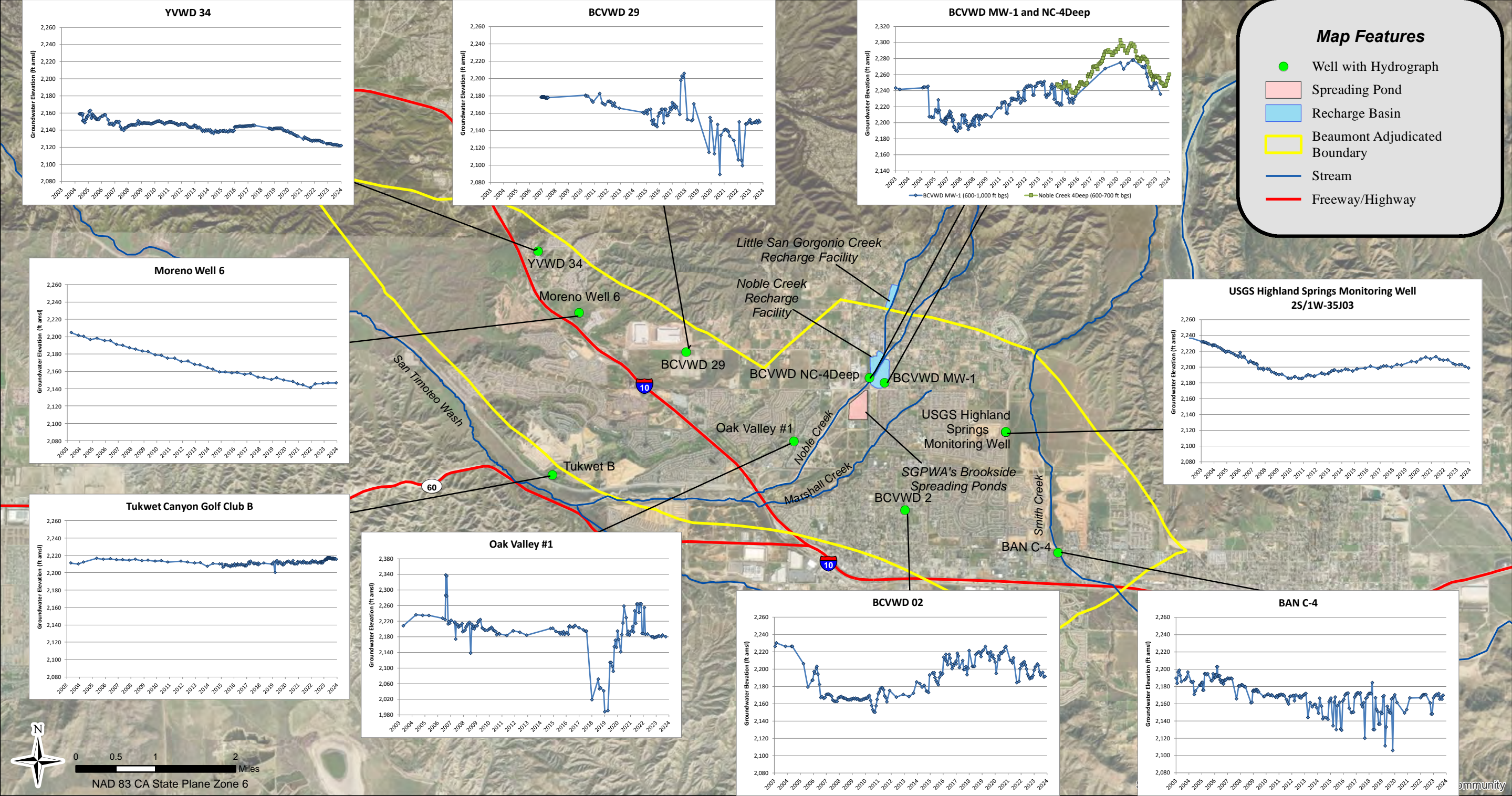
March 2024

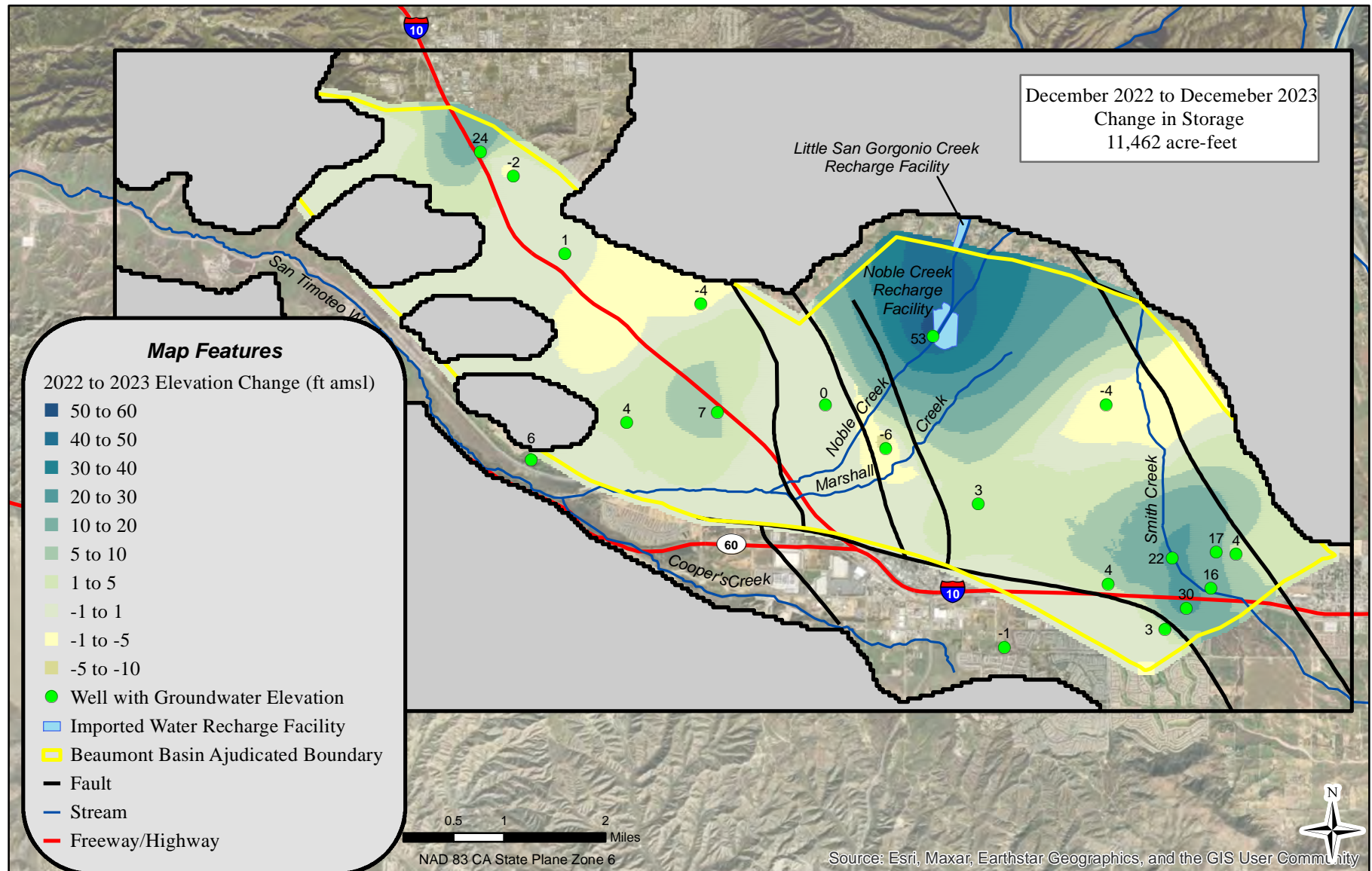
**Groundwater Contours
in the Beaumont Basin - Winter 2022**
Figure 3-13

Alda, Inc.

Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin – 2023







Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin – 2023

Beaumont Basin Watermaster

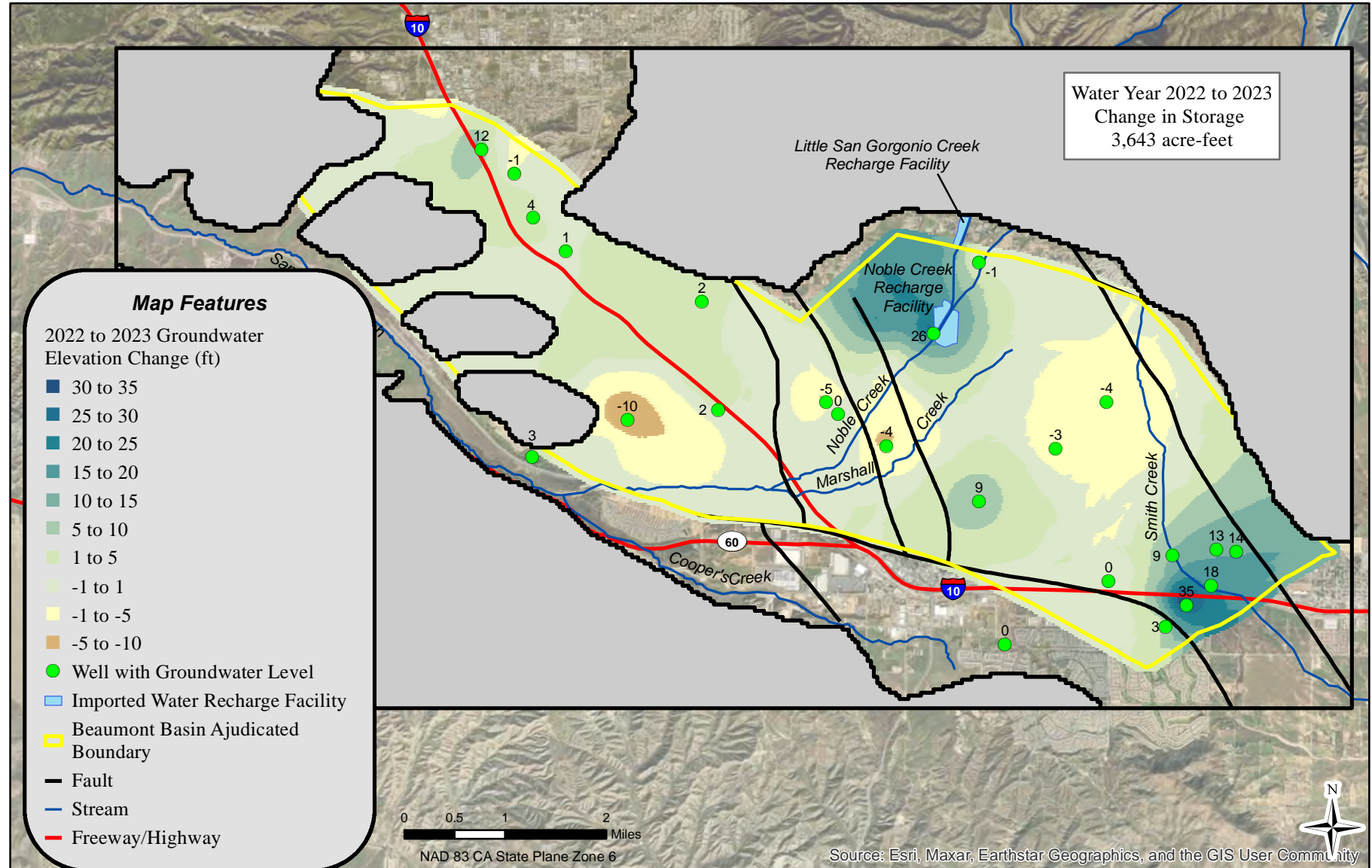


Table 3-1A
Appropriator Producer - Summary of Production for Calendar Year 2019 (ac-ft)

Owner & Well Name	Water Production by Appropriator (ac-ft) ⁽¹⁾												Total Production
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Banning, City of													
Well C2-A	6.0	25.4	17.5	0.6	3.7	11.2	25.7	39.0	44.8	26.3	0.9	1.4	202.4
Well C3	0.8	0.4	0.2	1.3	0.0	38.3	78.8	53.2	0.0	0.0	0.0	0.0	172.8
Well C4	105.4	7.4	15.8	146.7	144.5	110.0	100.0	109.9	118.0	61.6	80.7	6.4	1,006.4
Well M3	4.9	50.2	51.1	32.0	4.4	56.2	84.0	82.8	79.7	81.8	77.0	74.8	679.0
Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From BCVWD ⁽²⁾	16.9	1.0	4.8	10.0	5.4	6.5	6.0	3.6	0.5	3.6	0.7	1.6	60.7
Subtotal	133.9	84.3	89.3	190.6	157.9	222.2	294.5	288.5	243.0	173.3	159.3	84.2	2,121.3
Beaumont Cherry Valley Water District													
Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Well 16	0.1	0.0	0.4	1.2	0.0	3.1	0.0	8.3	9.2	20.8	6.2	1.9	51.1
Well 21	186.1	168.1	71.1	240.8	206.3	237.4	256.9	242.5	227.1	256.6	237.3	158.7	2,488.8
Well 22	0.0	0.0	0.0	7.5	6.1	123.1	116.2	106.4	91.5	90.7	65.1	5.0	611.7
Well 23	82.1	106.1	42.6	85.9	27.3	113.3	240.6	280.6	229.9	189.5	176.2	172.3	1,746.4
Well 24	89.9	21.6	133.9	211.0	108.1	179.7	201.9	249.7	206.6	195.4	186.7	86.6	1,871.1
Well 25	196.2	95.2	201.4	216.7	249.4	244.6	307.7	298.4	280.5	277.1	171.9	59.1	2,598.4
Well 26	15.7	0.0	26.2	130.2	57.6	130.1	125.9	155.4	151.2	139.3	113.9	17.3	1,062.7
Well 29	6.3	5.4	1.6	0.0	4.4	49.7	194.9	224.4	167.0	76.5	30.1	10.4	770.8
Egg Ranch Well	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
To Banning ⁽²⁾	-16.9	-1.0	-4.8	-10.0	-5.4	-6.5	-6.0	-3.6	-0.5	-3.6	-0.7	-1.6	-60.7
Subtotal	560.2	395.5	472.5	883.2	653.9	1,074.5	1,438.0	1,562.1	1,362.5	1,242.4	986.5	509.7	11,140.9
South Mesa Water Company													
Well 4	12.8	11.8	14.2	25.5	22.5	38.9	53.6	54.4	39.8	22.9	20.7	13.5	330.7
Subtotal	12.8	11.8	14.2	25.5	22.5	38.9	53.6	54.4	39.8	22.9	20.7	13.5	330.7
Yucaipa Valley Water District													
Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.0	110.4	83.6	76.7	110.0	528.6
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.0	110.4	83.6	76.7	110.0	528.6
Total	706.9	491.6	576.1	1,099.3	834.3	1,335.5	1,786.1	2,053.0	1,755.8	1,522.2	1,243.2	717.4	14,121.5

(1) - All values rounded and subject to revision based on receipt of more accurate information

(2) - Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.

Table 3-1B
Appropriator Producer - Summary of Production for Calendar Year 2020 (ac-ft)

Owner & Well Name	Water Production by Appropriator (ac-ft) ⁽¹⁾												Total Production
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Banning, City of													
Well C2-A	4.0	20.3	2.7	0.5	7.8	16.8	27.6	23.5	17.8	13.4	19.5	4.8	158.8
Well C3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well C4	25.1	90.6	101.3	106.1	115.8	133.3	146.6	149.0	142.6	135.1	125.6	137.4	1,408.7
Well M3	80.9	0.1	0.3	0.3	72.1	77.9	85.1	82.8	82.8	52.1	40.2	42.3	616.8
Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From BCVWD ⁽²⁾	1.9	6.4	2.5	0.6	0.0	0.0	0.0	84.5	98.3	110.8	43.2	16.1	364.4
Subtotal	111.9	117.5	106.9	107.6	195.7	228.0	259.4	339.7	341.5	311.4	228.5	200.6	2,548.6
Beaumont Cherry Valley Water District													
Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 3	0.0	3.0	26.3	47.7	50.7	113.0	126.8	165.9	163.7	61.1	59.8	34.7	852.6
Well 16	0.0	9.1	19.0	4.0	18.2	52.6	21.2	56.4	8.9	9.3	0.5	2.0	201.1
Well 21	157.8	129.3	19.4	0.0	0.0	0.0	69.9	221.0	199.9	218.0	125.2	113.2	1,253.7
Well 22	0.5	5.6	17.0	35.6	134.4	160.7	106.7	71.2	172.7	149.7	86.7	75.8	1,016.5
Well 23	256.7	145.4	64.9	163.0	209.7	271.2	273.1	276.1	269.4	236.8	178.5	159.2	2,504.0
Well 24	164.9	144.1	120.2	155.8	186.9	153.0	225.1	130.2	1.9	57.1	0.0	2.1	1,341.3
Well 25	55.9	74.2	33.5	29.8	144.8	151.6	182.1	151.6	145.7	160.0	122.5	125.0	1,376.7
Well 26	0.0	139.6	191.8	123.7	251.1	178.6	280.3	300.0	307.6	297.6	226.1	210.7	2,507.1
Well 29	5.9	59.6	44.4	0.0	185.2	209.0	224.8	286.9	291.9	212.7	166.9	163.4	1,850.7
Egg Ranch Well	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
To Banning ⁽²⁾	-1.9	-6.4	-2.5	-0.6	0.0	0.0	0.0	-84.5	-98.3	-110.8	-43.2	-16.1	-364.4
Subtotal	639.8	703.4	533.9	558.9	1,181.0	1,289.7	1,509.9	1,574.8	1,463.4	1,291.5	923.0	870.0	12,539.2
South Mesa Water Company													
Well 4	17.1	14.9	13.0	16.9	26.2	24.7	36.6	44.8	26.7	0.0	0.0	8.3	229.2
Subtotal	17.1	14.9	13.0	16.9	26.2	24.7	36.6	44.8	26.7	0.0	0.0	8.3	229.2
Yucaipa Valley Water District													
Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	152.2	142.1	83.4	122.9	133.1	158.5	167.4	148.1	127.2	119.7	53.3	0.0	1,407.7
Subtotal	152.2	142.1	83.4	122.9	133.1	158.5	167.4	148.1	127.2	119.7	53.3	0.0	1,407.7
Total	920.9	977.9	737.1	806.2	1,536.0	1,700.8	1,973.2	2,107.5	1,958.8	1,722.6	1,204.9	1,078.9	16,724.7

(1) - All values rounded and subject to revision based on receipt of more accurate information

(2) - Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.

Table 3-1C
Appropriator Producer - Summary of Production for Calendar Year 2021 (ac-ft)

Owner & Well Name	Water Production by Appropriator (ac-ft) ⁽¹⁾												Total Production
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Banning, City of													
Well C2-A	18.6	14.4	14.5	3.3	1.2	44.0	93.3	82.1	88.5	62.8	36.9	48.0	507.7
Well C3	0.0	10.5	37.7	109.9	111.3	110.9	107.9	95.4	103.9	61.9	76.4	13.1	838.9
Well C4	110.9	123.0	95.0	138.3	141.5	138.7	133.2	133.5	135.6	136.7	129.7	49.4	1,465.4
Well M3	25.3	18.8	41.3	48.0	65.8	57.2	58.4	59.5	9.2	4.3	8.3	10.9	407.0
Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From BCVWD ⁽²⁾	4.2	0.0	0.0	0.3	0.0	1.8	73.5	71.4	71.7	76.1	73.4	76.6	449.0
Subtotal	159.1	166.7	188.5	299.9	319.8	352.6	466.3	441.9	408.9	341.8	324.7	198.1	3,668.1
Beaumont Cherry Valley Water District													
Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 3	0.8	15.5	4.0	38.4	154.2	162.0	156.6	167.1	100.6	60.3	91.3	39.9	990.7
Well 16	4.5	5.6	1.0	7.6	59.4	70.2	86.4	100.5	83.4	73.7	58.4	21.9	572.5
Well 21	126.6	98.2	99.4	147.1	175.4	200.4	209.1	193.0	169.1	137.6	177.4	151.9	1,885.2
Well 22	26.1	5.7	2.7	23.9	92.0	153.6	146.7	170.8	135.6	88.9	145.1	110.7	1,101.8
Well 23	108.4	121.0	117.9	139.8	222.4	284.0	347.8	360.2	290.7	201.9	106.9	3.1	2,304.1
Well 24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.9	119.7	213.1	215.5	655.2
Well 25	77.7	64.8	69.4	124.4	155.7	111.7	165.9	154.4	149.1	132.0	113.0	39.0	1,357.3
Well 26	220.4	173.0	216.3	186.4	48.0	294.2	370.8	321.0	257.7	242.5	51.8	141.6	2,523.7
Well 29	152.4	148.5	154.6	235.5	265.6	78.8	143.7	160.1	148.5	74.7	79.6	26.2	1,668.0
Egg Ranch Well	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
To Banning ⁽²⁾	-4.2	0.0	0.0	-0.3	0.0	-1.8	-73.5	-71.4	-71.7	-76.1	-73.4	-76.6	-449.0
Subtotal	712.7	632.4	665.3	902.9	1,172.7	1,353.1	1,553.4	1,555.7	1,369.9	1,055.1	963.2	673.3	12,609.5
South Mesa Water Company													
Well 4	24.6	20.7	23.3	26.6	37.6	36.3	46.7	56.6	54.3	52.9	49.8	36.8	466.0
Subtotal	24.6	20.7	23.3	26.6	37.6	36.3	46.7	56.6	54.3	52.9	49.8	36.8	466.0
Yucaipa Valley Water District													
Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	54.5	81.7	59.6	109.1	142.3	135.2	137.7	145.5	138.9	92.0	1.5	0.0	1,097.9
I-10 Logistics	0.0	0.0	0.0	0.0	0.0	50.5	17.5	27.8	21.7	8.7	3.0	1.4	130.6
Subtotal	54.5	81.7	59.6	109.1	142.3	185.7	155.2	173.2	160.6	100.7	4.5	1.4	1,228.5
Total	950.8	901.4	936.7	1,338.3	1,672.4	1,927.7	2,221.6	2,227.4	1,993.6	1,550.5	1,342.1	909.6	17,972.1

(1) - All values rounded and subject to revision based on receipt of more accurate information

(2) - Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.

Table 3-1D
Appropriator Producer - Summary of Production for Calendar Year 2022 (ac-ft)

Owner & Well Name	Water Production by Appropriator (ac-ft) ⁽¹⁾												Total Production
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Banning, City of													
Well C2-A	74.2	84.7	93.3	92.9	96.7	89.2	86.1	95.0	85.1	33.2	14.5	4.2	849.1
Well C3	46.1	48.0	43.1	72.1	97.4	81.5	86.1	91.1	59.1	77.3	2.9	0.0	704.7
Well C4	0.0	0.0	0.0	0.0	0.0	0.5	102.5	121.7	110.1	120.6	71.9	109.4	636.7
Well M3	34.9	46.8	52.5	67.2	70.2	64.4	24.0	1.9	2.3	5.9	11.7	3.3	385.1
Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From BCVWD ⁽²⁾	79.0	71.6	77.8	81.2	89.4	90.8	93.1	94.8	87.8	87.7	83.0	82.1	1,018.2
Subtotal	234.1	251.0	266.7	313.5	353.6	326.3	391.9	404.5	344.5	324.7	183.9	199.0	3,593.7
Beaumont Cherry Valley Water District													
Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 3	80.4	17.6	14.3	62.5	124.9	124.2	100.8	169.8	92.2	115.7	44.0	22.4	968.73
Well 16	7.9	28.8	74.6	71.0	64.3	53.4	81.9	88.0	70.7	47.2	38.9	13.3	640.08
Well 21	161.9	131.8	133.2	151.2	165.1	157.8	159.7	157.0	146.8	140.9	153.4	148.0	1,806.80
Well 22	103.6	72.6	86.1	118.5	128.1	122.1	141.2	139.0	101.4	115.6	108.7	114.9	1,351.83
Well 23	0.0	0.0	0.0	0.0	33.9	263.8	297.8	311.4	290.3	94.0	4.9	60.7	1,356.82
Well 24	190.5	184.5	203.7	237.3	247.8	264.8	302.8	311.2	240.9	245.1	206.8	221.1	2,856.53
Well 25	171.2	278.8	321.1	264.4	369.1	284.3	315.6	322.1	297.3	274.9	243.8	122.4	3,264.96
Well 26	49.1	66.4	75.1	89.6	131.3	136.2	161.9	148.4	133.1	130.6	81.3	59.2	1,262.34
Well 29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.46
To Banning ⁽²⁾	-79.0	-71.6	-77.8	-81.2	-89.4	-90.8	-93.1	-94.8	-87.8	-87.7	-83.0	-82.1	-1,018.2
Subtotal	685.7	708.8	830.2	913.4	1,175.2	1,315.8	1,468.8	1,552.0	1,284.8	1,076.4	799.4	680.0	12,490.4
South Mesa Water Company													
Well 4	35.3	35.6	41.9	45.1	55.0	60.6	68.7	63.0	55.7	52.0	34.1	27.8	574.7
Subtotal	35.3	35.6	41.9	45.1	55.0	60.6	68.7	63.0	55.7	52.0	34.1	27.8	574.7
Yucaipa Valley Water District													
Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	0.0	0.0	0.0	0.0	0.0	71.3	86.0	91.2	78.2	104.0	152.4	99.9	682.9
I-10 Logistics	1.0	1.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Subtotal	1.0	1.6	1.0	0.0	0.0	71.3	86.0	91.2	78.2	104.0	152.4	99.9	686.5
Total	956.0	997.0	1,139.8	1,272.0	1,583.8	1,774.1	2,015.3	2,110.7	1,763.2	1,557.1	1,169.7	1,006.6	17,345.3

(1) - All values rounded and subject to revision based on receipt of more accurate information

(2) - Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.

Table 3-1E
Appropriator Producer - Summary of Production for Calendar Year 2023 (ac-ft)

Owner & Well Name	Water Production by Appropriator (ac-ft) ⁽¹⁾												Total Production
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Banning, City of													
Well C2-A	28.3	44.4	3.2	52.8	4.6	2.4	25.1	15.5	2.6	7.7	0.5	0.6	187.7
Well C3	0.1	0.0	0.5	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.2	1.0
Well C4	11.0	0.0	0.0	6.6	26.3	5.0	103.1	47.1	37.8	7.4	24.2	2.0	270.6
Well M3	46.4	51.8	6.0	17.1	1.0	0.8	10.8	7.9	1.8	0.8	3.6	0.2	148.3
Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From BCVWD ⁽²⁾	81.7	74.0	81.3	78.2	82.2	76.8	77.5	77.0	60.0	11.5	9.9	9.4	719.4
Subtotal	167.5	170.2	91.0	154.7	114.3	85.1	216.4	147.6	102.2	27.4	38.2	12.3	1,326.9
Beaumont Cherry Valley Water District													
Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 3	2.0	6.4	1.1	2.6	73.6	120.4	111.2	102.8	64.8	0.0	0.0	0.7	485.63
Well 16	0.9	0.8	24.1	14.7	37.6	29.4	77.7	47.8	60.9	31.2	1.7	23.0	349.61
Well 21	137.3	69.5	62.1	97.9	142.5	155.8	156.2	148.0	122.9	81.0	0.0	0.0	1,173.24
Well 22	24.9	37.8	0.7	96.5	115.2	145.0	134.1	125.3	105.0	79.8	83.8	70.6	1,018.68
Well 23	18.8	195.8	141.3	161.9	234.2	239.6	259.0	231.2	225.4	239.5	165.4	207.2	2,319.43
Well 24	225.1	82.1	100.6	219.5	218.7	226.4	307.4	249.3	180.2	211.0	193.5	184.1	2,397.98
Well 25	143.3	156.8	167.7	68.3	77.1	12.8	305.6	345.0	308.9	212.6	261.3	128.1	2,187.47
Well 26	11.6	12.5	1.7	54.8	121.8	139.4	145.2	134.9	93.0	137.5	89.6	58.7	1,000.65
Well 29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
To Banning ⁽²⁾	-81.7	-74.0	-81.3	-78.2	-82.2	-76.8	-77.5	-77.0	-60.0	-11.5	-9.9	-9.4	-719.4
Subtotal	482.2	487.6	418.0	638.1	938.4	992.0	1,419.0	1,307.1	1,101.2	981.2	785.3	663.0	10,213.3
South Mesa Water Company													
Well 4	5.9	16.2	21.0	24.5	22.7	26.6	36.3	32.1	33.9	22.5	17.4	18.3	277.3
Subtotal	5.9	16.2	21.0	24.5	22.7	26.6	36.3	32.1	33.9	22.5	17.4	18.3	277.3
Yucaipa Valley Water District													
Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	65.9	50.3	69.6	120.7	120.0	31.7	0.0	67.3	74.9	135.7	80.5	75.1	891.7
I-10 Logistics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	65.9	50.3	69.6	120.7	120.0	31.7	0.0	67.3	74.9	135.7	80.5	75.1	891.7
Total	721.5	724.3	599.5	937.9	1,195.5	1,135.4	1,671.7	1,554.1	1,312.2	1,166.7	921.5	768.7	12,709.1

(1) - All values rounded and subject to revision based on receipt of more accurate information

(2) - Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.

Table 3-2A
Overlying Producer - Summary of Production for Calendar Year 2019 (ac-ft)

Owner and Well Name	Metered	Monthly Water Production by Overlying Producer ¹												Total ² Production	Overlying Water Right	Unused Overlying Allocation
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Beckman, Walter M. ⁽³⁾	Yes	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	58.1	57.2
California Oak Valley Golf and Resort LLC ⁽⁴⁾																
Oak Valley #1	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Oak Valley #2	Yes	8.9	3.6	8.1	24.1	36.7	58.9	69.3	102.7	63.1	59.0	55.2	0.0	489.6		
Subtotal		8.9	3.6	8.1	24.1	36.7	58.9	69.3	102.7	63.1	59.0	55.2	0.0	489.6	735.8	246.3
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production												1.6	426.0	424.4
Oak Valley Partners, LP ⁽⁵⁾														2.5	1,334.9	1,332.4
Plantation on the Lake LLC	Yes	12.4	7.8	18.1	25.3	21.3	32.1	34.4	39.0	34.4	8.7	10.1	14.9	258.7	450.0	191.3
Rancho Calimesa Mobile Home Park ⁽⁶⁾																
Well No.1	Yes	1.5	1.6	1.2	1.4	1.6	1.9	2.8	3.2	3.3	3.1	2.6	2.4	26.7		
Well No.2	No	0.5	0.5	0.8	0.8	0.7	1.5	0.0	0.0	0.0	0.0	0.0	0.6	5.4		
Subtotal		2.0	2.1	2.0	2.2	2.3	3.4	2.8	3.2	3.3	3.1	2.6	3.0	32.1	116.2	84.1
Roman Catholic Bishop of San Bernardino		Water Duty Method Used to Estimate Annual Production												0.0	119.3	119.3
Sharondale Mesa Owners Association ⁽⁶⁾																
Well No.1	Yes	2.8	2.5	1.5	7.1	3.3	6.2	7.8	7.4	6.9	10.1	8.2	4.0	67.8		
Well No.2	Yes	2.2	1.7	1.8	1.0	2.6	3.9	4.5	3.7	5.2	1.8	0.0	2.0	30.4		
Subtotal		5.0	4.2	3.4	8.1	5.9	10.1	12.3	11.1	12.1	12.0	8.2	6.0	98.3	154.9	56.6
Tukwet Canyon Golf Club ⁽⁷⁾																
Well A	Yes	0.4	0.7	0.9	1.6	0.9	8.2	6.8	0.0	1.4	0.9	0.8	0.9	23.4		
Well C	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Well D	Yes	9.8	0.1	1.7	85.7	29.4	103.2	169.2	155.5	128.1	104.1	64.5	4.2	855.5		
Subtotal		10.2	0.8	2.5	87.3	30.3	111.4	176.0	155.5	129.5	105.0	65.3	5.0	878.8	1,704.0	825.2
Stearns, Leonard M. and Dorothy D.	No	Water Duty Method Used to Estimate Annual Production												0.7	154.9	154.2
Sunny-Cal Egg and Poultry Company	No	Water Duty Method Used to Estimate Annual Production												4.1	1,115.0	1,110.9
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												2.3	232.4	230.1
Nikodinov, Nick	No	Water Duty Method Used to Estimate Annual Production												0.7	15.5	14.8
McAmis, Ronald L.	No	Water Duty Method Used to Estimate Annual Production												0.5	3.9	3.3
Aldama, Nicolas and Amalia	No	Water Duty Method Used to Estimate Annual Production												0.8	5.4	4.6
Gutierrez, Hector, et al.	No	Water Duty Method Used to Estimate Annual Production												1.4	7.7	6.4
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												0.4	1.9	1.6
TOTAL														1,773.3	6,636.0	4,862.7

1.- All values rounded and subject to revision based on receipt of more accurate information in the future.

2.- Total production is estimated for Overlying parties with un-metered wells.

3.- Mr. Beckman has not provided production information since 2014.

4.- Monthly production provided by BCVWD.

5.- Starting in 2008, the parcels owned by Oak Valley Partners (OVP) were no longer used for agricultural purposes. An annual production of 2.5 ac-ft has been estimated through 2018. At the October 4, 2023 meeting, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 through 2022. For CY 2019, 63.96 ac-ft were transferred. This transfer reduced OVPs water rights to 1,334.91 ac-ft.

6.- Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.

7.- Monthly production provided by the Morongo Band of Mission Indians.

Table 3-2B
Overlying Producer - Summary of Production for Calendar Year 2020 (ac-ft)

Owner and Well Name	Metered	Monthly Water Production by Overlying Producer ¹												Total ² Production	Overlying Water Right	Unused Overlying Allocation
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Beckman, Walter M. ⁽³⁾	Yes	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	58.1	57.2
California Oak Valley Golf and Resort LLC ⁽⁴⁾																
Oak Valley #1	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01		
Oak Valley #2	Yes	17.3	18.6	8.6	13.0	54.5	70.0	132.0	49.5	83.6	57.8	39.8	32.6	577.26		
Subtotal		17.3	18.6	8.6	13.0	54.5	70.0	132.0	49.5	83.6	57.8	39.8	32.6	577.28	735.8	158.6
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production												1.61	426.0	424.4
Oak Valley Partners, LP ⁽⁵⁾		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1,204.1	1,204.1
Plantation on the Lake LLC	Yes	21.3	20.2	7.6	21.1	33.2	38.3	38.9	14.7	0.0	0.0	0.0	0.0	195.24	450.0	254.8
Rancho Calimesa Mobile Home Park ⁽⁶⁾																
Well No.1	Yes	1.1	0.0	0.0	0.0	0.0	2.0	2.6	3.2	2.6	2.0	2.1	2.1	17.68		
Well No.2	No	0.7	1.8	1.8	2.8	1.3	0.6	0.9	0.4	0.5	1.2	0.0	0.4	12.42		
Subtotal		1.9	1.8	1.8	2.8	1.3	2.5	3.4	3.5	3.2	3.2	2.2	2.6	30.10	116.2	86.1
Roman Catholic Bishop of San Bernardino		Water Duty Method Used to Estimate Annual Production												0.00	119.3	119.3
Sharondale Mesa Owners Association ⁽⁶⁾																
Well No.1	Yes	3.5	6.4	3.6	2.5	6.6	8.2	5.8	11.3	11.9	13.1	7.3	7.4	87.55		
Well No.2	Yes	3.5	1.9	1.7	2.3	4.5	4.4	4.3	5.3	0.7	0.0	5.3	4.5	38.27		
Subtotal		6.9	8.2	5.3	4.8	11.1	12.6	10.1	16.6	12.6	13.2	12.6	11.9	125.82	154.9	29.1
Tukwet Canyon Golf Club ⁽⁷⁾																
Well A	Yes	1.1	0.8	0.7	0.9	0.7	0.8	1.1	1.6	1.5	1.5	1.9	3.0	15.54		
Well C	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00		
Well D	Yes	18.1	35.9	27.9	35.6	14.0	120.7	173.2	162.5	153.0	88.1	67.8	57.0	953.74		
Subtotal		19.1	36.6	28.6	36.4	14.7	121.5	174.3	164.2	154.5	89.6	69.7	60.0	969.28	1,704.0	734.8
Stearns, Leonard M. and Dorothy D.	No	Water Duty Method Used to Estimate Annual Production												0.70	154.9	154.2
Sunny-Cal Egg and Poultry Company	No	Water Duty Method Used to Estimate Annual Production												4.29	1,115.0	1,110.7
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												2.40	232.4	230.0
Nikodinov, Nick	No	Water Duty Method Used to Estimate Annual Production												0.76	15.5	14.7
McAmis, Ronald L.	No	Water Duty Method Used to Estimate Annual Production												0.55	3.9	3.3
Aldama, Nicolas and Amalia	No	Water Duty Method Used to Estimate Annual Production												0.86	5.4	4.6
Gutierrez, Hector, et al.	No	Water Duty Method Used to Estimate Annual Production												1.42	7.7	6.3
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												0.35	1.9	1.6
TOTAL														1,911.52	6,505.2	4,593.7

1.- All values rounded and subject to revision based on receipt of more accurate information in the future.

2.- Total production is estimated for Overlying parties with un-metered wells.

3.- Mr. Beckman has not provided production information since 2014.

4.- California Oak Valley Golf and Resort monthly production provided by BCVWD.

5.- Starting in 2008, the parcels owned by Oak Valley Partners (OVP) were no longer used for agricultural purposes. An annual production of 2.5 ac-ft has been estimated through 2018. At the October 4, 2023 meeting, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 through 2022. For CY 2020, 194.82 ac-ft were transferred. This transfer reduced OVPs water rights to 1,204.05 ac-ft.

6.- Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.

7.- Monthly production provided by the Morongo Band of Mission Indians.

Table 3-2C
Overlying Producer - Summary of Production for Calendar Year 2021 (ac-ft)

Owner and Well Name	Metered	Monthly Water Production by Overlying Producer ¹												Total ² Production	Overlying Water Right	Unused Overlying Allocation
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Beckman, Walter M. ⁽³⁾	Yes	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	58.1	57.2
California Oak Valley Golf and Resort LLC ⁽⁴⁾																
Oak Valley #1	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Oak Valley #2	Yes	20.7	18.7	16.0	37.4	7.0	49.6	98.0	98.0	65.5	43.0	48.6	22.6	525.0		
Subtotal		20.7	18.7	16.0	37.4	7.0	49.6	98.0	98.0	65.5	43.0	48.6	22.6	525.0	735.8	210.8
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production									12%	8%	9%	1.6	426.0	424.4
Oak Valley Partners, LP ⁽⁵⁾		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,032.1	1,032.1
Plantation on the Lake LLC	Yes	0.0	0.0	0.0	0.0	0.0	0.0	18.5	41.3	34.0	28.7	27.9	11.0	161.5	450.0	288.5
Rancho Calimesa Mobile Home Park ⁽⁶⁾																
Well No.1	Yes	1.3	1.8	1.6	2.5	2.2	2.3	0.0	0.0	1.1	1.4	2.0	1.8	18.1		
Well No.2	No	0.7	1.0	0.0	0.4	0.3	0.5	0.2	0.8	0.8	1.1	0.5	0.5	6.9		
Subtotal		2.0	2.7	1.6	2.9	2.6	2.9	0.2	0.8	1.9	2.5	2.5	2.3	25.0	116.2	91.2
Roman Catholic Bishop of San Bernardino		Water Duty Method Used to Estimate Annual Production												0.0	119.3	119.3
Sharondale Mesa Owners Association ⁽⁶⁾																
Well No.1	Yes	4.0	4.8	4.7	7.2	5.8	7.3	7.9	8.4	7.8	6.0	5.7	3.3	72.9		
Well No.2	Yes	3.3	3.7	4.0	5.0	4.2	5.3	5.1	5.1	5.0	4.4	4.2	2.6	51.8		
Subtotal		7.3	8.5	8.7	12.2	9.9	12.6	13.0	13.5	12.8	10.4	9.9	5.9	124.7	154.9	30.2
Tukwet Canyon Golf Club ⁽⁷⁾																
Well A	Yes	2.3	1.3	1.8	2.2	2.2	1.4	1.6	5.2	2.3	1.7	1.9	1.7	25.7		
Well C	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Well D	Yes	27.3	26.7	39.2	98.8	130.9	158.7	151.7	153.6	122.7	71.2	86.1	23.9	1,090.8		
Subtotal		29.5	28.1	41.1	101.0	133.1	160.2	153.3	158.7	125.1	72.8	88.0	25.5	1,116.5	1,704.0	587.6
Stearns, Leonard M. and Dorothy D.	No	Water Duty Method Used to Estimate Annual Production												0.7	154.9	154.2
Sunny-Cal Egg and Poultry Company	No	Water Duty Method Used to Estimate Annual Production												4.3	1,115.0	1,110.7
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												2.4	232.4	230.0
Nikodinov, Nick	No	Water Duty Method Used to Estimate Annual Production												0.8	15.5	14.7
McAmis, Ronald L.	No	Water Duty Method Used to Estimate Annual Production												0.6	3.9	3.3
Aldama, Nicolas and Amalia	No	Water Duty Method Used to Estimate Annual Production												0.9	5.4	4.6
Gutierrez, Hector, et al.	No	Water Duty Method Used to Estimate Annual Production												1.4	7.7	6.3
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												0.4	1.9	1.6
TOTAL														1,966.4	6,333.2	4,366.9

1.- All values rounded and subject to revision based on receipt of more accurate information in the future.

2.- Total production is estimated for Overlying parties with un-metered wells.

3.- Mr. Beckman has not provided production information since 2014.

4.- California Oak Valley Golf and Resort monthly production provided by BCVWD thorough August 2021. Production for Sep to Dec was not available and was estimated as 34.22 percent of total based on 2017-20 records. This number is slightly lower than the one presented in the 2021 annual report when a 35 percent of total was used for these four months.

5.- Starting in 2008, the parcels owned by Oak Valley Partners (OVP) were no longer used for agricultural purposes. An annual production of 2.5 ac-ft has been estimated through 2018. At the October 4, 2023 meeting, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 thorough 2022. For CY 2021, 366.77 ac-ft were transferred. This transfer reduced OVPs water rights to 1,032.10 ac-ft.

6.- Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.

7.- Monthly production provided by the Morongo Band of Mission Indians.

Table 3-2D
Overlying Producer - Summary of Production for Calendar Year 2022 (ac-ft)

Owner and Well Name	Metered	Monthly Water Production by Overlying Producer ¹												Total ² Production	Overlying Water Right	Unused Overlying Allocation
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Beckman, Walter M. ⁽³⁾	Yes	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	58.1	57.2
California Oak Valley Golf and Resort LLC ⁽⁴⁾																
Oak Valley #1	Yes	0.0	0.0	0.0	0.1	0.0	0.0	0.0	68.6	63.3	53.4	33.3	14.3	232.94		
Oak Valley #2	Yes	8.3	21.5	29.5	49.8	49.5	95.1	76.7	0.0	0.0	0.0	0.0	0.0	330.50		
Subtotal		8.3	21.5	29.5	49.9	49.5	95.1	76.7	68.6	63.3	53.4	33.3	14.3	563.44	735.8	172.4
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production												1.63	426.0	424.4
Oak Valley Partners, LP ⁽⁵⁾		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	920.6	920.6
Plantation on the Lake LLC	Yes	20.7	18.7	26.7	24.8	27.1	35.6	39.6	37.6	32.8	41.4	18.1	12.9	335.86	450.0	114.2
Rancho Calimesa Mobile Home Park ⁽⁶⁾																
Well No.1	Yes	1.8	1.9	1.9	1.9	2.2	2.2	2.5	3.1	0.0	0.0	0.0	0.0	17.66		
Well No.2	No	0.4	0.3	0.6	0.6	0.7	0.6	0.7	0.6	2.1	2.3	2.3	2.6	13.73		
Subtotal		2.3	2.3	2.5	2.5	2.9	2.8	3.1	3.8	2.1	2.3	2.3	2.6	31.40	116.2	84.8
Roman Catholic Bishop of San Bernardino		Water Duty Method Used to Estimate Annual Production												0.00	119.3	119.3
Sharondale Mesa Owners Association ⁽⁶⁾																
Well No.1	Yes	2.7	3.5	4.5	4.8	6.7	5.6	8.4	7.6	7.5	5.2	4.3	3.1	64.02		
Well No.2	Yes	2.5	3.3	4.0	3.9	5.2	5.9	3.7	5.3	5.1	4.5	3.5	2.8	49.58		
Subtotal		5.2	6.8	8.5	8.8	11.9	11.5	12.1	12.8	12.6	9.7	7.8	5.9	113.61	154.9	41.3
Tukwet Canyon Golf Club ⁽⁷⁾																
Well A	Yes	1.8	1.4	1.4	1.6	0.9	2.1	19.7	1.6	1.5	2.3	1.6	1.5	37.38		
Well C	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00		
Well D	Yes	44.3	49.1	62.5	88.1	128.4	157.0	46.1	188.7	137.6	76.7	38.4	22.0	1,038.92		
Subtotal		46.1	50.5	63.9	89.7	129.3	159.1	65.8	190.3	139.1	79.0	40.0	23.5	1,076.30	1,704.0	627.7
Stearns, Leonard M. and Dorothy D.	No	Water Duty Method Used to Estimate Annual Production												0.70	154.9	154.2
Sunny-Cal Egg and Poultry Company	No	Water Duty Method Used to Estimate Annual Production												4.39	1,115.0	1,110.6
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												2.46	232.4	229.9
Nikodinov, Nick	No	Water Duty Method Used to Estimate Annual Production												0.77	15.5	14.7
McAmis, Ronald L.	No	Water Duty Method Used to Estimate Annual Production												0.56	3.9	3.3
Aldama, Nicolas and Amalia	No	Water Duty Method Used to Estimate Annual Production												0.88	5.4	4.5
Gutierrez, Hector, et al.	No	Water Duty Method Used to Estimate Annual Production												1.44	7.7	6.3
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												0.35	1.9	1.6
TOTAL														2,134.64	6,221.8	4,087.1

1.- All values rounded and subject to revision based on receipt of more accurate information in the future.

2.- Total production is estimated for Overlying parties with un-metered wells.

3.- Mr. Beckman has not provided production information since 2014.

4.- California Oak Valley Golf and Resort monthly production provided by BCVWD.

5.- Starting in 2008, the parcels owned by Oak Valley Partners (OVP) were no longer used for agricultural purposes. An annual production of 2.5 ac-ft has been estimated through 2018. At the October 4, 2023 meeting, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 through 2022. For CY 2022, 478.25 ac-ft were transferred. This transfer reduced OVPs water rights to 920.62 ac-ft.

6.- Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.

7.- Monthly production provided by the Morongo Band of Mission Indians.

Table 3-2E
Overlying Producer - Summary of Production for Calendar Year 2023 (ac-ft)

Owner and Well Name	Metered	Monthly Water Production by Overlying Producer ¹												Total ² Production	Overlying Water Right	Unused Overlying Allocation
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Beckman, Walter M. ⁽³⁾	Yes	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	58.1	57.2
California Oak Valley Golf and Resort LLC ⁽⁴⁾																
Oak Valley #1	Yes	0.0	1.4	0.7	2.9	5.4	5.8	9.1	4.5	5.5	0.0	0.0	0.0	35.38		
Oak Valley #2	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.3	71.2	39.4	10.6	174.56		
Subtotal		0.0	1.4	0.7	2.9	5.4	5.8	9.1	4.5	58.8	71.2	39.4	10.6	209.94	735.8	525.9
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production												1.63	426.0	424.4
Oak Valley Partners, LP ⁽⁵⁾		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	920.6	920.6
Plantation on the Lake LLC	Yes	12.9	13.2	12.1	21.5	26.4	35.2	33.0	38.8	23.5	29.7	21.9	20.5	288.83	450.0	161.2
Rancho Calimesa Mobile Home Park ⁽⁶⁾																
Well No.1	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00		
Well No.2	No	2.1	2.2	2.0	2.1	2.5	2.6	2.4	4.3	0.8	3.0	2.7	2.1	28.79		
Subtotal		2.1	2.2	2.0	2.1	2.5	2.6	2.4	4.3	0.8	3.0	2.7	2.1	28.79	116.2	87.4
Roman Catholic Bishop of San Bernardino		Water Duty Method Used to Estimate Annual Production												0.00	119.3	119.3
Sharondale Mesa Owners Association ⁽⁶⁾																
Well No.1	Yes	0.5	0.1	1.4	2.0	4.7	6.2	6.2	6.6	6.1	6.7	7.6	2.5	50.47		
Well No.2	Yes	2.7	5.1	1.4	4.2	4.2	4.5	4.7	4.9	4.3	3.9	0.2	2.4	42.32		
Subtotal		3.1	5.2	2.7	6.2	8.9	10.7	10.9	11.4	10.4	10.5	7.8	4.8	92.78	154.9	62.1
Tukwet Canyon Golf Club ⁽⁷⁾																
Well A	Yes	1.7	1.7	2.0	1.8	2.1	2.0	0.6	1.1	0.9	2.0	0.4	0.5	16.99		
Well C	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00		
Well D	Yes	11.8	26.9	0.1	56.5	101.7	99.2	169.1	115.0	96.4	86.4	65.4	37.7	866.13		
Subtotal		13.5	28.6	2.1	58.4	103.8	101.2	169.7	116.1	97.4	88.4	65.8	38.2	883.12	1,704.0	820.9
Stearns, Leonard M. and Dorothy D.	No	Water Duty Method Used to Estimate Annual Production												0.70	154.9	154.2
Sunny-Cal Egg and Poultry Company	No	Water Duty Method Used to Estimate Annual Production												4.39	1,115.0	1,110.6
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												2.46	232.4	229.9
Nikodinov, Nick	No	Water Duty Method Used to Estimate Annual Production												0.77	15.5	14.7
McAmis, Ronald L.	No	Water Duty Method Used to Estimate Annual Production												0.56	3.9	3.3
Aldama, Nicolas and Amalia	No	Water Duty Method Used to Estimate Annual Production												0.88	5.4	4.5
Gutierrez, Hector, et al.	No	Water Duty Method Used to Estimate Annual Production												1.44	7.7	6.3
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												0.35	1.9	1.6
TOTAL														1,517.50	6,221.8	4,704.2

1.- All values rounded and subject to revision based on receipt of more accurate information in the future.

2.- Total production is estimated for Overlying parties with un-metered wells.

3.- Mr. Beckman has not provided production information since 2014.

4.- California Oak Valley Golf and Resort monthly production provided by BCVWD.

5.- Starting in 2008, the parcels owned by Oak Valley Partners (OVP) were no longer used for agricultural purposes. An annual production of 2.5 ac-ft has been estimated through 2018. At the October 4, 2023 meeting, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 through 2022. For CY 2023, the same amount used in CY 2022 of 478.25 ac-ft was used. This reduced OVPs water rights to 920.62 ac-ft.

6.- Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.

7.- Monthly production provided by the Morongo Band of Mission Indians.

Table 3-3
Production Summary for Appropriator and Overlying Producers in the Beaumont Basin
2014 through 2023 - Calendar Year Accounting (ac-ft)

	Annual Production (ac-ft)									
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Appropriator Parties										
Banning, City of	2,585	1,678	1,473	1,443	2,261	2,121	2,549	3,668	3,594	1,327
Beaumont-Cherry Valley Water District	10,806	8,973	10,160	11,651	12,209	11,141	12,539	12,610	12,490	10,213
South Mesa Water Company	474	317	353	368	365	331	229	466	575	277
Yucaipa Valley Water District	1,198	119	5	0	191	529	1,408	1,228	687	892
Subtotal	15,063	11,087	11,990	13,462	15,026	14,121	16,725	17,972	17,345	12,709
Overlying Parties										
Beckman, Walter M	0.9	0.86	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
California Oak Valley Golf and Resort LLC	417.0	751.15	552.3	830.0	573.1	489.6	577.3	525.0	563.4	209.9
Merlin Properties	1.6	1.61	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Oak Valley Partners, LP	2.5	2.50	2.5	2.5	2.5	2.5	-	-	-	-
Plantation on the Lake LLC	403.8	302.11	293.4	417.8	471.2	258.7	195.2	161.5	335.9	288.8
Rancho Calimesa Mobile Home Park	16.2	23.44	31.2	31.2	32.7	32.1	30.1	25.0	31.4	28.8
Roman Catholic Bishop of San Bernardino	-	-	-	-	-	-	-	-	-	-
Sharondale Mesa Owners Association	137.3	94.11	84.8	117.9	116.4	98.3	125.8	124.7	113.6	92.8
Tukwet Canyon Golf Club ¹	1,227.9	898.60	958.6	991.4	1,010.9	878.8	969.3	1,116.5	1,076.3	883.1
Stearns, Leonard M. and Dorothy D.	0.7	0.70	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Sunny-Cal Egg and Poultry Company	4.4	4.24	4.2	4.0	4.2	4.1	4.3	4.3	4.4	4.4
Albor Properties III, LP ²	2.5	2.37	2.3	2.2	2.3	2.3	2.4	2.4	2.5	2.5
Nikodinov, Nick	0.8	0.75	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8
McAmis, Ronald L.	0.6	0.55	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6
Aldama, Nicolas and Amalia	0.9	0.86	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9
Gutierrez, Hector, et. al.	1.4	1.41	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Darmont, Boris and Miriam	0.4	0.35	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Subtotal	2,219.0	2,085.6	1,936.4	2,403.9	2,220.3	1,773.3	1,911.5	1,966.4	2,134.6	1,517.5
Total	17,281.7	13,173.0	13,926.1	15,866.3	17,246.4	15,894.8	18,636.2	19,938.5	19,479.9	14,226.6

Table 3-4
Annual Supplemental Recharge to the Beaumont Basin - Calendar Years 2003-2023

Year	Supplemental Recharge (ac-ft)					
	Banning ¹	Beaumont	BCVWD ¹	YVWD	SGPWA ²	Total
2003	-	-	-	-	-	-
2004	-	-	-	-	813.8	813.8
2005	-	-	-	-	687.4	687.4
2006	-	-	3,501.0	-	777.7	4,278.7
2007	-	-	4,501.0	-	541.3	5,042.3
2008	1,534.0	-	2,399.0	-	1,047.4	4,980.4
2009	2,741.2	-	2,741.2	-	823.4	6,305.8
2010	1,338.0	-	5,727.0	-	1,222.3	8,287.3
2011	800.0	-	7,979.0	-	1,842.0	10,621.0
2012	1,200.0	-	7,783.0	-	1,827.2	10,810.2
2013	1,200.0	-	7,403.0	-	881.8	9,484.8
2014	608.0	-	4,405.0	-	16.5	5,029.5
2015	694.0	-	2,773.0	-	9.2	3,476.2
2016	1,477.0	-	9,319.0	-	17.8	10,813.8
2017	1,350.0	-	13,590.0	-	-	14,940.0
2018	500.0	-	12,121.0	-	-	12,621.0
2019	250.0	-	13,645.0	-	257.8	14,152.8
2020	250.0	-	11,005.0	-	214.0	11,469.0
2021	-	-	2,468.0	-	36.0	2,504.0
2022	35.0	-	1,776.0	-	0.6	1,811.6
2023	1,000.0	-	18,000.0	500.0	893.0	20,393.0
Totals	14,977.2	-	131,136.2	500.0	11,909.2	158,522.6

1.- SWP water recharged in the BCVWD Noble Creek Recharge Facility

2.- Through 2018, the SGPWA recharged imported water at the Little San Geronio Creek Spreading Ponds, located just to the north of the basin boundary. Starting in 2019, the SGPWA has the ability to recharge at their new spreading basins located at the southwest corner of Beaumont Blvd. and Brookside Ave. Imported water recharged at this location will be credited to the agency in their storage account.

Table 3-5**City of Beaumont Wastewater Treatment Plant - Monthly Discharges 2007-2023****Treated Wastewater Daily Average Discharges (mgd) to DDP1 - Cooper's Creek**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average (mgd)	Annual (ac-ft)
2007	2.32	2.17	2.25	2.23	2.61	2.57	2.57	2.66	2.66	2.67	2.63	2.50	2.49	2,789
2008	2.44	2.79	2.49	2.65	2.55	2.59	2.55	2.59	2.60	2.50	2.57	2.65	2.58	2,896
2009	2.52	2.66	2.56	2.58	2.59	2.56	2.44	2.63	2.60	2.61	2.63	2.69	2.59	2,901
2010	2.83	2.65	2.66	2.60	2.00	1.88	1.94	1.96	1.94	2.00	2.04	2.22	2.22	2,492
2011	2.07	2.12	2.06	2.01	2.04	2.25	2.23	2.13	2.10	2.08	2.19	2.13	2.12	2,371
2012	2.19	2.64	2.19	2.23	2.29	2.24	2.28	2.29	2.24	2.70	2.38	2.33	2.33	2,620
2013	2.76	2.80	2.80	2.81	2.78	2.78	2.81	2.82	2.89	2.83	2.21	2.50	2.73	3,061
2014	2.62	2.22	2.45	2.48	2.61	2.62	2.61	2.74	2.87	2.74	2.99	3.12	2.67	2,995
2015	2.87	2.94	2.97	2.90	2.92	2.98	2.99	3.10	3.08	3.08	3.06	3.11	3.00	3,361
2016	3.15	3.06	3.01	3.07	3.11	3.15	3.15	3.26	3.22	3.18	3.19	3.30	3.15	3,543
2017	3.36	3.26	3.17	3.35	3.22	3.18	3.21	3.31	3.32	3.26	3.29	3.31	3.27	3,663
2018	3.37	3.28	3.33	3.32	3.30	3.31	3.41	3.51	3.47	3.42	3.51	3.47	3.39	3,800
2019	3.61	3.61	3.64	3.66	3.69	3.61	3.59	3.72	3.80	3.64	3.77	3.72	3.67	4,112
2020	3.73	3.75	3.92	4.02	3.82	3.81	3.81	4.09	4.05	3.88	3.66	3.46	3.83	4,305
2021	3.51	3.44	3.70	3.60	3.97	4.55	3.50	3.65	3.61	3.60	3.57	3.72	3.70	4,148
2022	3.61	3.62	3.62	3.56	3.54	3.65	3.55	3.66	3.68	3.28	3.23	3.17	3.51	3,936
2023	3.40	3.22	3.52	3.24	3.32	3.36	3.36	3.53	3.47	3.37	3.39	3.41	3.38	3,790

Treated Wastewater Daily Average Discharges (mgd) to DDP7 - Marshalls Creek

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average (mgd)	Annual (ac-ft)
2010	0.00	0.00	0.82	0.67	0.57	0.62	0.70	0.69	0.69	0.70	0.67	0.65	0.57	530
2011	0.66	0.63	0.63	0.63	0.58	0.45	0.52	0.63	0.64	0.60	0.55	0.54	0.59	660
2012	0.54	0.54	0.52	0.47	0.45	0.45	0.45	0.49	0.50	0.47	0.41	0.53	0.49	546
2013	0.48	0.52	0.45	0.43	0.25	0.44	0.52	0.61	0.33	0.69	0.57	0.41	0.47	530
2014	0.21	0.65	0.61	0.66	0.61	0.42	0.49	0.35	0.21	0.24	0.02	0.02	0.37	416
2015	0.24	0.20	0.31	0.31	0.22	0.38	0.37	0.23	0.00	0.00	0.00	0.00	0.19	212

Table 3-6
Overlying Parties Production Rights Allocation Based on Revised Safe Yield

Overlying Party to the 2003 Judgment	Initial Overlying Water Right through 2013	New Overlying Water Right Starting in 2014	5-Year (2019-23) Average Production (ac-ft)	5-Year (2019-23) Running Avg % of Water Right
Sharondale Mesa Owners Association	200.0	154.91	111.0	71.7%
California Oak Valley Golf and Resort LLC ⁽¹⁾	950.0	735.84	473.0	64.3%
Tukwet Canyon Golf Club	2,200.0	1,704.05	984.8	57.8%
Plantation on the Lake LLC	581.0	450.02	248.0	55.1%
Rancho Calimesa Mobile Home Park	150.0	116.18	29.5	25.4%
Gutierrez, Hector, et al.	10.0	7.75	1.4	18.3%
Darmont, Boris and Miriam	2.5	1.94	0.4	18.1%
Aldama, Nicolas and Amalia	7.0	5.42	0.9	15.9%
McAmis, Ronald L.	5.0	3.87	0.6	14.3%
Nikodinov, Nick	20.0	15.49	0.8	4.9%
Beckman, Walter M.	75.0	58.09	0.9	1.5%
Albor Properties III, LP	300.0	232.37	2.4	1.0%
Stearns, Leonard M. and Dorothy D.	200.0	154.91	0.7	0.5%
Sunny-Cal Egg and Poultry Company	1,439.5	1,114.99	4.3	0.4%
Merlin Properties	550.0	426.01	1.6	0.4%
Oak Valley Partners, LP ⁽²⁾	1,806.0	1,398.87	0.5	0.0%
Roman Catholic Bishop of San Bernardino	154.0	119.28	0.0	0.0%
	8,650.0	6,700.0	1,860.7	27.8%

(1) - California Oak Valley Golf and Resort LLC exceeded its annual production right in 2017; however, their average five-year production over any five-year period has been below their overlying water right.

(2) - Under Resolution 17-02, adopted August 30, 2017, Oak Valley Partners LP (OVP) agreed to transfer its Overlying water rights to particular development parcels, intending to secure commitment from YVWD to provide water service to development phases of OVP's Summerwind Ranch Specific Plan (Project) located in the Beaumont Basin. As of the end of CY 2023, OVP has transferred 478.25 ac-ft of water rights to YVWD resulting in a reduction of OVP's rights to 920.62 ac-ft.

Table 3-7
Summary of Unused Overlying Water and Allocation to Appropriators (ac-ft)

Accounting Year	Overlying Water Right	Overlying Production	Unused Overlying Water Right	Allocation Year	City of Banning	City of Beaumont	Beaumont Cherry Valley WD	South Mesa Water Co.	Yucaipa Valley Water District	Total
2003	4,325	2,441	1,884	2008	592	0	801	235	256	1,884
2004	8,650	3,576	5,074	2009	1,595	0	2,157	633	689	5,074
2005	8,650	3,293	5,357	2010	1,684	0	2,277	669	728	5,357
2006	8,650	3,597	5,053	2011	1,588	0	2,148	631	686	5,053
2007	8,650	3,307	5,343	2012	1,679	0	2,272	667	726	5,343
2008	8,650	2,872	5,778	2013	1,816	0	2,456	721	785	5,778
2009	8,650	2,838	5,812	2014	1,827	0	2,471	725	789	5,812
2010	8,650	1,976	6,674	2015	2,097	0	2,837	833	906	6,674
2011	8,650	1,971	6,679	2016	2,099	0	2,839	833	907	6,679
2012	8,650	2,085	6,565	2017	2,063	0	2,791	819	891	6,565
2013	8,650	2,285	6,365	2018	2,001	0	2,706	794	864	6,365
2014	6,700	2,219	4,481	2019	1,408	0	1,905	559	609	4,481
2015	6,700	2,086	4,614	2020	1,450	0	1,962	576	627	4,614
2016	6,700	1,936	4,764	2021	1,497	0	2,025	595	647	4,764
2017	6,700	2,404	4,296	2022	1,350	0	1,826	536	583	4,296
2018 ¹	6,700	2,220	4,480	2023	1,408	0	1,904	559	608	4,480
2019	6,636	1,773	4,863	2024	1,528	0	2,067	607	660	4,863
2020	6,505	1,912	4,594	2025	1,444	0	1,953	573	624	4,594
2021	6,333	1,966	4,367	2026	1,373	0	1,856	545	593	4,367
2022	6,222	2,135	4,087	2027	1,285	0	1,737	510	555	4,087
2023	6,222	1,518	4,704	2028	1,479	0	2,000	587	639	4,704

1.- At the October 4, 2023, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 through 2022 as follows: a) 2018, 0.11 ac-ft b) 2019, 63.96 ac-ft, c) 2020, 194.82 ac-ft, d) 2021, 366.77 ac-ft, and e) 2022, 478.25 ac-ft. Transfers for CY 2023 remain at the CY 2022 level since YVWD has not documented increasing delivery volumes. As a result, cumulative Overlying water rights have decreased by the listed quantities.

Table 3-8
Appropriator's Production Right

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
City of Banning								
2003	2,514.5	0.0	0.0	0.0	0.0	0.0	0.0	2,514.5
2004	5,029.0	0.0	0.0	0.0	0.0	0.0	0.0	5,029.0
2005	5,029.0	0.0	0.0	0.0	0.0	0.0	0.0	5,029.0
2006	5,029.0	0.0	0.0	0.0	0.0	0.0	0.0	5,029.0
2007	5,029.0	0.0	0.0	1,500.0	0.0	0.0	0.0	6,529.0
2008	5,029.0	592.2	0.0	0.0	0.0	0.0	0.0	5,621.2
2009	5,029.0	1,594.7	0.0	0.0	0.0	0.0	0.0	6,623.7
2010	5,029.0	1,683.8	0.0	0.0	0.0	0.0	0.0	6,712.8
2011	5,029.0	1,588.2	0.0	0.0	0.0	0.0	0.0	6,617.2
2012	5,029.0	1,679.5	0.0	0.0	0.0	0.0	0.0	6,708.5
2013	2,514.5	1,816.1	0.0	0.0	0.0	0.0	0.0	4,330.6
2014	0.0	1,826.7	0.0	0.0	0.0	0.0	150.4	1,977.1
2015	0.0	2,097.5	0.0	0.0	0.0	0.0	0.0	2,097.5
2016	0.0	2,099.1	0.0	0.0	0.0	0.0	0.0	2,099.1
2017	0.0	2,063.2	0.0	0.0	0.0	0.0	0.0	2,063.2
2018	0.0	2,000.6	0.0	0.0	0.0	0.0	0.0	2,000.6
2019	0.0	1,408.4	0.0	0.0	0.0	0.0	462.9	1,871.3
2020	0.0	1,450.3	0.0	0.0	0.0	0.0	848.3	2,298.6
2021	0.0	1,497.2	0.0	60.0	0.0	0.0	2,110.9	3,668.1
2022	0.0	1,350.3	0.0	0.0	0.0	0.0	2,208.4	3,558.7
2023	0.0	1,407.9	0.0	0.0	0.0	0.0	0.0	1,407.9

(1) - BBWM has not yet develop a policy to account for New Yield in the Beaumont Basin.

Table 3-8
Appropriator's Production Right

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
Beaumont Cherry Valley Water District								
2003	3,401.0	0.0	0.0	0.0	0.0	0.0	110.9	3,511.9
2004	6,802.0	0.0	0.0	0.0	0.0	0.0	71.9	6,873.9
2005	6,802.0	0.0	0.0	0.0	0.0	0.0	223.6	7,025.6
2006	6,802.0	0.0	0.0	0.0	0.0	0.0	0.0	6,802.0
2007	6,802.0	0.0	0.0	1,500.0	0.0	0.0	0.0	8,302.0
2008	6,802.0	801.0	0.0	2,500.0	0.0	0.0	0.0	10,103.0
2009	6,802.0	2,156.8	0.0	2,000.0	0.0	0.0	0.0	10,958.8
2010	6,802.0	2,277.4	0.0	0.0	0.0	0.0	0.0	9,079.4
2011	6,802.0	2,148.1	0.0	3,500.0	0.0	0.0	0.0	12,450.1
2012	6,802.0	2,271.5	0.0	0.0	0.0	0.0	0.0	9,073.5
2013	3,401.0	2,456.4	0.0	0.0	0.0	0.0	0.0	5,857.4
2014	0.0	2,470.6	0.0	0.0	0.0	0.0	3,929.9	6,400.5
2015	0.0	2,836.9	0.0	0.0	0.0	0.0	3,362.8	6,199.8
2016	0.0	2,839.1	0.0	0.0	0.0	0.0	0.0	2,839.1
2017	0.0	2,790.6	0.0	0.0	0.0	0.0	0.0	2,790.6
2018	0.0	2,705.9	0.0	0.0	0.0	0.0	0.0	2,705.9
2019	0.0	1,904.9	0.0	0.0	0.0	0.0	0.0	1,904.9
2020	0.0	1,961.6	0.0	0.0	0.0	0.0	0.0	1,961.6
2021	0.0	2,025.0	0.0	447.8	0.0	0.0	7,668.7	10,141.5
2022	0.0	1,826.3	0.0	0.0	0.0	0.0	8,888.1	10,714.4
2023	0.0	1,904.3	0.0	0.0	0.0	0.0	0.0	1,904.3

(1) - BBWM has not yet develop a policy to account for New Yield in the Beaumont Basin.

Table 3-8
Appropriator's Production Right

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
City of Beaumont								
2003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(1) - BBWM has not yet develop a policy to account for New Yield in the Beaumont Basin.

Table 3-8
Appropriator's Production Right

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
South Mesa Water Company								
2003	998.0	0.0	0.0	0.0	0.0	0.0	0.0	998.0
2004	1,996.0	0.0	0.0	0.0	0.0	0.0	0.0	1,996.0
2005	1,996.0	0.0	0.0	0.0	0.0	0.0	0.0	1,996.0
2006	1,996.0	0.0	0.0	0.0	0.0	0.0	0.0	1,996.0
2007	1,996.0	0.0	0.0	-3,000.0	0.0	0.0	1,669.8	665.8
2008	1,996.0	235.2	0.0	-2,500.0	0.0	0.0	739.7	470.9
2009	1,996.0	633.2	0.0	-2,000.0	0.0	0.0	0.0	629.2
2010	1,996.0	668.6	0.0	0.0	0.0	0.0	0.0	2,664.6
2011	1,996.0	630.6	0.0	-3,500.0	0.0	0.0	1,293.3	419.9
2012	1,996.0	666.9	0.0	0.0	0.0	0.0	0.0	2,662.9
2013	998.0	721.1	0.0	0.0	0.0	0.0	0.0	1,719.1
2014	0.0	725.3	0.0	0.0	0.0	0.0	0.0	725.3
2015	0.0	832.9	0.0	0.0	0.0	0.0	0.0	832.9
2016	0.0	833.5	0.0	0.0	0.0	0.0	0.0	833.5
2017	0.0	819.3	0.0	0.0	0.0	0.0	0.0	819.3
2018	0.0	794.4	0.0	0.0	0.0	0.0	0.0	794.4
2019	0.0	559.2	0.0	0.0	0.0	0.0	0.0	559.2
2020	0.0	575.9	0.0	0.0	0.0	0.0	0.0	575.9
2021	0.0	594.5	0.0	0.0	0.0	0.0	0.0	594.5
2022	0.0	536.2	0.0	0.0	0.0	0.0	38.5	574.7
2023	0.0	559.1	0.0	0.0	0.0	0.0	0.0	559.1

(1) - BBWM has not yet develop a policy to account for New Yield in the Beaumont Basin.

Table 3-8
Appropriator's Production Right

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
Yucaipa Valley Water District								
2003	1,086.5	0.0	0.0	0.0	0.0	0.0	75.9	1,162.4
2004	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2005	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2006	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2007	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2008	2,173.0	255.9	0.0	0.0	0.0	0.0	0.0	2,428.9
2009	2,173.0	689.0	0.0	0.0	0.0	0.0	0.0	2,862.0
2010	2,173.0	727.5	0.0	0.0	0.0	0.0	0.0	2,900.5
2011	2,173.0	686.2	0.0	0.0	0.0	0.0	0.0	2,859.2
2012	2,173.0	725.6	0.0	0.0	0.0	0.0	0.0	2,898.6
2013	1,086.5	784.7	0.0	0.0	0.0	0.0	0.0	1,871.2
2014	0.0	789.2	0.0	0.0	0.0	0.0	409.2	1,198.5
2015	0.0	906.3	0.0	0.0	0.0	0.0	0.0	906.3
2016	0.0	907.0	0.0	0.0	0.0	0.0	0.0	907.0
2017	0.0	891.5	0.0	0.0	0.0	0.0	0.0	891.5
2018	0.0	864.4	0.1	0.0	0.0	0.0	0.0	864.5
2019	0.0	608.5	64.0	0.0	0.0	0.0	0.0	672.5
2020	0.0	626.6	194.8	0.0	0.0	0.0	586.3	1,407.7
2021	0.0	646.9	366.8	0.0	0.0	0.0	214.8	1,228.5
2022	0.0	583.4	478.3	0.0	0.0	0.0	0.0	1,061.7
2023	0.0	608.3	478.3	0.0	0.0	0.0	0.0	1,086.6

(1) - BBWM has not yet develop a policy to account for New Yield in the Beaumont Basin.

Table 3-9
Consolidation of Storage Accounts

Calendar Year	Appropriator 's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Total Additions to or Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
City of Banning - Authorized Storage Account: 80,000 ac-ft									
2003	2,514.5	2,174.2	0.0	0.0	0.0	0.0	0.0	0.0	340.3
2004	5,029.0	3,397.3	0.0	0.0	0.0	0.0	0.0	0.0	1,972.0
2005	5,029.0	1,808.6	0.0	0.0	0.0	0.0	0.0	0.0	5,192.5
2006	5,029.0	1,827.5	0.0	0.0	0.0	0.0	0.0	0.0	8,393.9
2007	6,529.0	2,772.6	0.0	0.0	0.0	0.0	0.0	0.0	12,150.3
2008	5,621.2	2,933.6	0.0	1,534.0	0.0	0.0	0.0	0.0	16,371.9
2009	6,623.7	2,095.0	0.0	2,741.2	0.0	0.0	0.0	0.0	23,641.8
2010	6,712.8	1,143.6	0.0	1,338.0	0.0	0.0	0.0	0.0	30,549.0
2011	6,617.2	1,341.7	0.0	800.0	0.0	0.0	0.0	0.0	36,624.5
2012	6,708.5	1,038.3	0.0	1,200.0	0.0	0.0	0.0	0.0	43,494.7
2013	4,330.6	2,100.7	0.0	1,200.0	0.0	0.0	0.0	0.0	46,924.7
2014	1,977.1	2,585.1	608.0	608.0	0.0	0.0	0.0	150.4	46,774.2
2015	2,097.5	1,678.3	0.0	694.0	0.0	0.0	0.0	0.0	47,887.5
2016	2,099.1	1,472.7	0.0	1,477.0	0.0	0.0	0.0	0.0	49,990.8
2017	2,063.2	1,443.5	0.0	1,350.0	0.0	0.0	0.0	0.0	51,960.6
2018	2,000.6	2,260.8	260.2	500.0	0.0	0.0	0.0	0.0	52,200.4
2019	1,871.3	2,121.3	250.0	250.0	0.0	0.0	0.0	462.9	51,737.5
2020	2,298.6	2,548.6	250.0	250.0	0.0	0.0	0.0	848.3	50,889.2
2021	3,668.1	3,668.1	0.0	0.0	0.0	0.0	0.0	2,110.9	48,778.3
2022	3,558.7	3,593.7	35.0	35.0	0.0	0.0	0.0	2,208.4	46,569.9
2023	1,407.9	1,326.9	0.0	1,000.0	0.0	0.0	0.0	0.0	47,650.9

Table 3-9
Consolidation of Storage Accounts

Calendar Year	Appropriator 's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Total Additions to or Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
Beaumont Cherry Valley Water District - Authorized Storage Account: 80,000 ac-ft									
2003	3,511.9	3,511.9	0.0	0.0	0.0	0.0	0.0	110.9	-110.9
2004	6,873.9	6,873.9	0.0	0.0	0.0	0.0	0.0	71.9	-182.8
2005	7,025.6	7,025.6	0.0	0.0	0.0	0.0	0.0	223.6	-406.4
2006	6,802.0	9,054.1	2,252.1	3,501.0	0.0	0.0	0.0	0.0	842.5
2007	8,302.0	11,383.3	3,081.3	4,501.0	0.0	0.0	0.0	0.0	2,262.2
2008	10,103.0	10,710.5	607.5	2,399.0	0.0	0.0	0.0	0.0	4,053.7
2009	10,958.8	10,133.9	0.0	2,741.2	0.0	0.0	0.0	0.0	7,619.8
2010	9,079.4	9,421.3	341.9	5,727.0	0.0	0.0	0.0	0.0	13,004.9
2011	12,450.1	9,431.3	0.0	7,979.0	0.0	0.0	0.0	0.0	24,002.8
2012	9,073.5	10,162.0	1,088.5	7,783.0	0.0	0.0	0.0	0.0	30,697.3
2013	5,857.4	11,097.4	5,240.0	7,403.0	0.0	0.0	0.0	0.0	32,860.3
2014	6,400.5	10,805.5	4,405.0	4,405.0	0.0	0.0	0.0	3,929.9	28,930.4
2015	6,199.8	8,972.8	2,773.0	2,773.0	0.0	0.0	0.0	3,362.8	25,567.6
2016	2,839.1	10,159.8	7,320.7	9,319.0	0.0	0.0	0.0	0.0	27,565.9
2017	2,790.6	11,650.7	8,860.1	13,590.0	0.0	0.0	0.0	0.0	32,295.8
2018	2,705.9	12,209.2	9,503.3	12,121.0	0.0	0.0	0.0	0.0	34,913.5
2019	1,904.9	11,140.9	9,236.0	13,645.0	0.0	0.0	0.0	0.0	39,322.5
2020	1,961.6	12,539.2	10,577.6	11,005.0	0.0	0.0	0.0	0.0	39,749.9
2021	10,141.5	12,609.5	2,468.0	2,468.0	0.0	0.0	0.0	7,668.7	32,081.2
2022	10,714.4	12,490.4	1,776.0	1,776.0	0.0	0.0	0.0	8,888.1	23,193.1
2023	1,904.3	10,213.3	8,309.0	18,000.0	0.0	0.0	0.0	0.0	32,884.1

Table 3-9
Consolidation of Storage Accounts

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Table 3-9
Consolidation of Storage Accounts

Calendar Year	Appropriator 's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Total Additions to or Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
South Mesa Water Company - Authorized Storage Account: 20,000 ac-ft									
2003	998.0	223.2	0.0	0.0	0.0	0.0	0.0	0.0	774.8
2004	1,996.0	482.5	0.0	0.0	0.0	0.0	0.0	0.0	2,288.3
2005	1,996.0	663.2	0.0	0.0	0.0	0.0	0.0	0.0	3,621.1
2006	1,996.0	616.0	0.0	0.0	0.0	0.0	0.0	0.0	5,001.1
2007	665.8	665.8	0.0	0.0	0.0	0.0	0.0	1,669.8	3,331.3
2008	470.9	470.9	0.0	0.0	0.0	0.0	0.0	739.7	2,591.6
2009	629.2	382.2	0.0	0.0	0.0	0.0	0.0	0.0	2,838.6
2010	2,664.6	405.0	0.0	0.0	0.0	0.0	0.0	0.0	5,098.2
2011	419.9	419.9	0.0	0.0	0.0	0.0	0.0	1,293.3	3,805.0
2012	2,662.9	448.5	0.0	0.0	0.0	0.0	0.0	0.0	6,019.4
2013	1,719.1	308.4	0.0	0.0	0.0	0.0	0.0	0.0	7,430.2
2014	725.3	473.7	0.0	0.0	0.0	0.0	0.0	0.0	7,681.7
2015	832.9	317.2	0.0	0.0	0.0	0.0	0.0	0.0	8,197.5
2016	833.5	352.6	0.0	0.0	0.0	0.0	0.0	0.0	8,678.3
2017	819.3	368.1	0.0	0.0	0.0	0.0	0.0	0.0	9,129.5
2018	794.4	364.9	0.0	0.0	0.0	0.0	0.0	0.0	9,559.0
2019	559.2	330.7	0.0	0.0	0.0	0.0	0.0	0.0	9,787.5
2020	575.9	229.2	0.0	0.0	0.0	0.0	0.0	0.0	10,134.3
2021	594.5	466.0	0.0	0.0	0.0	0.0	0.0	0.0	10,262.7
2022	574.7	574.7	0.0	0.0	0.0	0.0	0.0	38.5	10,224.2
2023	559.1	277.3	0.0	0.0	0.0	0.0	0.0	0.0	10,506.0

Table 3-9
Consolidation of Storage Accounts

Calendar Year	Appropriator 's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Total Additions to or Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
Yucaipa Valley Water District - Authorized Storage Account: 50,000 ac-ft									
2003	1,162.4	1,162.4	0.0	0.0	0.0	0.0	0.0	75.9	-75.9
2004	2,173.0	1,833.7	0.0	0.0	0.0	0.0	0.0	0.0	263.4
2005	2,173.0	1,281.3	0.0	0.0	0.0	0.0	0.0	0.0	1,155.1
2006	2,173.0	2,027.3	0.0	0.0	0.0	0.0	0.0	0.0	1,300.8
2007	2,173.0	1,682.9	0.0	0.0	0.0	0.0	0.0	0.0	1,790.9
2008	2,428.9	572.0	0.0	0.0	0.0	0.0	0.0	0.0	3,647.8
2009	2,862.0	504.4	0.0	0.0	0.0	0.0	0.0	0.0	6,005.4
2010	2,900.5	672.4	0.0	0.0	0.0	0.0	0.0	0.0	8,233.5
2011	2,859.2	534.1	0.0	0.0	0.0	0.0	0.0	0.0	10,558.6
2012	2,898.6	700.1	0.0	0.0	0.0	0.0	0.0	0.0	12,757.2
2013	1,871.2	1,030.8	0.0	0.0	0.0	0.0	0.0	0.0	13,597.6
2014	1,198.5	1,198.5	0.0	0.0	0.0	0.0	0.0	409.2	13,188.4
2015	906.3	119.2	0.0	0.0	0.0	0.0	0.0	0.0	13,975.5
2016	907.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	14,877.9
2017	891.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	15,769.2
2018	864.5	191.2	0.0	0.0	0.0	0.0	0.0	0.0	16,442.5
2019	672.5	528.6	0.0	0.0	0.0	0.0	0.0	0.0	16,586.4
2020	1,407.7	1,407.7	0.0	0.0	0.0	0.0	0.0	586.3	16,000.1
2021	1,228.5	1,228.5	0.0	0.0	0.0	0.0	0.0	214.8	15,785.3
2022	1,061.7	686.5	0.0	0.0	0.0	0.0	0.0	0.0	16,160.4
2023	1,086.6	891.7	0.0	500.0	0.0	0.0	0.0	0.0	16,855.3

Table 3-9
Consolidation of Storage Accounts

Calendar Year	Appropriator 's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Total Additions to or Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
Morongo Band of Mission Indians - Authorized Storage Account: 20,000 ac-ft									
2013		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2015		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2021		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
San Gorgonio Pass Water Agency - Authorized Storage Account: 10,000 ac-ft									
2018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	257.8	0.0	0.0	0.0	257.8	257.8
2020	0.0	0.0	0.0	214.0	0.0	0.0	0.0	214.0	471.8
2021	0.0	0.0	0.0	36.0	0.0	0.0	0.0	-471.8	0.0
2022	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6
2023	0.0	0.0	0.0	893.0	0.0	0.0	0.0	0.0	893.6

Table 3-9
Consolidation of Storage Accounts

Calendar Year	Appropriator 's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Total Additions to or Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
Totals - All Agencies with Storage Accounts									
2003	8,186.8	7,071.7	0.0	0.0	0.0	0.0	0.0	186.8	928.3
2004	16,071.9	12,587.4	0.0	0.0	0.0	0.0	0.0	71.9	4,340.9
2005	16,223.6	10,778.6	0.0	0.0	0.0	0.0	0.0	223.6	9,562.3
2006	16,000.0	13,524.9	2,252.1	3,501.0	0.0	0.0	0.0	0.0	15,538.3
2007	17,669.8	16,504.6	3,081.3	4,501.0	0.0	0.0	0.0	1,669.8	19,534.8
2008	18,623.9	14,687.0	607.5	3,933.0	0.0	0.0	0.0	739.7	26,665.0
2009	21,073.7	13,115.6	0.0	5,482.4	0.0	0.0	0.0	0.0	40,105.6
2010	21,357.4	11,642.3	341.9	7,065.0	0.0	0.0	0.0	0.0	56,885.6
2011	22,346.5	11,727.0	0.0	8,779.0	0.0	0.0	0.0	1,293.3	74,990.9
2012	21,343.5	12,348.9	1,088.5	8,983.0	0.0	0.0	0.0	0.0	92,968.6
2013	13,778.4	14,537.2	5,240.0	8,603.0	0.0	0.0	0.0	0.0	100,812.7
2014	10,301.3	15,062.8	5,013.0	5,013.0	0.0	0.0	0.0	4,489.5	96,574.8
2015	10,036.4	11,087.4	2,773.0	3,467.0	0.0	0.0	0.0	3,362.8	95,628.0
2016	6,678.6	11,989.7	7,320.7	10,796.0	0.0	0.0	0.0	0.0	101,112.9
2017	6,564.6	13,462.4	8,860.1	14,940.0	0.0	0.0	0.0	0.0	109,155.0
2018	6,365.5	15,026.1	9,763.4	12,621.0	0.0	0.0	0.0	0.0	113,115.4
2019	5,007.9	14,121.5	9,486.0	14,152.8	0.0	0.0	0.0	720.7	117,691.8
2020	6,243.8	16,724.7	10,827.6	11,469.0	0.0	0.0	0.0	1,648.6	117,245.2
2021	15,632.6	17,972.1	2,468.0	2,504.0	0.0	0.0	0.0	9,522.6	106,907.5
2022	15,909.4	17,345.3	1,811.0	1,811.6	0.0	0.0	0.0	11,135.1	96,148.2
2023	4,957.8	12,709.1	8,309.0	20,393.0	0.0	0.0	0.0	0.0	108,789.9

Table 3-10
Annual Supplemental Recharge to the Beaumont Basin - Water Year 2023

Year	Supplemental Recharge (ac-ft)				
	Banning	BCVWD	YVWD	SGPWA	Total
Oct-22	-	308.0	-	-	308.0
Nov-22	35.0	1,086.0	-	-	1,121.0
Dec-22	-	-	-	-	-
Jan-23	-	-	-	-	-
Feb-23	-	1,339.0	-	-	1,339.0
Mar-23	-	2,539.0	-	-	2,539.0
Apr-23	-	2,529.0	-	-	2,529.0
May-23	-	1,454.0	-	-	1,454.0
Jun-23	-	1,984.0	-	-	1,984.0
Jul-23	-	1,067.0	-	-	1,067.0
Aug-23	750.0	1,058.0	500.0	-	2,308.0
Sep-23	250.0	1,006.0	-	-	1,256.0
Totals	1,035.0	14,370.0	500.0	-	15,905.0

Section 4

Water Quality Conditions

The purpose of this section is to document the water quality conditions in the Beaumont Basin during the 2019-2023 reporting period. TDS and nitrate concentrations in the basin are compared against groundwater quality objectives for anti-degradation and maximum benefit as established by the Regional Board for TDS and Nitrate (as N) in the Beaumont Management Zone (BMZ). In addition, water quality concentrations for a number of compounds are compared against Federal and State Drinking Water Standards. Figure 4-1 depicts all the wells that have groundwater quality data for the reporting period.

There are two main sources of data used in the assessment of water quality conditions in the Beaumont Basin and near surroundings: namely, the California Department of Public Health database, as part of the Groundwater Ambient Monitoring and Assessment (GAMA) program, and the Beaumont Management Zone Maximum Benefit Monitoring Program. The GAMA database obtained from the State Water Resources Control Board focuses on drinking water sources; it contains 4,396 water quality results for the 2019-2023 reporting period. Water quality from the BMZ Maximum Benefit Monitoring Program was also available for the same period.

4.1 Comparison with Management Zone Objectives

Groundwater quality objectives for anti-degradation and maximum benefit have been established by the Regional Board for TDS and Nitrate (as N) in the BMZ, which encompasses portions of the Beaumont Basin, the Singleton and South Beaumont basins, and limited portions of Edgar Canyon above the Banning Fault as illustrated in Figure 4-1. The anti-degradation objectives are based on the historic ambient TDS and Nitrate (as N) concentration of 230 mg/L and 1.5 mg/L respectively.

Maximum benefit objectives were adopted by the Regional Board in 2004 at the request of STWMA and the City of Beaumont to allow for recharge of imported water and the reuse of recycled water. The maximum benefit objectives, set to 330 mg/L for TDS and 5.0 mg/L for Nitrate (as N), are relatively low compared to other basins and are protective of the beneficial uses of the Basin groundwater. According to the Basin Plan, salt mitigation will be required once the ambient TDS and Nitrate (as N) concentration exceeds the BMZ maximum benefit objectives.

4.1.1 Total Dissolved Solids

Figure 4-2 shows the maximum TDS concentrations for 59 wells measured within and in the vicinity of the Beaumont Basin. Concentrations used for most wells were based on the 2019-2023 reporting period; however, historical concentrations are used for a limited number of wells that did not have water quality information during this period. A total of 31 wells are located inside the Basin, 17 in the Singleton Basin / Edgar Canyon and the remaining 11 in the South Beaumont Basin.

Maximum TDS concentrations for wells owned by Appropriators within the basin ranged from 170 to 350 mg/L and averaged 228 mg/L; this average of maximum values at each well is 32 mg/L lower than the average maximum TDS concentration reported in the 2008-11 Engineering Report of 255 mg/L. Of the 12 overlying wells, maximum TDS concentrations ranged from 100 to 340 mg/L and averaged 244 mg/L, 16 mg/L higher than the average of maximum values for appropriator's wells. The average TDS for all 31 groundwater wells in the Beaumont Basin for the reporting period was 231 mg/L while the average of maximum concentration was 10 mg/L higher.

In the Singleton Basin / Edgar Canyon area, maximum TDS concentrations ranged from 210 to 400 mg/L and average 270 mg/L. The average TDS concentration for all wells was 264 mg/L, 33 mg/L higher than the average concentration in the Beaumont Basin during the reporting period.

In the South Beaumont Basin, maximum TDS concentrations ranged from 270 to 870 mg/L and averaged 495 mg/L. Average concentration for all 11 groundwater wells was 428 mg/L.

Average and maximum TDS concentrations for all sampled wells within the basin and surroundings are as follows:

Well Classification	Count	Samples	Average Concentration	Avg Max Concentration
Beaumont Groundwater Basin				
Appropriators	15	21	223	228
Overliers	12	43	228	244
Others	4	20	264	278
Total	31	84	231	241
Singleton Basin / Edgar Canyon Area				
All Wells	17	28	264	270
South Beaumont Basin				
All Wells	11	61	428	495

Of the 27 wells owned by Appropriators and overlies, 15 wells had a maximum concentration at or below the anti-degradation objective of 230 mg/L, 10 wells were between the anti-degradation and maximum benefit objective of 330 mg/L, and two (BCVWD 16 and SMHOA 2) exceeded the maximum benefit objective for the BMZ at 330 mg/L. None of the production wells samples exceeded the secondary federal or state drinking water standard for TDS (500 mg/L). BCVWD wells along Edgar Canyon were not included in the analysis of domestic wells.

In the Singleton Basin / Edgar Canyon area, there were three wells with a maximum TDS concentration at or below the anti-degradation objective, 13 wells had maximum TDS concentrations between the anti-degradation and maximum benefit objective, and the remaining well (CVMWC No. 1) exceeded the maximum objective, no wells exceeded the secondary MCL.

In the South Beaumont Basin, none of the wells had a maximum TDS concentration below the anti-degradation objective, three wells were below the maximum objective, and the remaining eight wells exceeded this objective. Most of the wells with the highest TDS concentrations are located in the South Beaumont Basin.

4.1.2 Nitrate as N

Figure 4-3 shows the maximum Nitrate concentrations for 59 wells measured within and in the vicinity of the Beaumont Basin wells during the 2019-2023 reporting period. A total of 31 wells are located inside the basin, 17 wells in the Singleton Basin / Edgar Canyon and the remaining 11 in the South Beaumont Basin.

Maximum Nitrate concentrations for wells owned by Appropriators within the basin ranged from 0.98 to 7.00 mg/L and averaged 2.49 mg/L. Of the 12 overlying wells, maximum Nitrate concentrations ranged from 0.25 to 6.90 mg/L and averaged 3.26 mg/L, 0.77 mg/L higher than the average of maximum values for appropriator's wells. The average maximum Nitrate concentration for all 31 groundwater wells in the Beaumont Basin was 2.62 mg/L.

In the Singleton Basin / Edgar Canyon area, maximum Nitrate concentrations ranged from 0.60 to 14.0 mg/L and averaged 3.27 mg/L. Average concentration for all wells was 2.84 mg/L.

In the South Beaumont Basin, maximum Nitrate concentrations ranged from 3.1 to 22.0 mg/L and averaged 10.05 mg/L. Average concentration for all wells in this basin was 9.32 mg/L.

Average and maximum Nitrate concentrations for all sampled wells within the Beaumont Basin area are as follows:

Well Classification	No. of Wells	Samples	Average Concentration	Avg Max Concentration
Beaumont Groundwater Basin				
Appropriators	15	156	2.02	2.49
Overliers	12	119	2.74	3.26
Other	4	20	1.08	1.20
Total	31	295	2.18	2.62
Singleton Basin / Edgar Canyon Area				
All Wells	17	56	2.84	3.27

South Beaumont Basin

All Wells	11	58	9.32	10.05
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Of the 27 wells owned by Appropriators and overlayers, seven wells had a maximum concentration below the anti-degradation objective of 1.5 mg/L, 15 wells were between this objective and maximum benefit objective of 5.0 mg/L; five wells exceeded the maximum benefit objective for the BMZ. None of the production wells samples exceeded the primary federal or state drinking water standard for Nitrate of 10 mg/L.

In the Singleton Basin / Edgar Canyon area, four wells had a maximum concentration below the anti-degradation objective, another ten wells had concentrations between the anti-degradation and maximum objective while three wells exceeded the maximum benefit objective of 5.0 mg/L. One well exceeded drinking water standards.

In the South Beaumont Basin, only two wells had a maximum concentration below the maximum objective while the remaining nine exceed it with five of these wells also exceeding drinking water standards. There were no wells with nitrate concentrations below the anti-degradation limit.

4.1.3 Nitrate Studies in the Beaumont Management Zone

Rising nitrate concentrations observed in 2005 along the northern portion of the Basin prompted STWMA to launch an investigation in 2006 to determine the potential impact on groundwater quality from on-site waste disposal systems (OSWDS) commonly used in the Cherry Valley Community of Interest (CVCOI). STWMA retained the services of Wildermuth Environmental Inc. (WEI) to conduct this study.

The results of this study were disputed by the Beaumont Board of Supervisors' Groundwater Quality Evaluation Committee (GQEC) as they identified potential shortcomings in sampling design and project execution. The GQEC recommended that an independent assessment be conducted. They recommended that the second study should expand the study area, consider reasonable build-out projections and other sources of groundwater contamination. This independent study was conducted by scientist at the University of California, Riverside and funded as a Supplemental Environmental Project by the State Water Resources Control Board. The results of this study were published in early 2012. A brief summary and their findings are presented below for information purposes only.

4.1.3.1 Summary of Wildermuth Environmental Inc. Study

This study is titled: "*Water Quality Impacts from On-Site Waste Disposal Systems in the Cherry Valley Community of Interest*" (WEI, 2007). The bases for this study include the following:

- ✓ A review of scientific literature,
- ✓ A field study to estimate nitrogen concentrations in soil water below selected OSWDS,

- ✓ A tracer study of nitrogen isotope and pharmaceutical and personal care products (PPCP) to confirm the presence of effluent from OSWDS,
- ✓ An estimation of current and future discharge from OSWDS to groundwater,
- ✓ A planning-level evaluation of basin impacts using the groundwater flow and nitrate transport model, and
- ✓ A review of the threshold used in California to compel sewerage when OSWDS contaminate or threaten to contaminate groundwater

The results of the investigation are summarized as follows:

- ✓ Parcel density in the CVCOI violates the minimum half-acre parcel size requirement of the Regional Board to be on a septic system.
- ✓ Water produced from high nitrate wells in the area has a nitrogen isotopic signature and contain PPCPs consistent with discharge from OSWDS.
- ✓ Present contribution of OSWDS discharges is estimated at 665 ac-ft/yr.; this represents about five percent of total recharge to the BMZ. At ultimate buildout, there will be between 4,900 to 8,800 OSWDS in the CVCOI. Discharge contribution from these OSWDS is estimated between 1,700 and 3,100 ac-ft/yr. representing 13 to 21 percent of total recharge to the BMZ.
- ✓ At 4,900 lots, the contributions from OSWDS will significantly impact water quality to the point that well head treatment will be required at certain well locations in order to meet drinking water standards. At 8,800 lots, the contributions from OSWDS will rendered the entire BMZ non-potable.
- ✓ Left unmitigated, OSWDS discharges will contribute enough nitrate to exceed the Basin Plan objectives for the BMZ.
- ✓ There is sufficient evidence of groundwater contamination by OSWDS to warrant the Regional Board to issue a prohibition on new OSWDS in the CVCOI.

According to WEI, as a result of this investigation, the County of Riverside issued a moratorium, followed by a permanent prohibition on the installation of septic systems in Cherry Valley unless the septic system is designed to remove at least 50 percent of the nitrogen in the wastewater. In 2009, the County passed a new ordinance that removed the prohibition on conventional OSWDS. WEI further indicates that the Regional Board initiated a process in 2009 that may lead to amending the Basin Plan prohibiting conventional OSWDS and regulating the discharges to meet antidegradation objectives.

4.1.3.2 Summary of University of California, Riverside Study

This study is titled: *“Water Quality Assessment of the Beaumont Management Zone: Identifying Sources of Groundwater Contamination Using Chemical and Isotopic Tracers” (UCR, 2012).*

The study divides the BMZ into four distinct zones; their location is depicted in Figure 2 of the UCR report (not included here). A brief description of the zones is as follows:

Zone 1 – Region Influenced by Wastewater Treatment Plant Effluent. This zone occupies the southernmost area of the BMZ. Water quality in this zone is influenced by effluent from the City of Beaumont wastewater treatment plant.

Zone 2 – Wildland and Low-Density Septic Disposal Region. This zone is defined as the area uphill of Edgar Canyon to the north of Cherry Valley. Water quality in this area had low to moderate concentrations of TDS and nitrate.

Zone 3 – Urban Region with On-site Septic Disposal Systems. This zone overlies the Cherry Valley area including the area around the Noble Creek and Little San Gorgonio Spreading Ponds. Human waste from homes and business in this zone is primarily disposed of in on-site waste disposal systems.

Zone 4 – Urban Region with Consolidate Sewer System. Zone 4 comprises those portions of the City of Beaumont utilizing a municipal wastewater system.

The UCR report attempted to answer a series of questions; the questions and a summary of their response is provided below. It is our understanding that this report was received and filed with no further action considered at the time of completion.

1.- Can different groundwater regions within the BMZ be defined using isotope, PPCP, and general chemical parameters?

According to the study,

- ✓ Zone 1 was characterized by relatively high levels of PPCPs and it has the highest likelihood for nitrate contamination from human waste.
- ✓ Zone 2 had detectable levels of some PPCPs. Septic contributions to groundwater are relatively minor.
- ✓ Zone 3 had several wells with clear signs of contamination by septic systems. Groundwater in the central portion of Cherry Valley appeared to be more strongly affected by septic systems than on the periphery of Cherry Valley.
- ✓ Zone 4 shows the fewest signs of human waste as most homes are served by consolidated sewer systems.

1A.- Do areas with septic systems have different chemistry than areas with sewers?

The report indicates that there are statistically significant differences between groundwater in areas with septic systems and groundwater where sewer service is available. The concentrations of PPCPs, TDS, Nitrate-N, the sum of base cations, Boron, and Isotopes of Nitrate were all significantly higher in areas with septic systems than in areas with sewer service.

1B.- Do areas where groundwater recharge with water from the State Water Project or wastewater treatment plant effluent have different chemistry from other areas?

Strong evidence of nitrate deriving from human waste was detected in Zone 1 as well as strong biological attenuation of nitrate transported in groundwater.

2.- What sources contribute nitrate to groundwater of the BMZ?

The report indicates that in Zone 1 the isotopes of nitrate values overlap those expected for human or animal waste. Similarly, in Zone 3 the isotopic composition of water suggests a high probability of inputs of nitrate from human or animal waste. The presence of PPCPs in most samples indicates the possibility that septic systems are contaminating groundwater within the central part of Cherry Valley.

3.- How much nitrate from human waste is making its way into the groundwater of the BMZ?

The report documents the following findings:

- ✓ Mixing models suggest that between 18 to 30 percent of the nitrate in central Cherry Valley groundwater is derived from septic systems.
- ✓ If septic systems were completely phased out, nitrate concentrations in central Cherry Valley groundwater could decline by 30 percent once a steady state condition is achieved. The time to reach a steady state is anticipated to be shorter than in other portions of the BMZ due to relatively high rates of recharge in Zone 3.
- ✓ Mass balance calculations show that nitrate-nitrogen inputs from septic systems is one of the largest inputs of nitrogen to groundwater in the BMZ.
- ✓ If the waste from septic tanks were to be conveyed to the City of Beaumont WWTP, about 30 percent of the current input of nitrate from human waste to groundwater would be removed.

4.2 Comparison with Federal and State Drinking Water Standards

The California Department of Health Services (CDPH) maintains an active water quality database of all public and private drinking water wells throughout the state. This database was recently incorporated into the Groundwater Ambient Monitoring and Assessment (GAMA) program. The GAMA program is California's comprehensive groundwater quality monitoring program that was created by the State Water Resources Control Board in 2000. The program was later expanded by Assembly Bill 559, also known as the Groundwater Quality Monitoring Act of 2001.

Chemical information for drinking water sources is grouped in the GAMA program in various databases depending on the year(s) of information desired. This annual report documents water quality conditions for the 2018-22 period. To gather pertinent information, the 2015-19 and 2020-Present databases in the State of California Water Resources Control Board website were accessed. Accessing the water quality information in the GAMA program has been significantly enhanced compared to previous databases run through the CDPH website; it is better organized and easier to access and compile. The 2020 and earlier annual reports documented water quality information using databases from the CDPH website.

The objective of this water quality analysis was to determine whether any of the potable wells in the Beaumont Basin exceeded the Primary or Secondary Federal and State standards or

the Notification Levels (NL) set by the state. Federal standards are set by the United States Environmental Protection Agency (USEPA). These standards determine the maximum concentration allowable for a specific contaminant in drinking water. States have the option to adopt more stringent standards or develop standards regulations for contaminants that the federal government has not acted on. In California the State Water Resources Control Board's Division of Drinking Water is responsible for regulated public water systems that provide drinking water across the State and for establishing drinking water standards for contaminants that threaten our water supply.

Primary standards at the federal and state level are enforceable criteria that have been established to protect the public against consumption of drinking water contaminants that present a risk to human health. Secondary standards are not enforceable standards; they have been established for aesthetic qualities of water, such as taste, color, and others. Contaminants with secondary MCL are not considered to present a risk to human health at the established maximum level. Notification levels are not enforceable standards; however, they require that municipal water suppliers notify the public if the NL for a specific chemical has been exceeded.

A total of 5,301 water quality results were extracted from the GAMA database for all domestic production wells in the Beaumont Basin. Results were obtained for 31 minerals and inorganic chemicals and over 108 organic compounds sampled between 2018 and 2022. The results of the analysis indicate that not a single well exceeded the primary Federal or State MCL for any of the analytes tested.

Appendix G contains summary statistics of the analytical results for the 2019-2023 period for selected chemicals that have a federal or state drinking water standard as reported in the GAMA database.

4.2.1 Nitrate (as NO₃) and Total Dissolved Solids (TDS)

A total of 235 samples were collected and analyzed for Nitrate; 38 of these samples were also analyzed for TDS. The current primary MCL for Nitrate (as NO₃) is 45 ppm (mg/L); the secondary MCL for TDS is 500 mg/L. Table 4-1 presents a summary of Nitrate and TDS concentration, including the number of samples taken, average and maximum concentrations recorded, for all 22 domestic wells in the Beaumont Basin. This table indicates that none of the domestic wells in the Beaumont Basin are near the MCL or the notification level of 80 percent MCL, 36 mg/L for Nitrate and 400 mg/L for TDS. Highest concentrations during the reporting period were recorded at BCVWD Well No. 16 with 31.5 mg/L of Nitrates and 350 mg/L of dissolved solids.

4.2.2 Trace Metals

As indicated earlier, not a single domestic well exceeded the primary federal and state standards during the reporting period. This represents a significant improvement over previous reporting periods when several wells exceeded the MCL for trace metals as in the 2004-2008 initial reporting five-year period. Trace metals are briefly discussed here and compared to previous reporting periods.

**Table 4-1
Nitrate (NO₃) and TDS Summary for Domestic Wells (2019-23)**

Agency/ Well No.	Nitrate as NO ₃			Total Dissolved Solids (TDS)		
	Count	Avg	Max	Count	Ave	Max
City of Banning						
Well C-2A	8	7.7	9.0	1	220	220
Well C-3	5	7.3	9.0	1	170	170
Well C-4	8	4.6	6.8	2	190	200
Well M-3	7	9.5	10.4	1	260	260
Beaumont Cherry Valley Water District						
Well 03	4	3.7	4.4	2	185	190
Well 16	40	24.7	31.5	2	340	350
Well 21	37	13.2	14.9	2	250	260
Well 22	5	5.5	6.8	2	210	220
Well 23	5	8.6	9.9	1	270	270
Well 24	5	7.3	8.6	2	200	200
Well 25	5	5.1	6.3	1	220	220
Well 26	5	3.7	4.5			
Well 29	5	10.6	12.6	1	210	210
South Mesa Water Company						
Well 4	7	15.0	19.8	2	200	220
Yucaipa Valley Water District						
Well 48	10	10.2	14.0	1	200	200
Overlying Users						
Sharondale 1	20	20.7	31.1	1	330	330
Sharondale 2	20	24.7	26.6	1	340	340
Plantation 1	5	9.2	9.9	2	270	280
RCMHP 1	12	21.8	24.8	1	260	260
RCMHP 2	19	22.5	28.8	2	260	270
Tukwet A	14	7.0	8.1	11	179	230
Tukwet D	15	9.9	11.7	11	203	250
Oak Valley 1	1	6.3	6.3	1	190	190
Oak Valley 2	3	10.5	11.3	3	173	210
Oak V. Office	4	4.8	7.2	4	193	220
S. Ranch 7	5	9.1	9.5	5	242	250

Aluminum. There were 31 water samples taken during the reporting period and tested for aluminum. Aluminum concentration at all wells was below the reporting level of 50 ug/L and significantly below the secondary MCL of 200 ug/L. Banning M-3 had a maximum concentration of 57 ug/L in 2018. Aluminum above the MCL can add color to water. Compared to the FY 2004-08 initial reporting period, one well exceeded the MCL at that time.

Arsenic. The current MCL for Arsenic has been set at 10 ug/L. There were 31 water samples collected and tested for arsenic during the reporting period with most wells reporting under the reporting level of 2.0 ug/L. There were two wells with arsenic concentration above the reporting level with the highest arsenic concentration was observed at Tukwet Well A at 6.5 ug/L. Arsenic concentration at SMWC's Well No. 4 was 4.4 ug/L. The rise in arsenic concentration at Tukwet's A from 3.7 ug/L in June 2017 to 6.5 ug/L in August 2020 is relatively a new event. Arsenic at SMWC's 4 has increased from 4.2 ug/L in 2009, to 4.6 ug/L in 2012, to the highest value of 5.2 ug/L in April 2013. Samples taken at this well (SMWC's 4) in April 2019 indicated a concentration of 3.8 ug/L, lower than previous samplings; however, the latest test, taken in April of 2022, indicated a concentration of 4.4 ug/L, closer to the range of historical readings. YVWD reported a concentration of 2.5 ug/L in July 2017 at Well No. 48; however, the latest analysis (Jul 2020) below the reporting level. Based on the latest values reported, arsenic continues to be a non-issue in the Beaumont basin.

Iron. A total of 31 water samples were taken during the reporting period and tested for iron. In 29 of these samples, iron concentration was below the reporting level of 100 ug/L, which is significantly below the current secondary MCL of 300 ug/L. However, in August 2016, BCVWD Well No. 3 showed a concentration of 450 ug/L, exceeding the secondary MCL. Iron concentration at this well was below 100 ug/L in December 2020, increasing slightly to 110 ug/L in the latest sample taken (Dec 2023). City of Banning Well M3 had the highest concentration of iron during the reporting period at 140 ug/L, well below the current secondary MCL. Iron at a concentration above the MCL can impact color, odor, and taste in water. Five wells exceeded the secondary MCL during the FY 2004-08 reporting period.

Lead. There were 31 water samples collected and tested for lead during the reporting period. Lead concentrations were all below the reporting level of 0.005 mg/L (5 ppb), which is well below the current primary MCL of 0.015 mg/L (15 ppb). Slightly higher concentrations were reported before 2014 at BCVWD Well No. 25 (0.0065 mg/L) and at Rancho Calimesa Mobile Home Park (RCMHP) Well No. 1 (0.0058 mg/L). Lead concentration at these two wells was below the reporting level from the latest sample available. One well exceeded the MCL during the FY 2004-08 reporting period.

Manganese. There were 31 water samples taken during the reporting period and tested for Manganese. Manganese concentration at all wells was below the notification level of 20 ug/L, significantly below the secondary MCL of 50 ug/L. A concentration of 20ug/L (Dec 2019) was mistakenly reported in previous annual reports at BCVWD Well No. 16; actual concentration was below 20ug/L. Manganese can significantly impact color and taste in water at concentrations above the MCL. One monitoring well exceeded the secondary MCL during the FY 2004-08 reporting period.

Total Chromium. A total of 31 water samples were taken during the reporting period and tested for total chromium. The highest reported concentrations of total chromium during the reporting period were observed in March 2020 at Banning C-2A and Banning C-04, both at 16 ug/L. A concentration of 16 ug/L was also reported at BCVWD 26 in December 2018. These values are significantly below the current state primary MCL of 50 ug/L. One well exceeded the state primary MCL during the FY 2004-08 reporting period.

Vanadium. Three water samples were tested for vanadium during the reporting period from SMWC's Well 4 and YVWD No. 48. Vanadium at SMWC Well 4 has been consistently above the state Notification Level of 50 ug/L; latest test indicates a concentration of 93 ug/L (April 2022). Vanadium concentration at YVWD No. 48 was 25 ug/L in 2014, increasing to 90 ug/L in the summer of 2017. Latest concentration was down to 22 ug/L (Jul 2020).

Copper. There were 31 water samples collected and tested for copper during the reporting period. None of the wells tested exceeded the detection limit of 50 ug/L. This concentration is significantly below the state secondary MCL of 1,000 ug/L. This is consistent with previous reporting periods.

Zinc. There were 31 water samples collected and tested for zinc during the reporting period. Zinc concentrations in all wells were below the reporting limit of 50 ug/L (ppb), which is significantly lower than the current secondary MCL of 5.0 mg/l (ppm).

4.2.3 Organic Compounds

There were over 3,000 lab results for 158 organic compounds during the reporting period. Concentrations of these compounds in most cases were below the detection limit for purpose of reporting or just above it. Compounds of special concern include the following:

- ✓ TCE – Trichloroethylene (TCE) – 31 samples collected all reported below the reporting level of 0.5 ug/L. Current MCL is 5 ug/L.
- ✓ Tetrachloroethylene (PCE) - 31 samples collected all reported below the reporting level of 0.5 ug/L. Current MCL is 5 ug/L.
- ✓ Dibromo-chloropropane (DBCP) - 34 samples collected with most below the reporting level of detection limit of 0.01 ug/L. Four samples were reported above the reporting level at BCVWD 23; the highest concentration was reported at 0.048 ug/L in June 2019 while the latest concentration was 0.028 ug/L in December 2022. These concentrations are significantly below the current MCL of 0.2 ug/L.

4.2.4 pH

There are two secondary standards for pH, a lower limit of 6.5 and an upper limit of 8.5. There were two wells exceeding the upper MCL for pH during the reporting period, SMWC 4 at 9.0 (April 2019) and Tukwet A at 8.8 (Aug 2020). YVWD 48, previously reported at 8.7 (Jul 2017) is now below the upper limit at 8.1 (Jul 2020). In addition, there are a number of wells with pH in the 8.0 to 8.4 range including SMHOA 1 and 2 at 8.0, BCVWD No. 3, 21, 22, 25, and 29 at

8.1; BCVWD 16 and 24 and Banning C2A at 8.2. The lowest pH was reported from Plantation No. 1 at 7.5 (Mar 2020). Four wells in the basin exceeded the upper limit for pH during the FY 2004-08 reporting period.

4.2.5 Turbidity

Turbidity is a measure of the cloudiness of water and is used to indicate water quality and filtration effectiveness. Previous annual reports reported that all production wells in the Basin tested for turbidity none exceeded the primary federal and state MCL of 5 NTU. During the 2019-2023 reporting period, most wells had turbidity levels below 0.5 NTU. BCVWD 3's turbidity was reported at 1.3 NTU in December 2023 and RCMHP 2 at 0.7 NTU (April 2019).

4.3 Historical TDS Concentrations for Selected Wells in the Beaumont, Singleton, and South Beaumont Basins

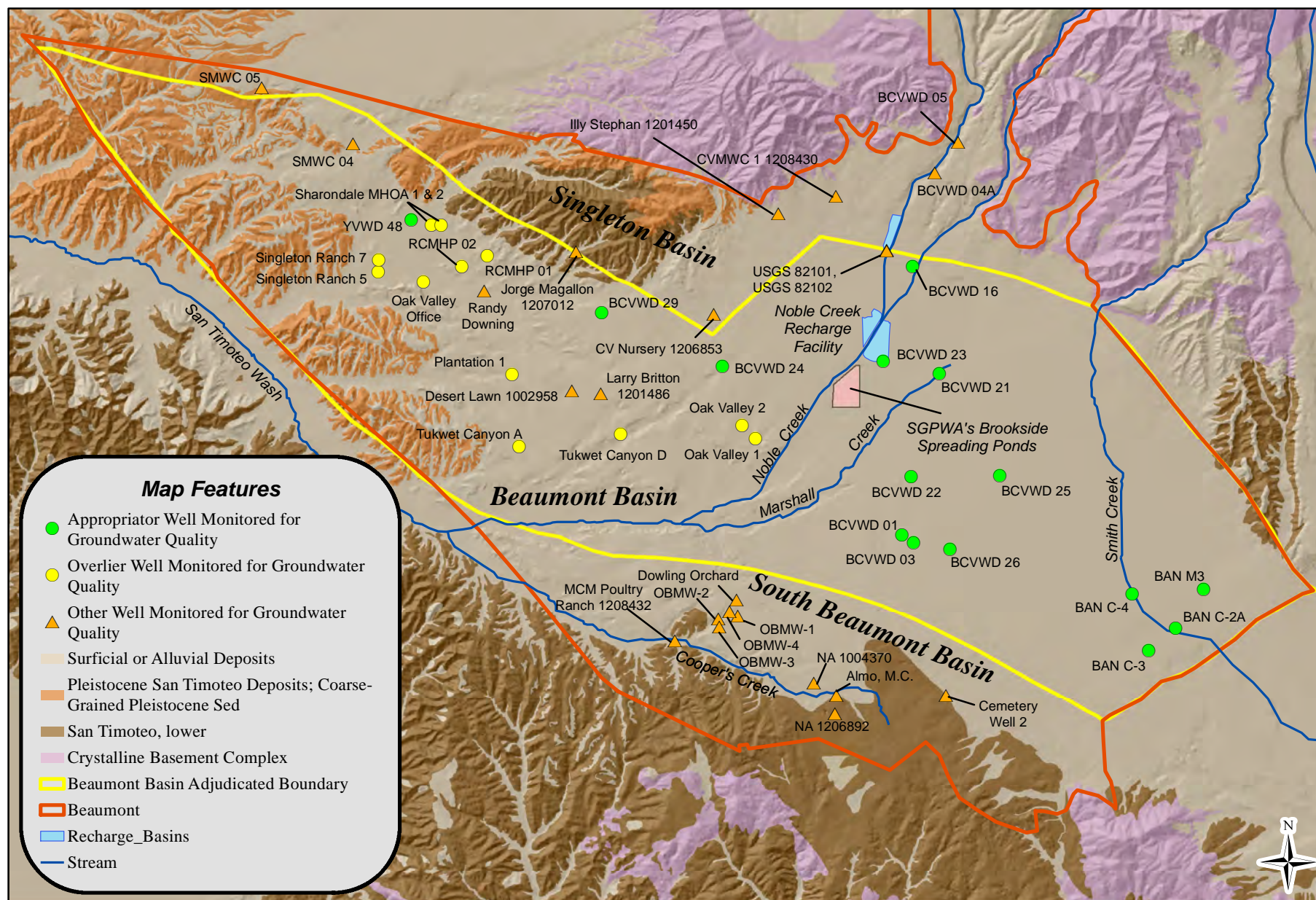
Historical water quality records since 1974 from The California Department of Health Services GAMA database and water quality collected as part of the Beaumont Management Zone Maximum Benefit Monitoring Program were combined to develop historical TDS concentrations. The following figures illustrate historical TDS for selected wells around the basin.

- ✓ Figure 4-4 – Noble Creek Area
- ✓ Figure 4-5 – East of Marshall Creek
- ✓ Figure 4-6 – Banning Area
- ✓ Figure 4-7 – West of Noble Creek
- ✓ Figure 4-8 – Northwest Area
- ✓ Figure 4-9 – Singleton Basin
- ✓ Figure 4-10 – South Beaumont Basin

4.4 Historical Nitrate (as N) Concentrations for Selected Wells in the Beaumont, Singleton, and South Beaumont Basins

Similarly, the figures below illustrate historical nitrate (as N) concentrations for selected wells around the basin.

- ✓ Figure 4-11 – Noble Creek Area
- ✓ Figure 4-12 – East of Marshall Creek
- ✓ Figure 4-13 – Banning Area
- ✓ Figure 4-14 – West of Noble Creek
- ✓ Figure 4-15 – Northwest Area
- ✓ Figure 4-16 – Singleton Basin
- ✓ Figure 4-17 – South Beaumont Basin



Alda, Inc. in association with

Thomas Harder & Co.
Groundwater Consulting

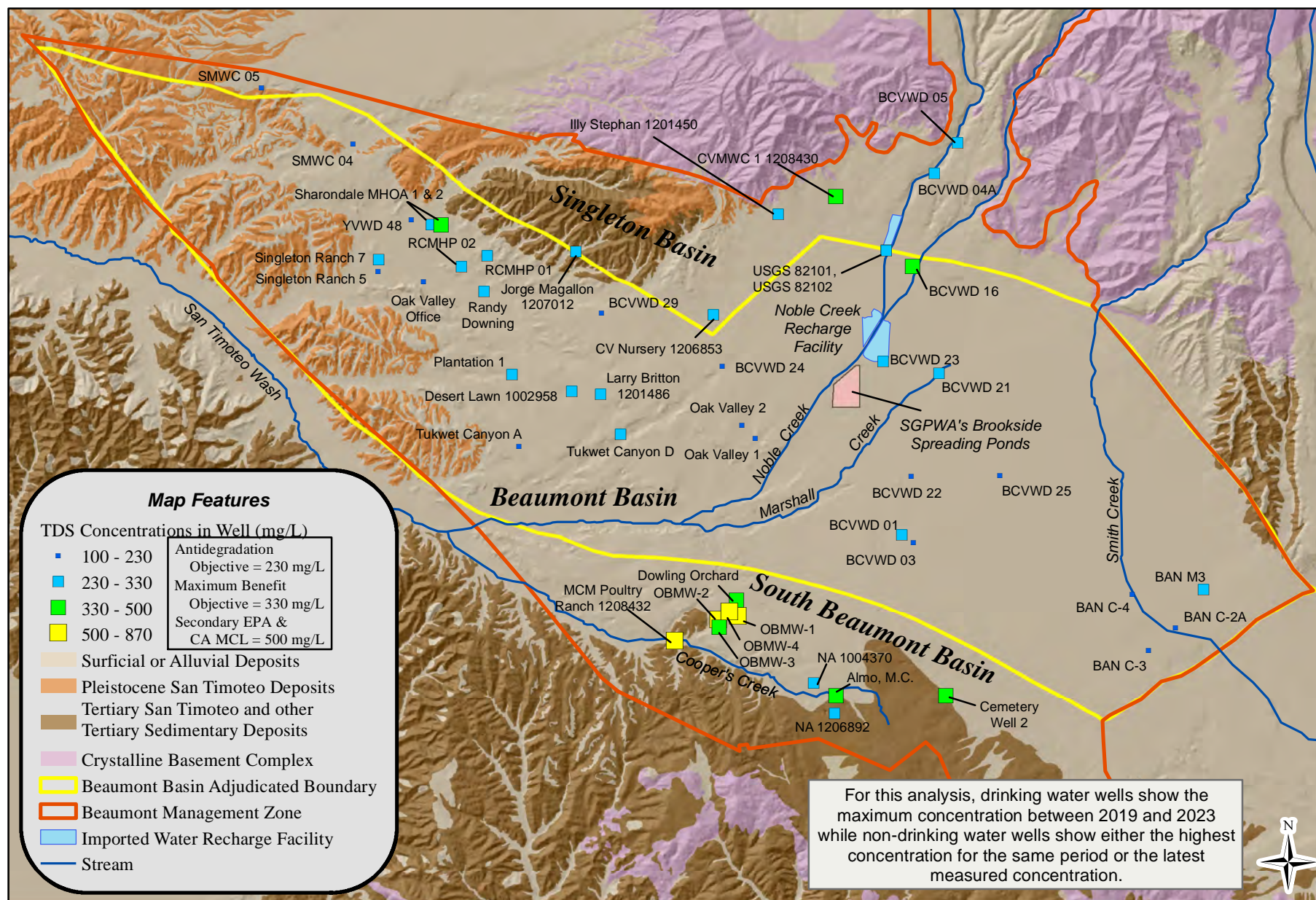
0 0.5 1 2
Miles

NAD 83 UTM Zone 11

March 2024

**Wells with Groundwater Quality Data
in the Beaumont Basin Area**

Figure 4-1



Alda, Inc. in association with

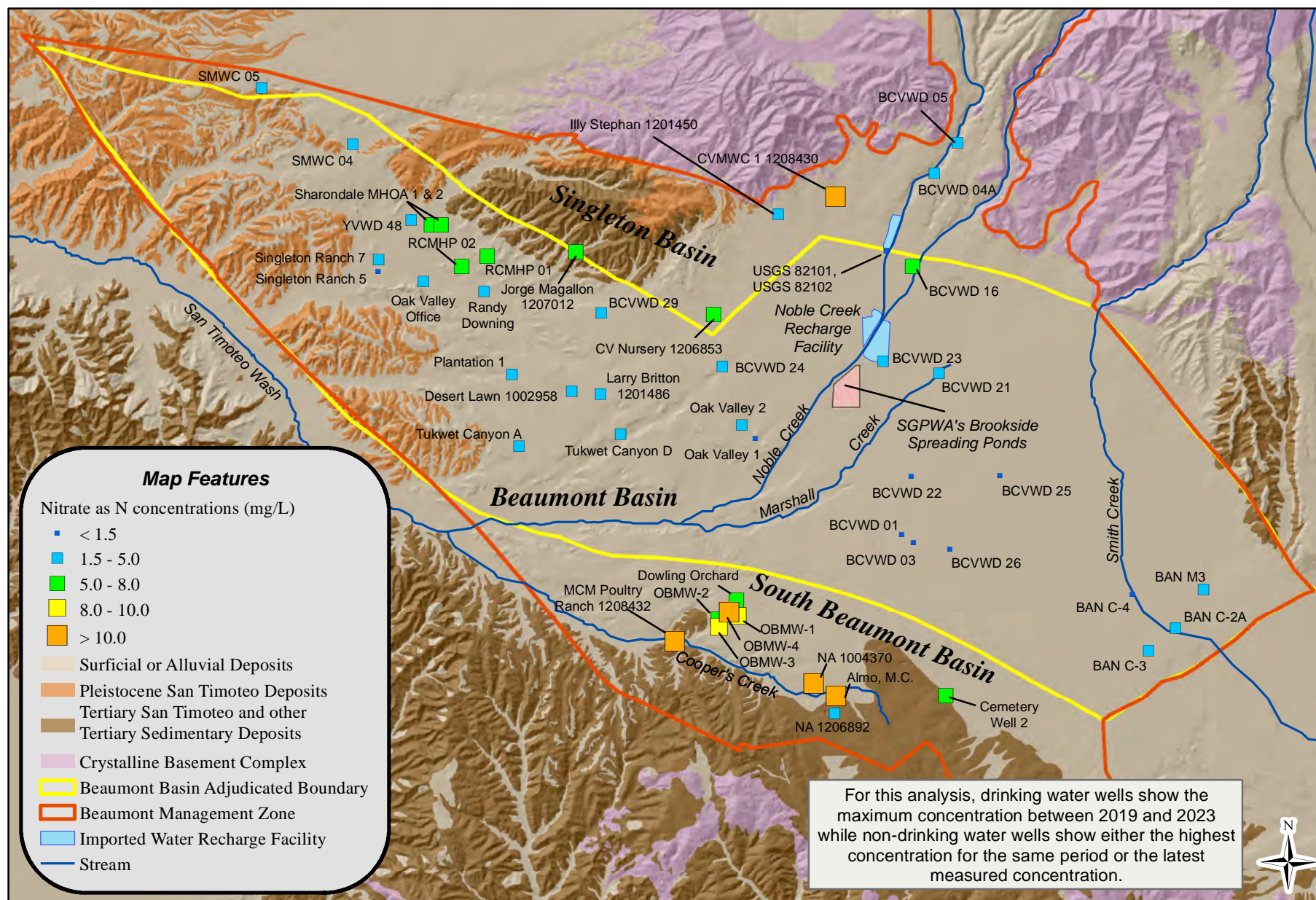
Thomas Harder & Co.
Groundwater Consulting

0 0.5 1 2 Miles
NAD 83 UTM Zone 11

March 2024

**Total Dissolved Solids in Groundwater
(Maximum Concentrations 2019 to 2023)**

Figure 4-2



Alda, Inc. in association with

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Groundwater Consulting

March 2024

**Nitrate in Groundwater
(Maximum Concentrations 2019 to 2023)**

Figure 4-3

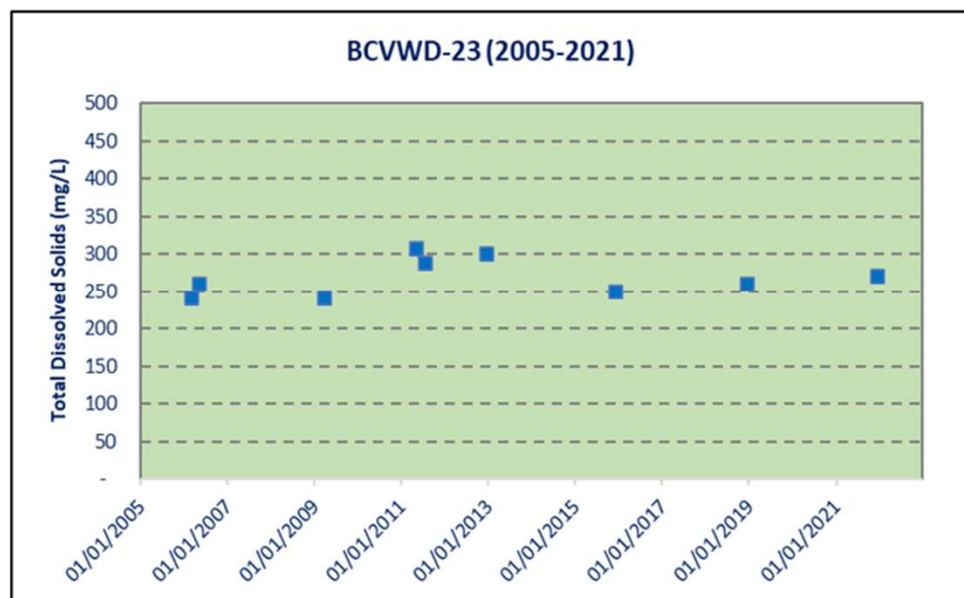
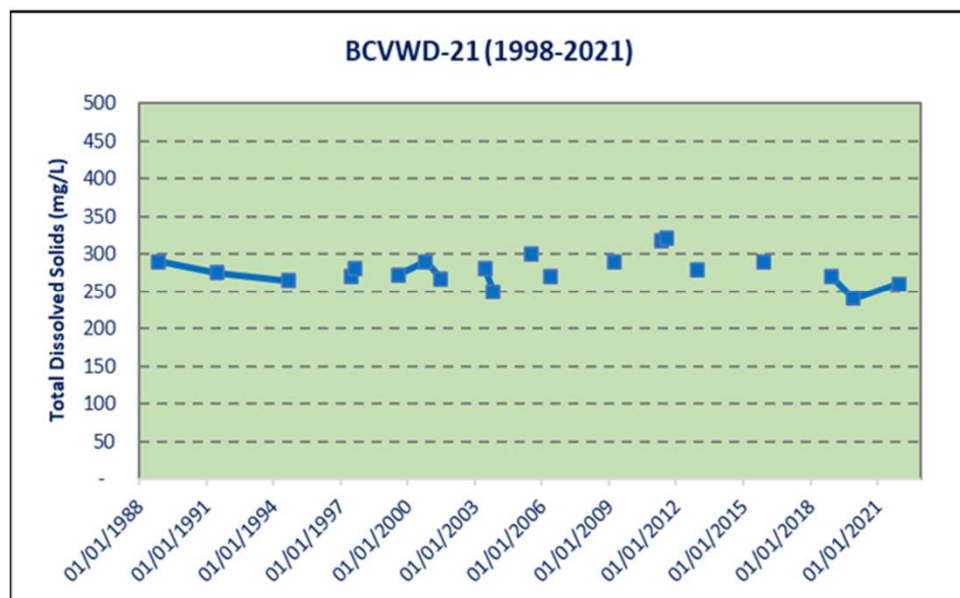
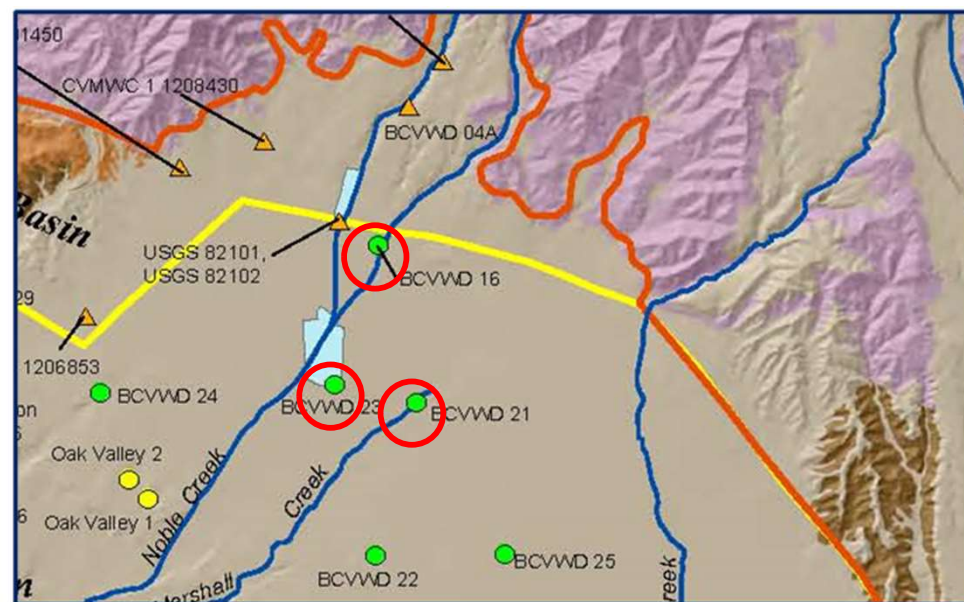
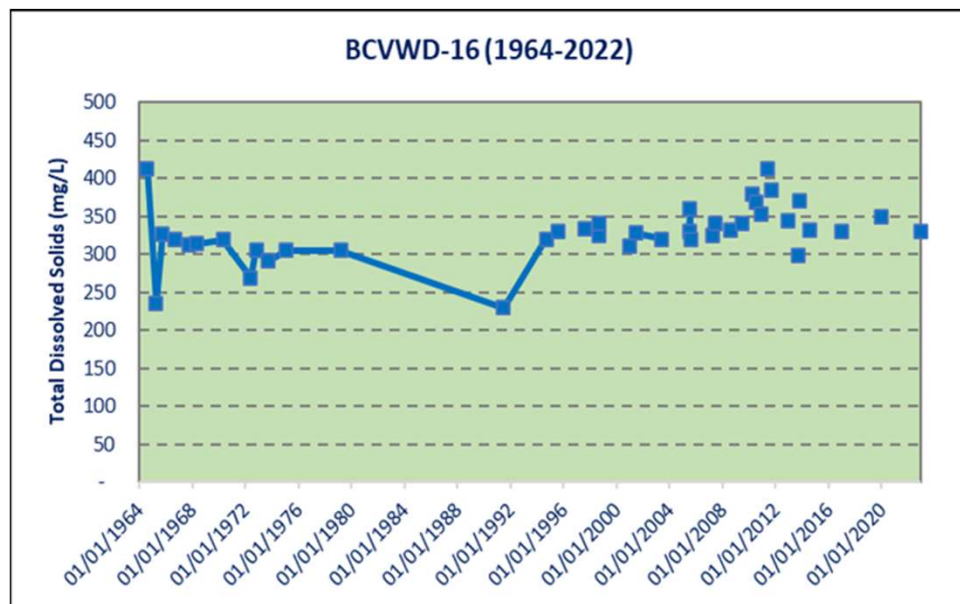


Figure 4-4
Noble Creek Area – Historical Total Dissolved Solids Concentration

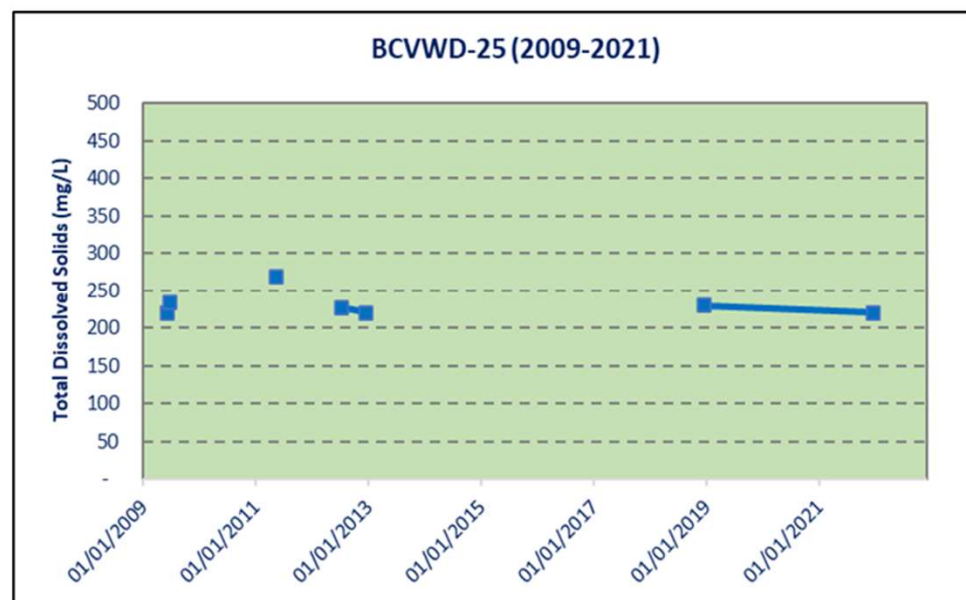
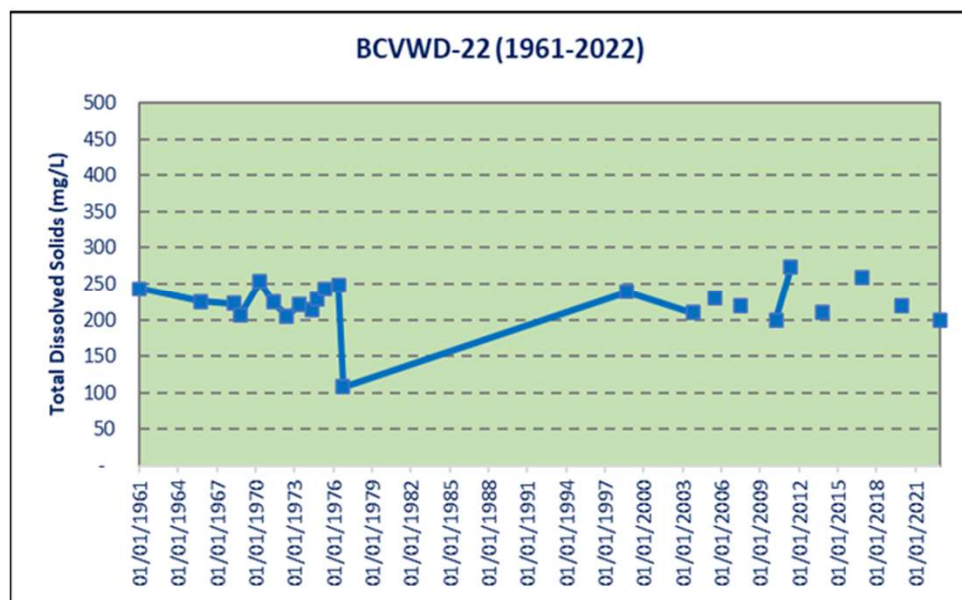
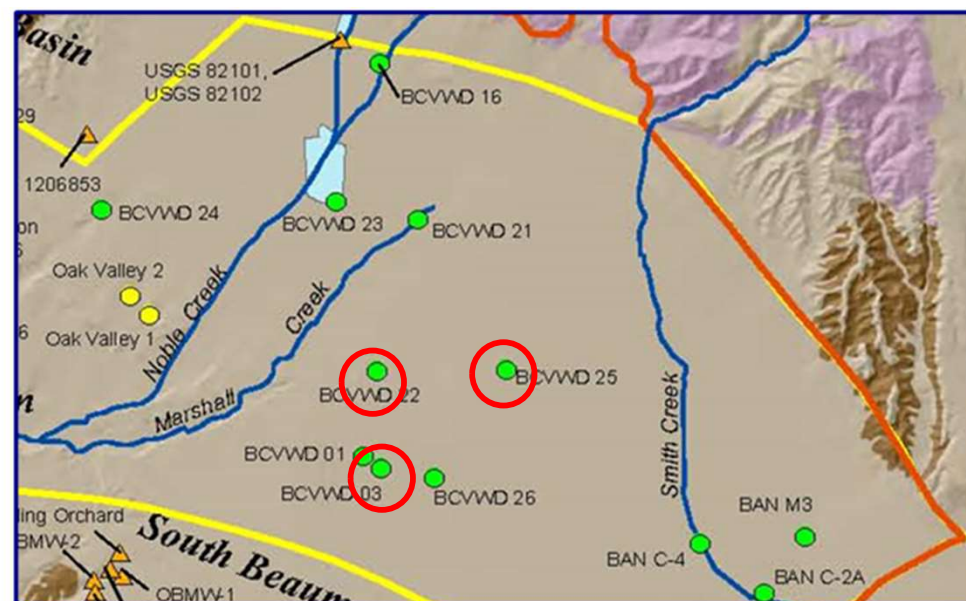
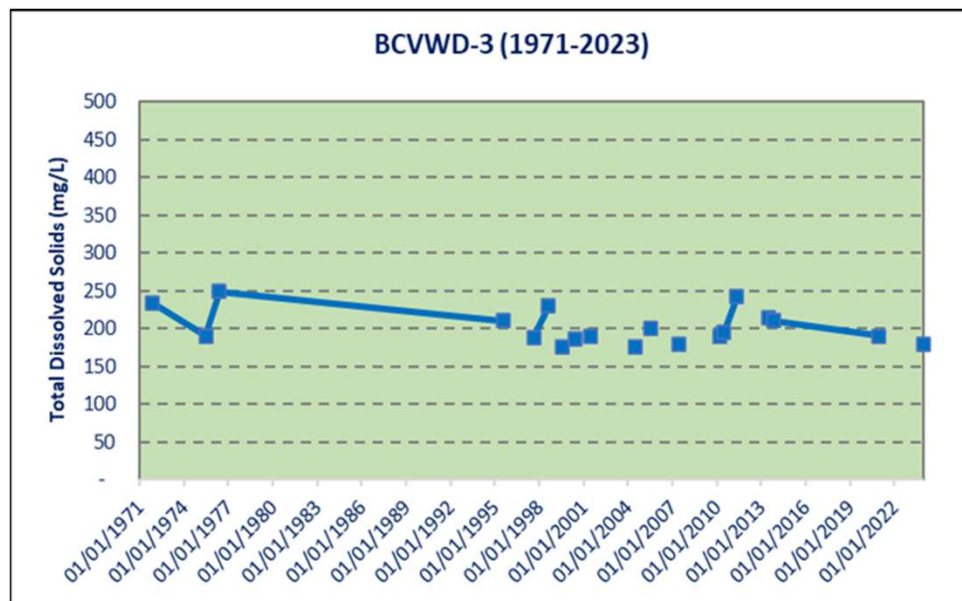


Figure 4-5
East of Marshall Creek – Historical Total Dissolved Solids Concentration

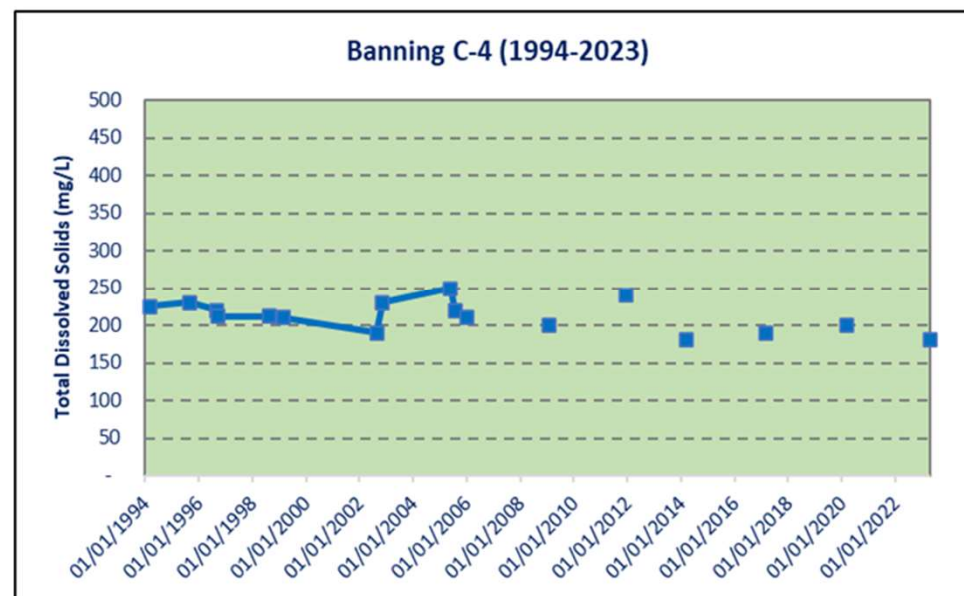
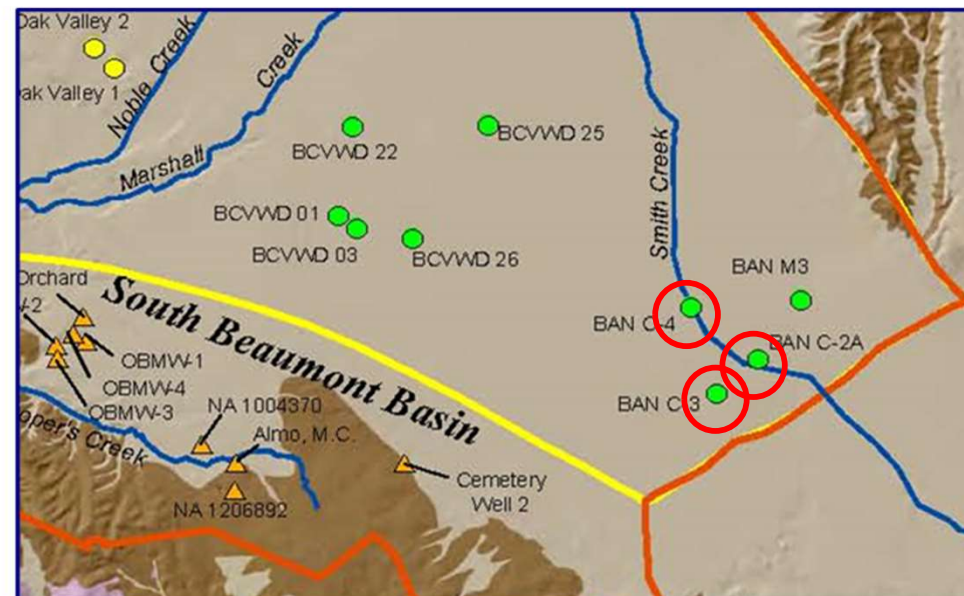
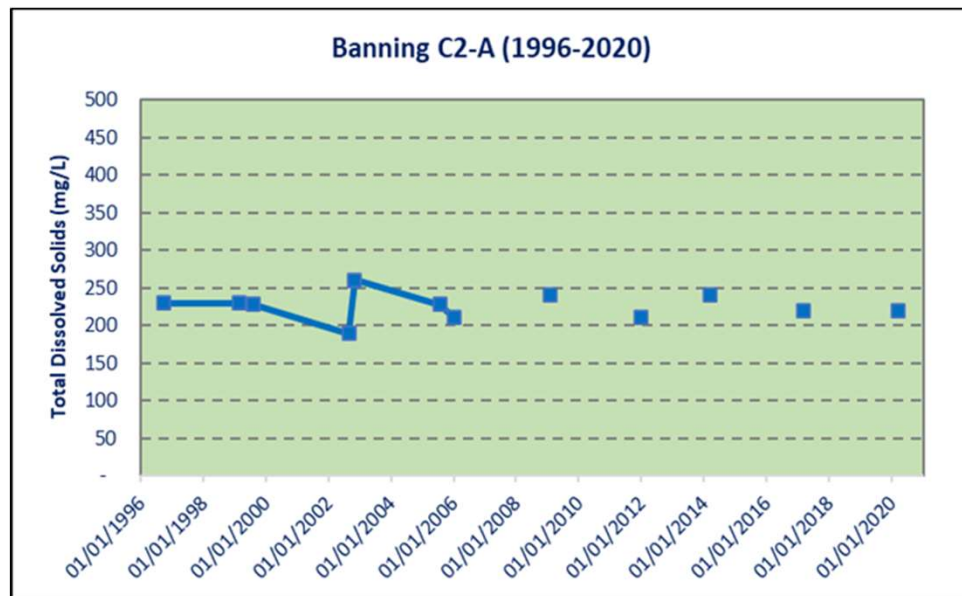


Figure 4-6
Banning Area – Historical Total Dissolved Solids Concentration

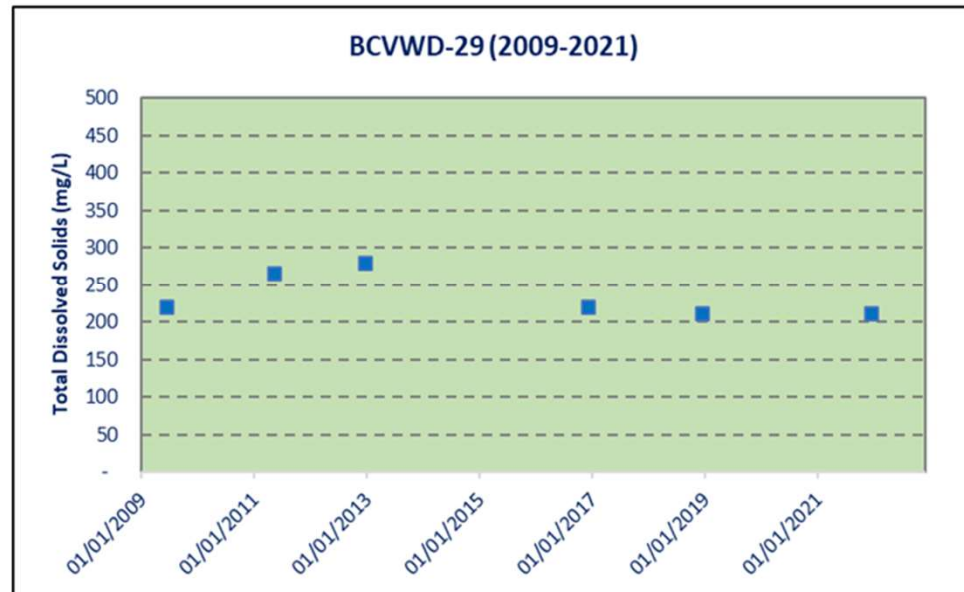
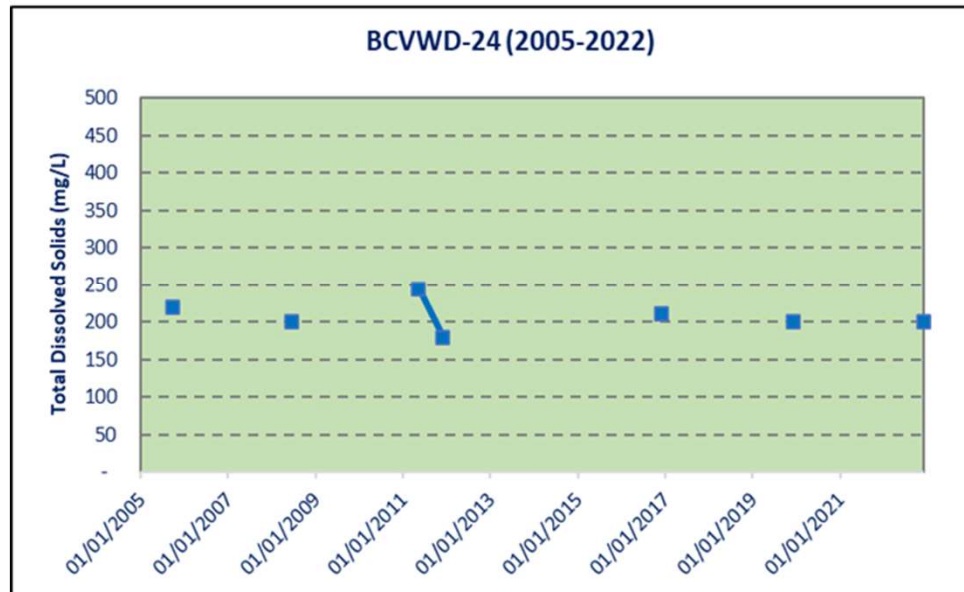
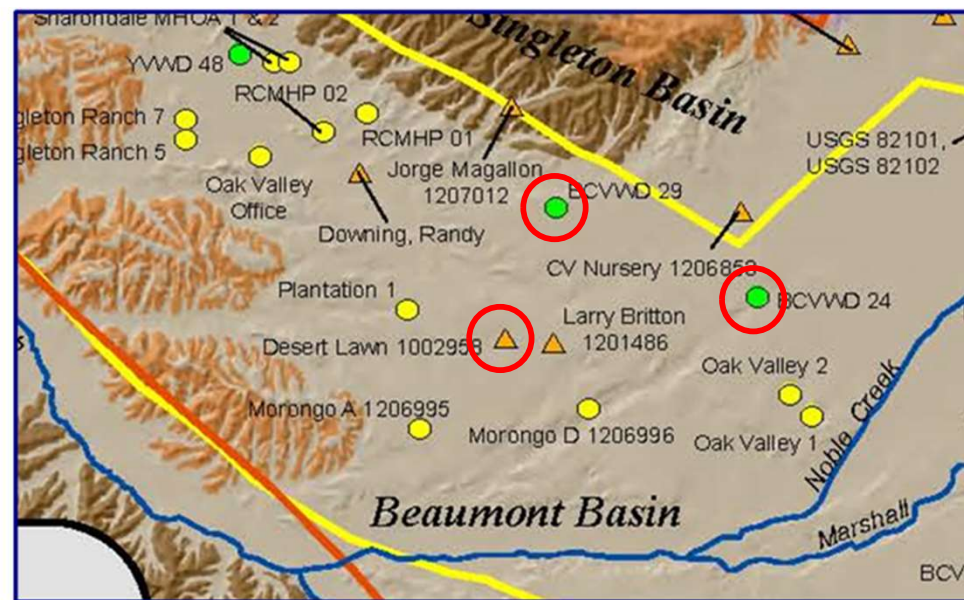
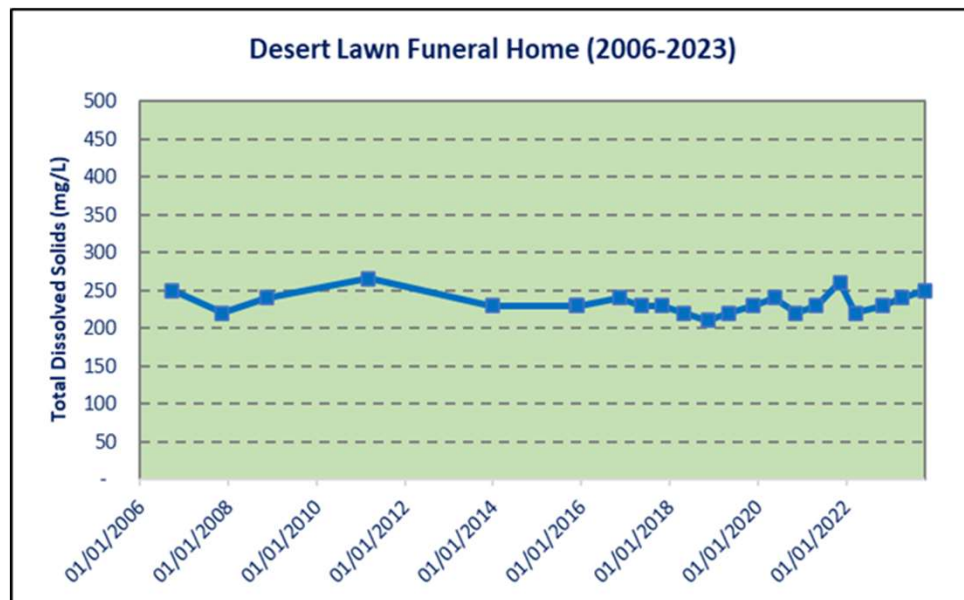


Figure 4-7
West of Noble Creek – Historical Total Dissolved Solids Concentration

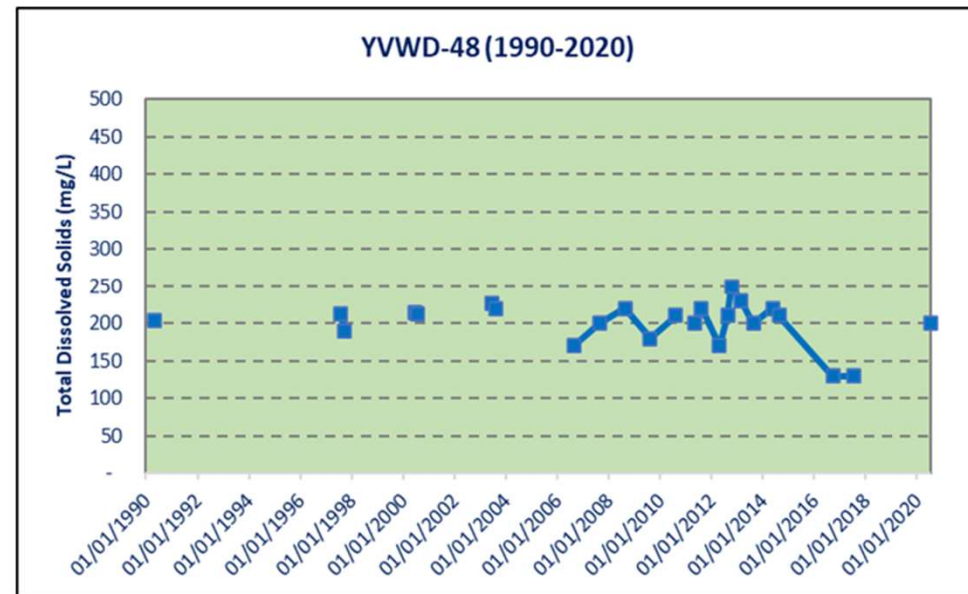
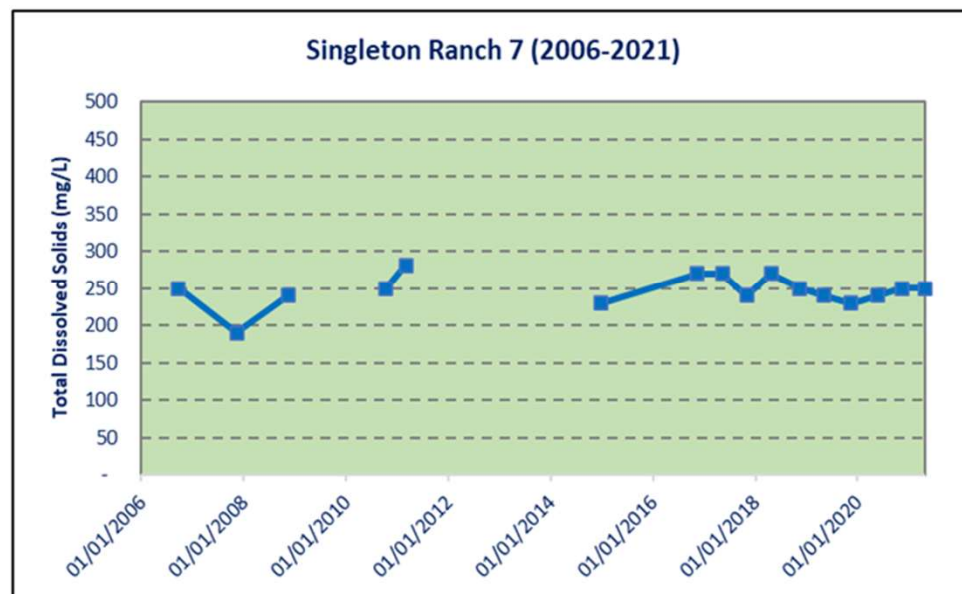
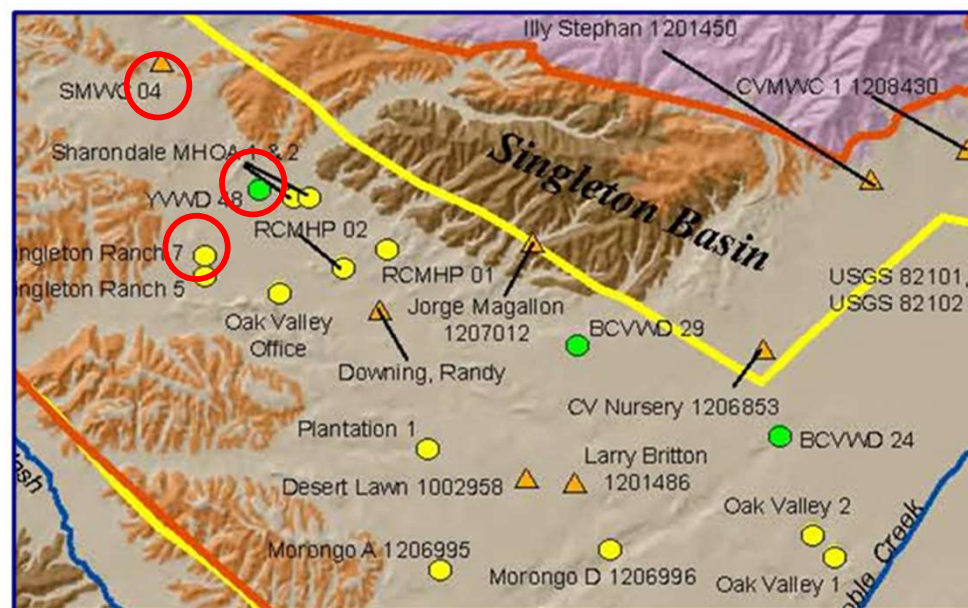
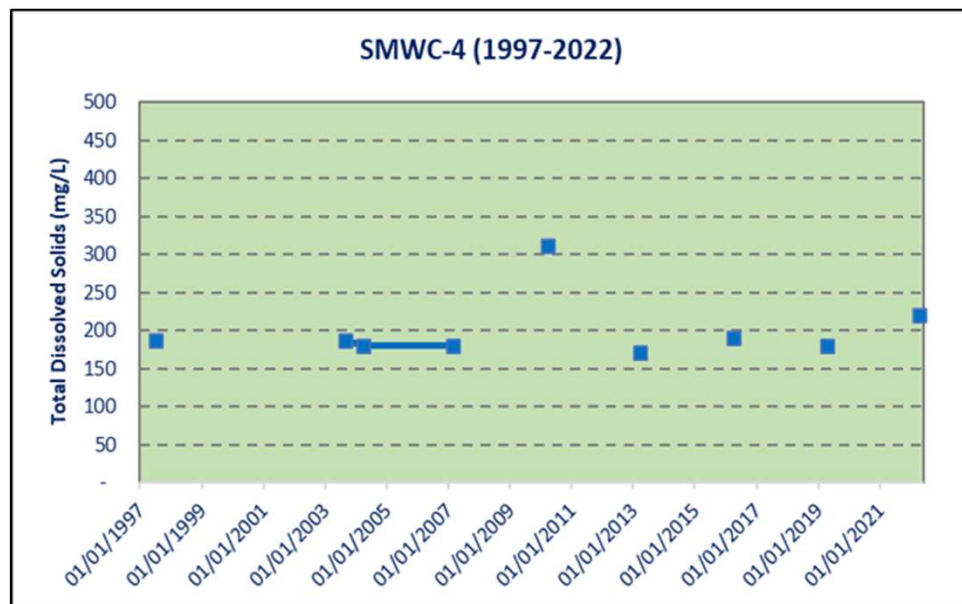


Figure 4-8
Northwest Area – Historical Total Dissolved Solids Concentration

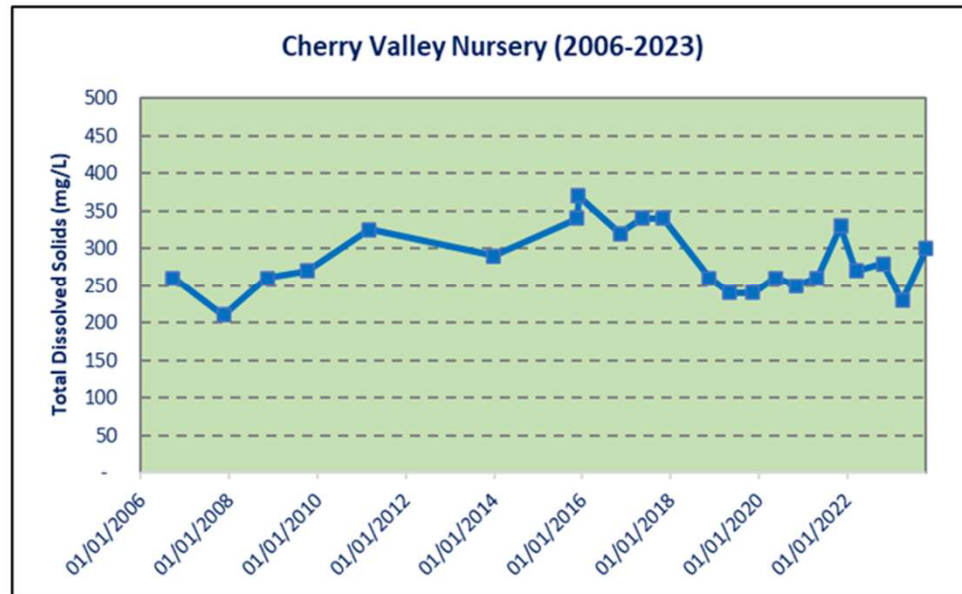
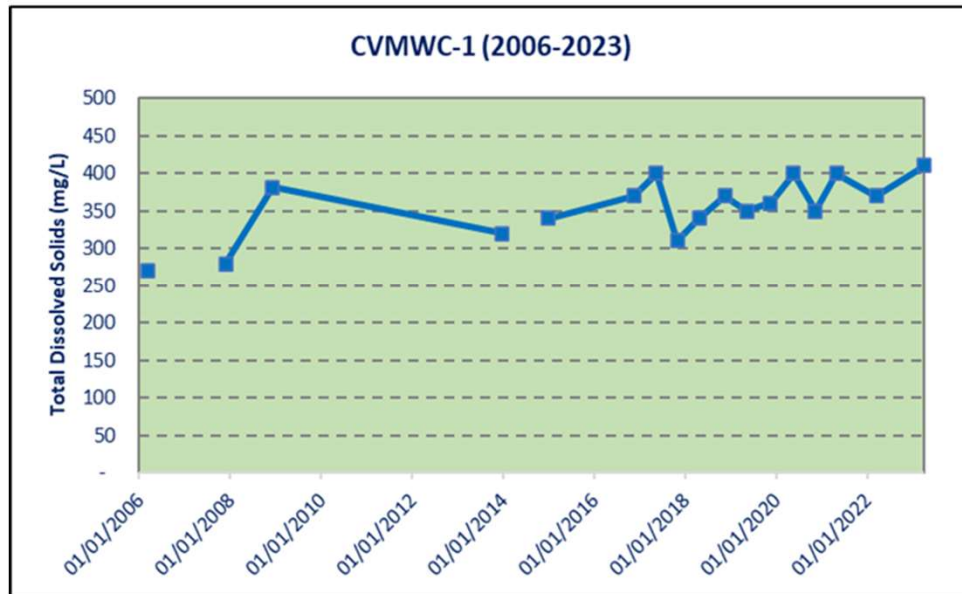
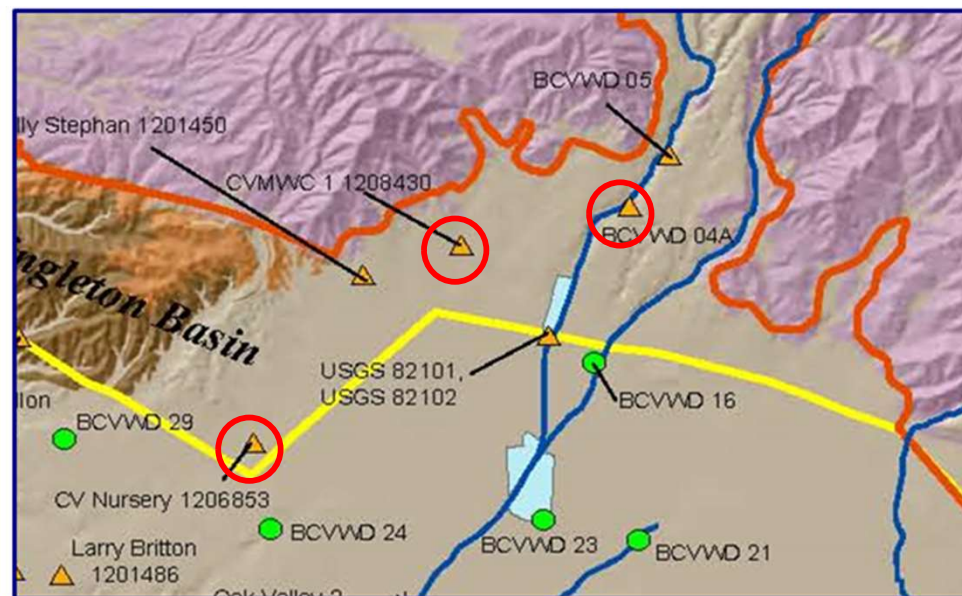
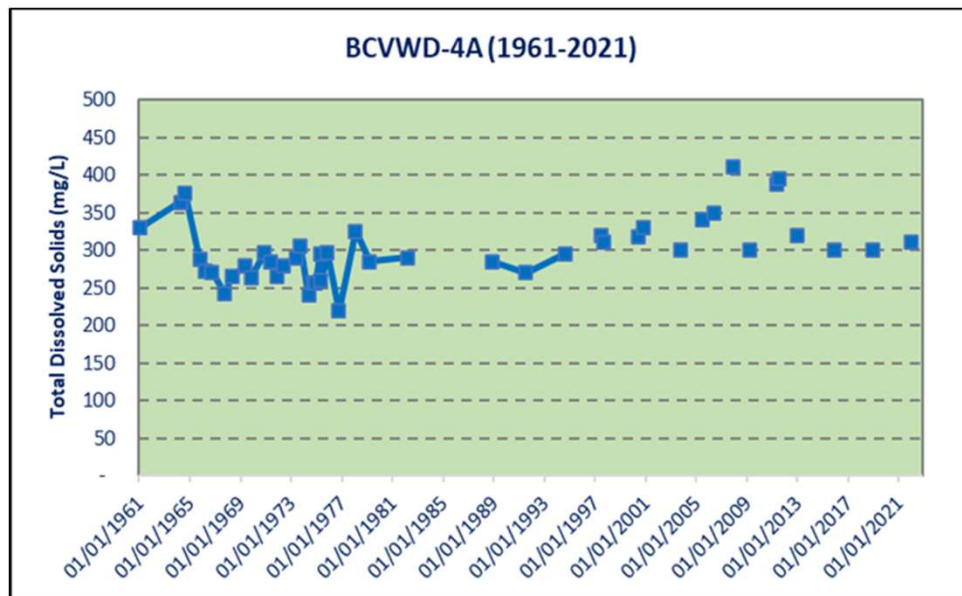


Figure 4-9
Singleton Basin – Historical Total Dissolved Solids Concentration

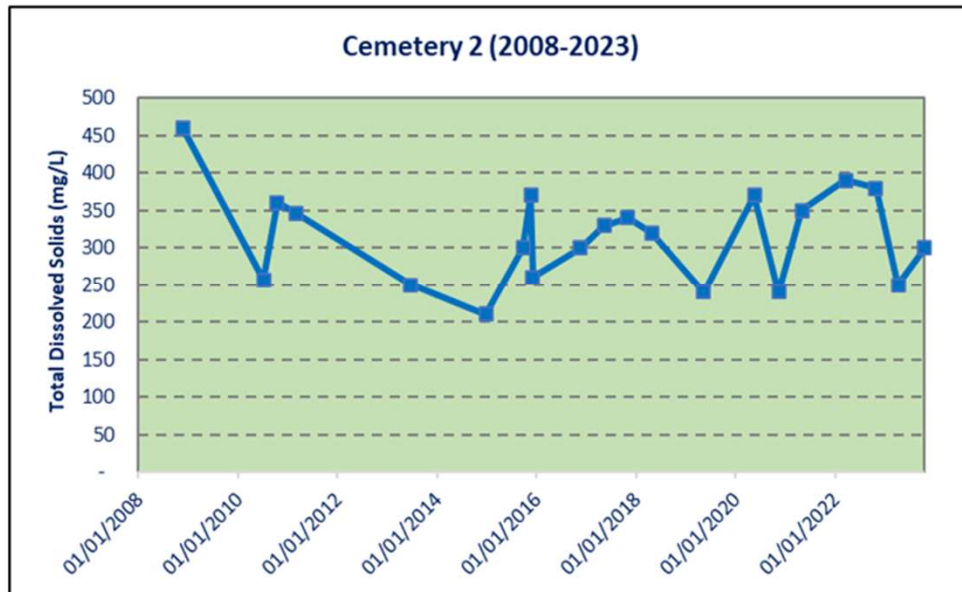
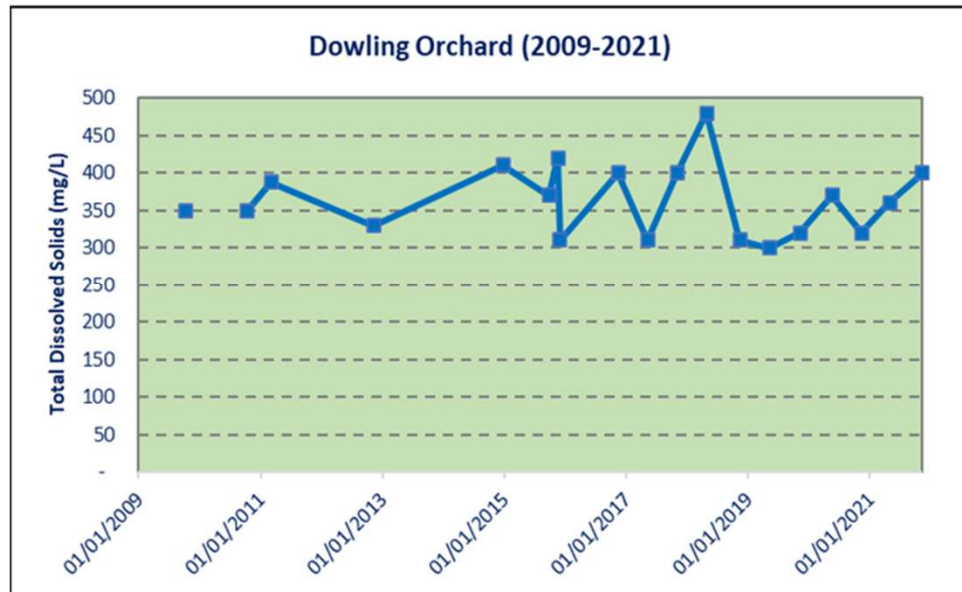
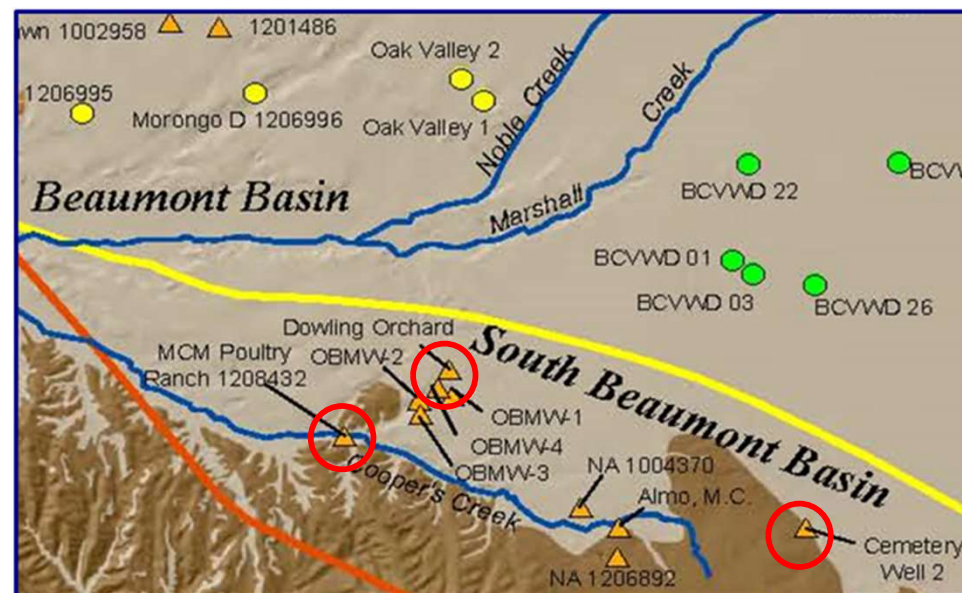
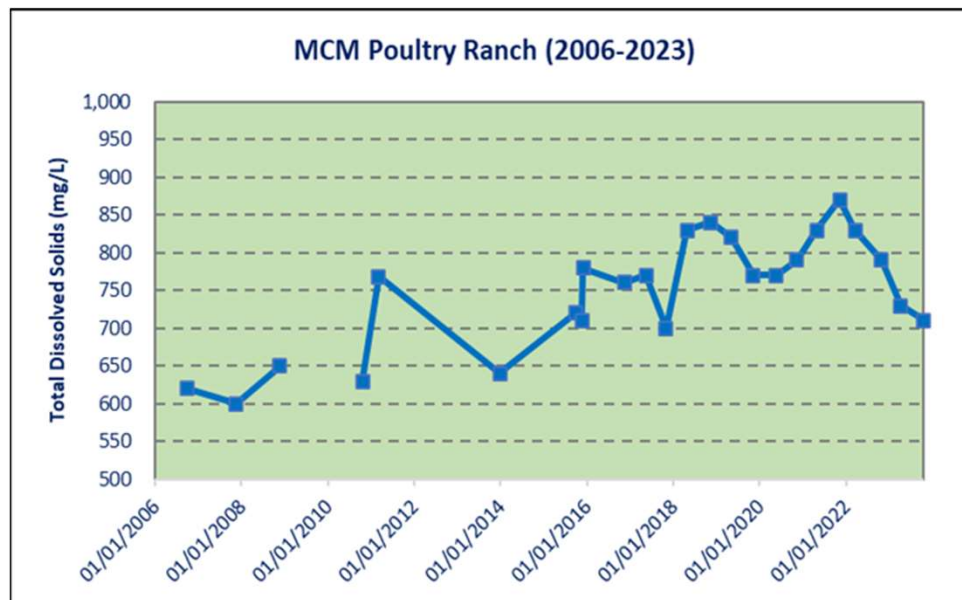


Figure 4-10
South Beaumont Basin – Historical Total Dissolved Solids Concentration

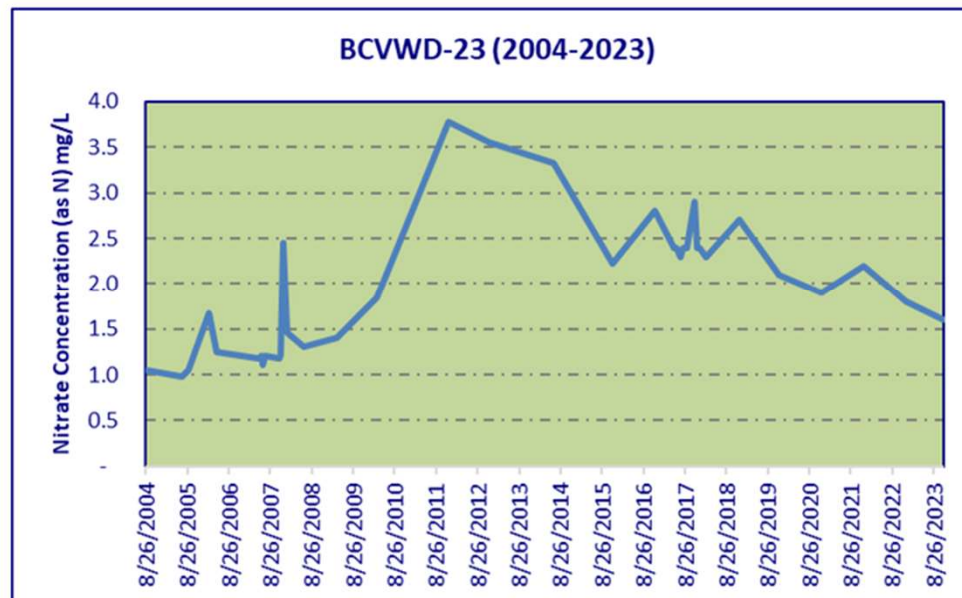
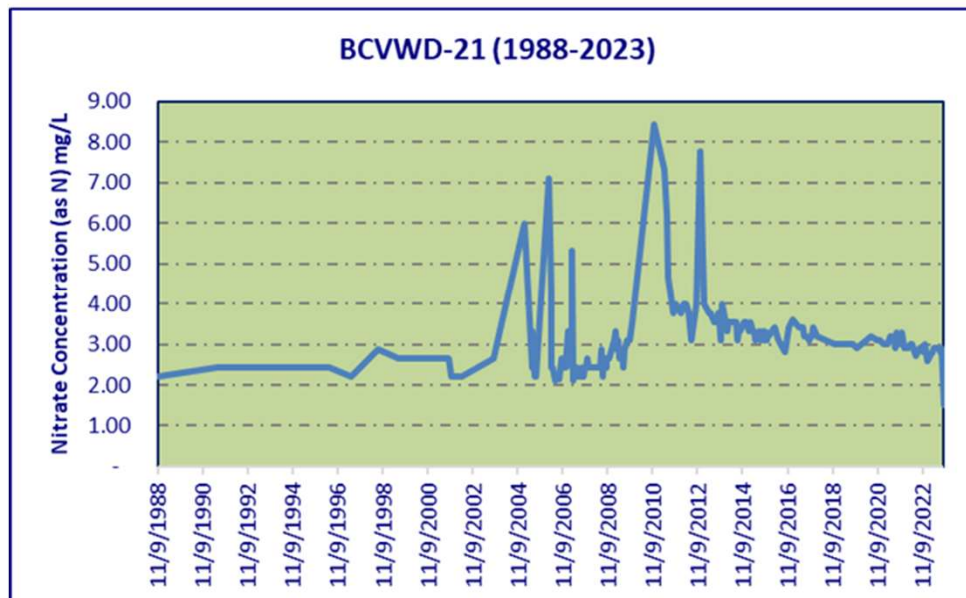
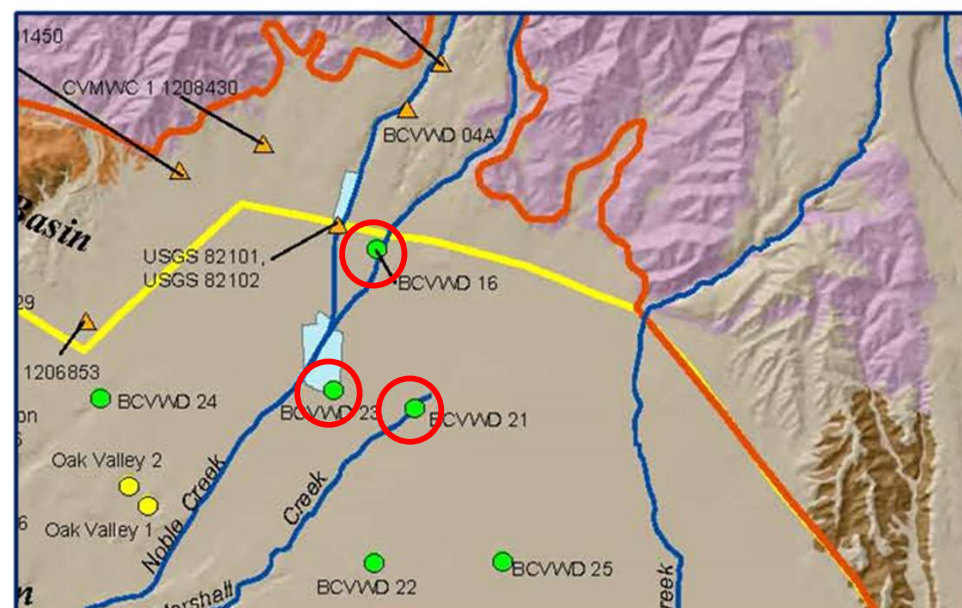
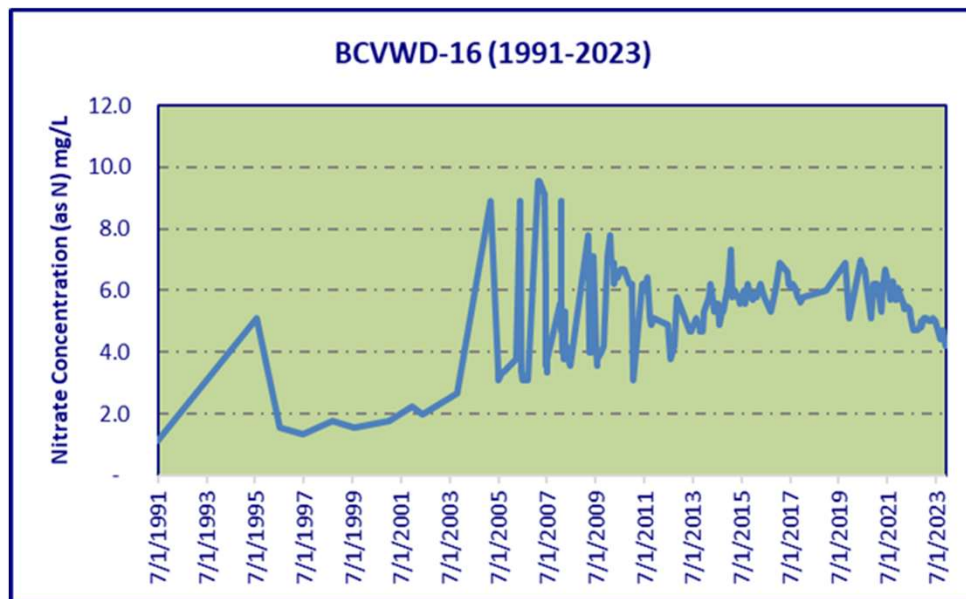


Figure 4-11
Noble Creek Area – Historical Nitrate Concentration

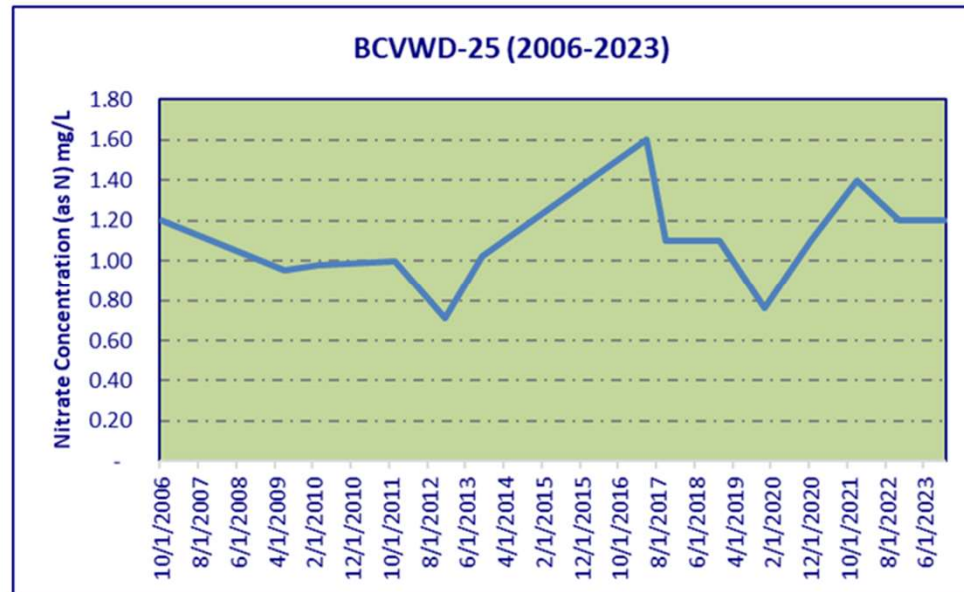
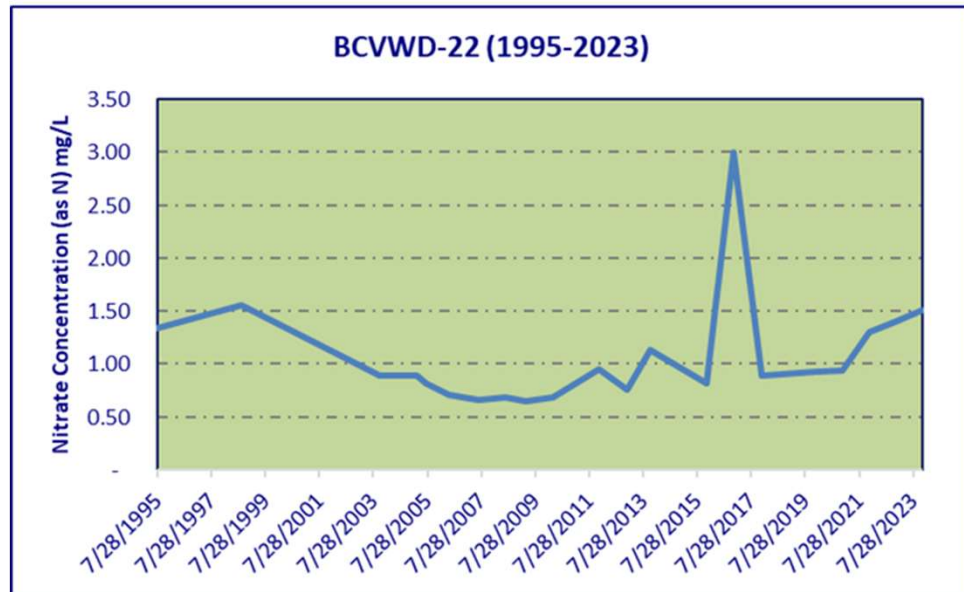
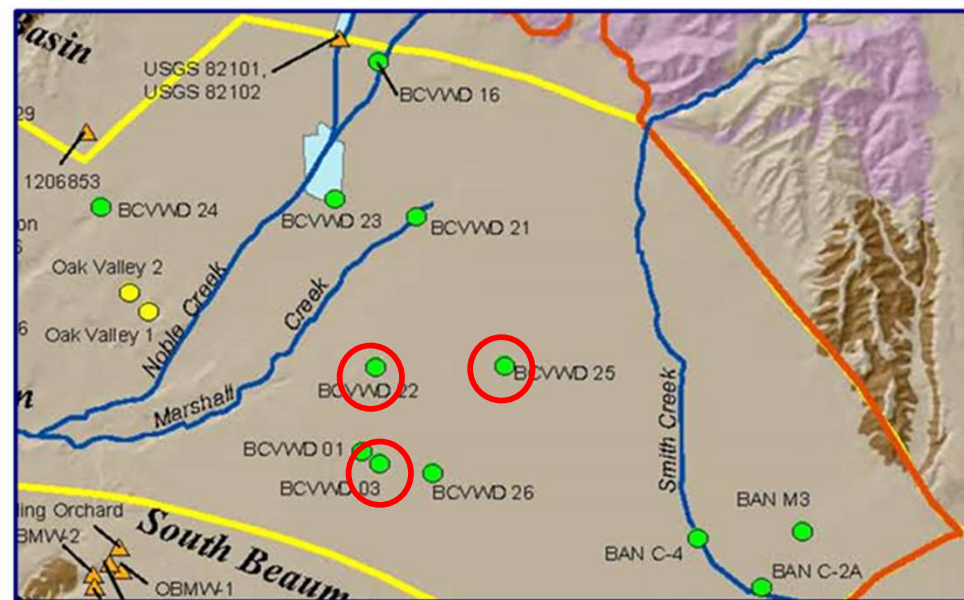
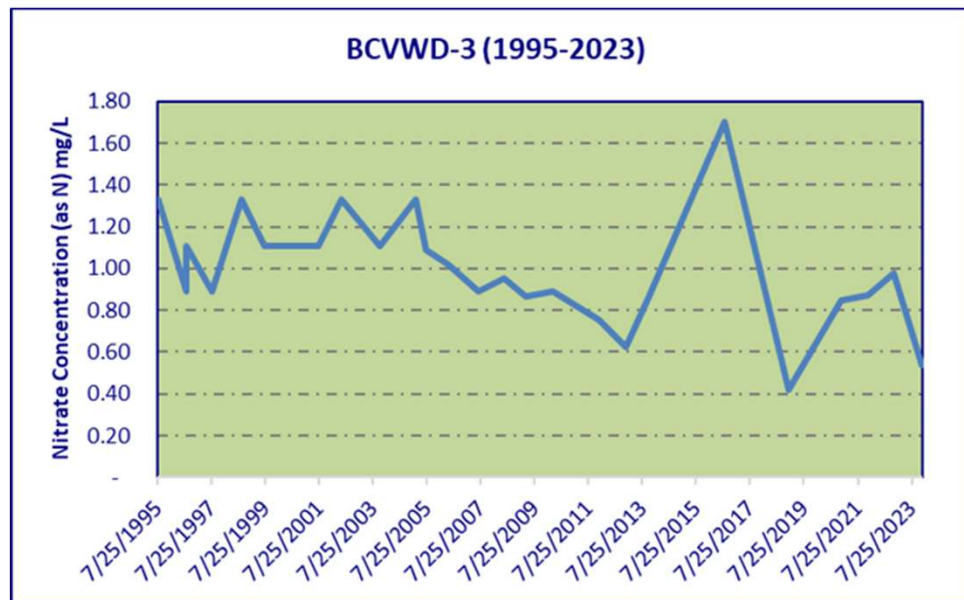


Figure 4-12
East of Marshall Creek – Historical Nitrate Concentration

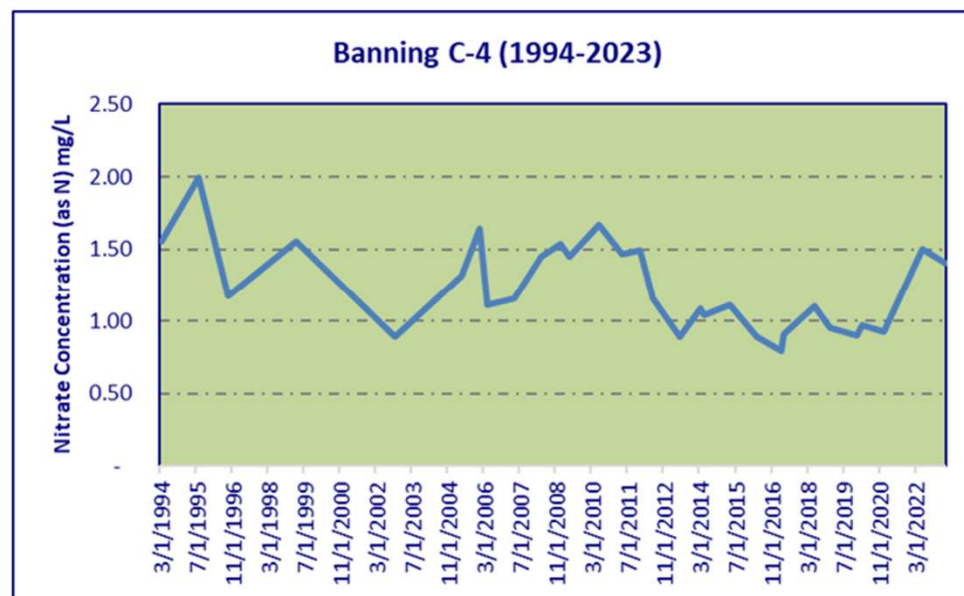
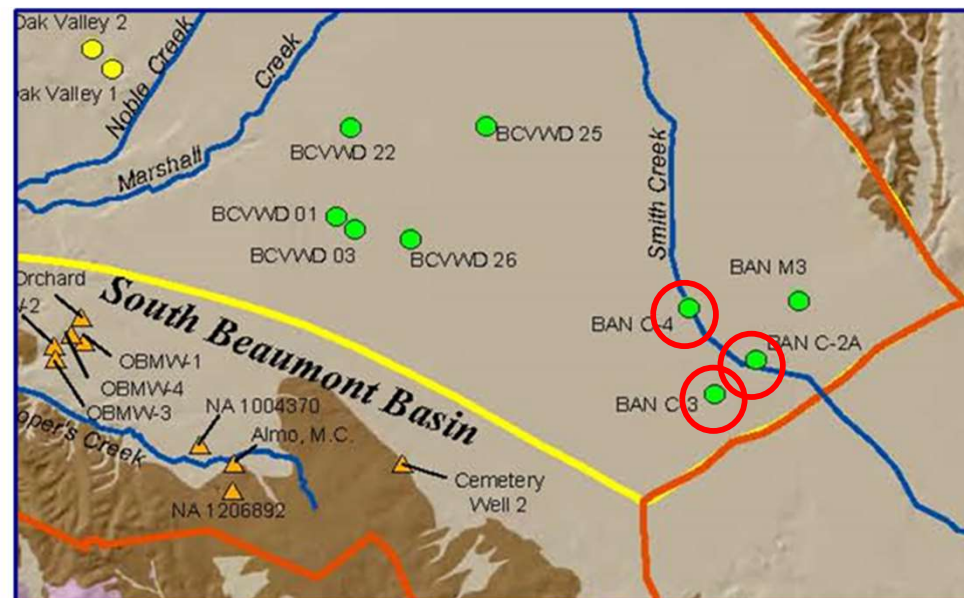
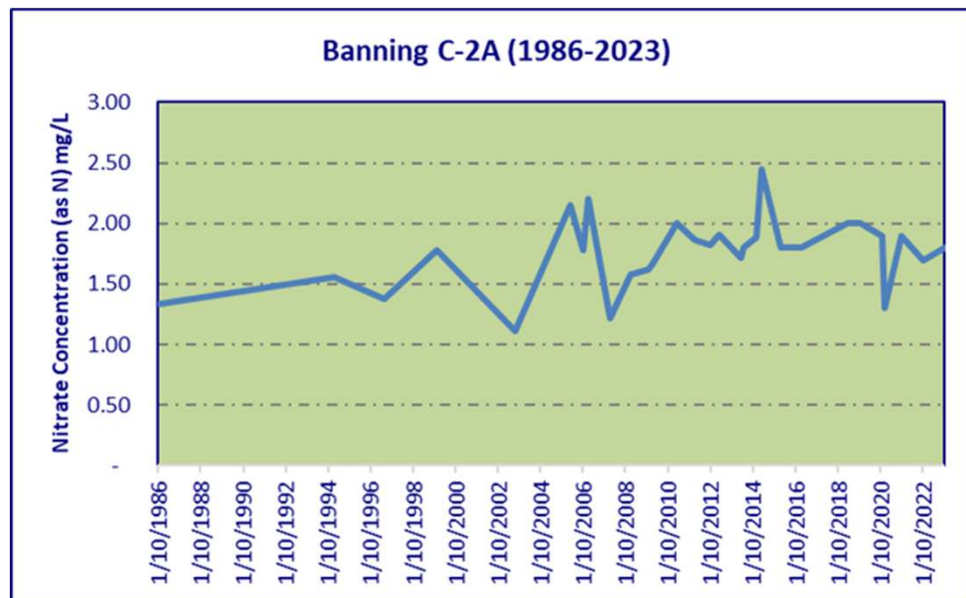


Figure 4-13
Banning Area – Historical Nitrate Concentration

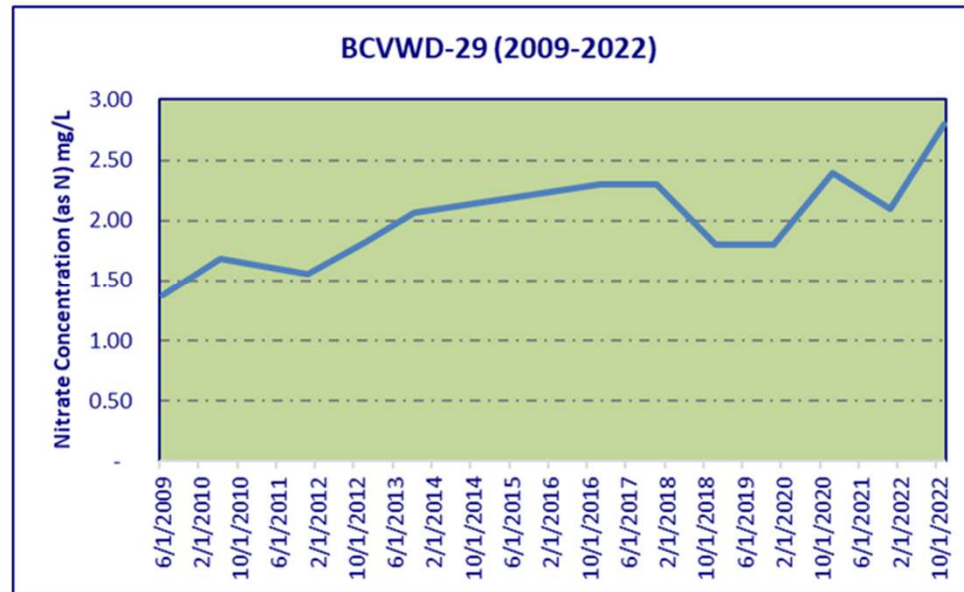
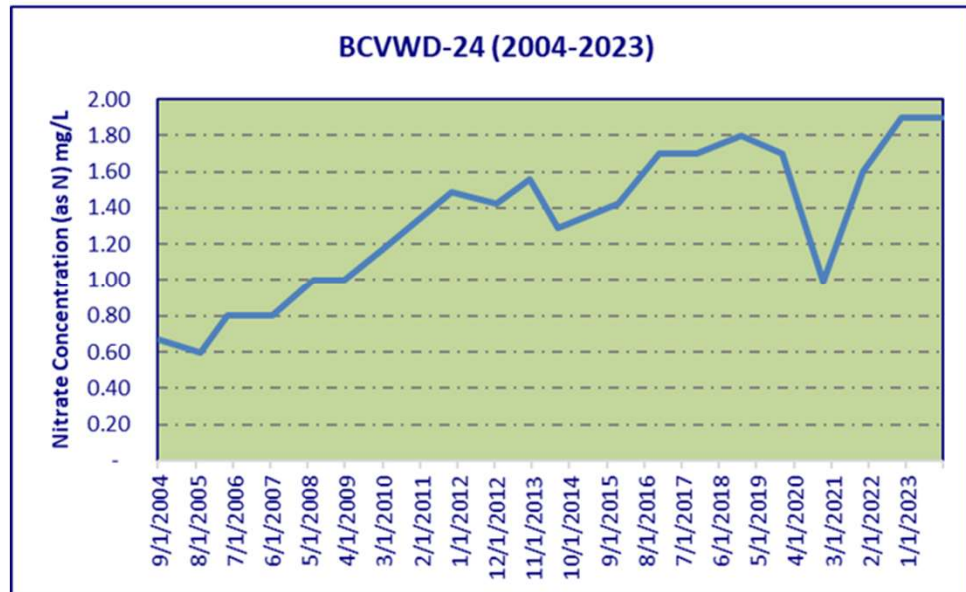
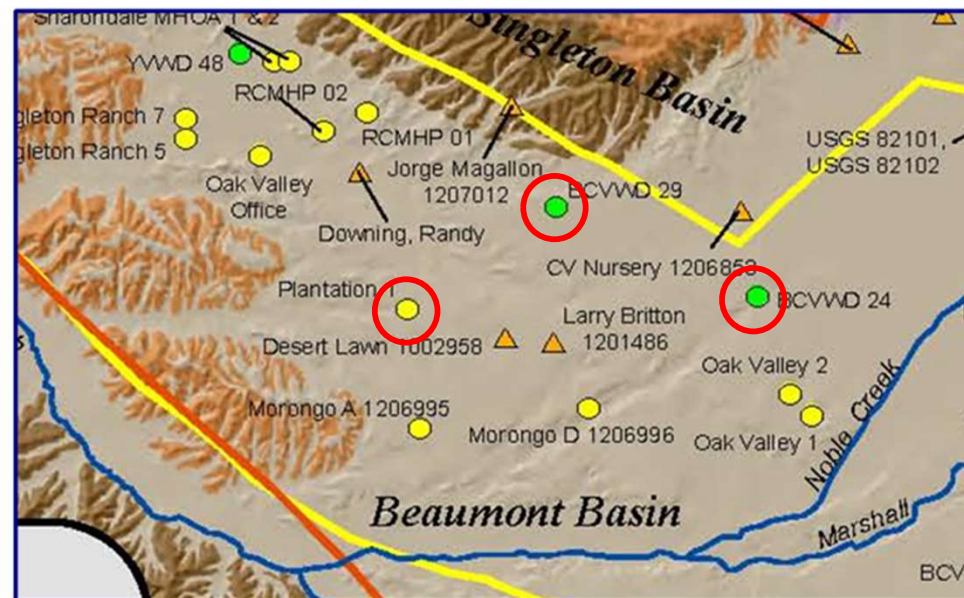
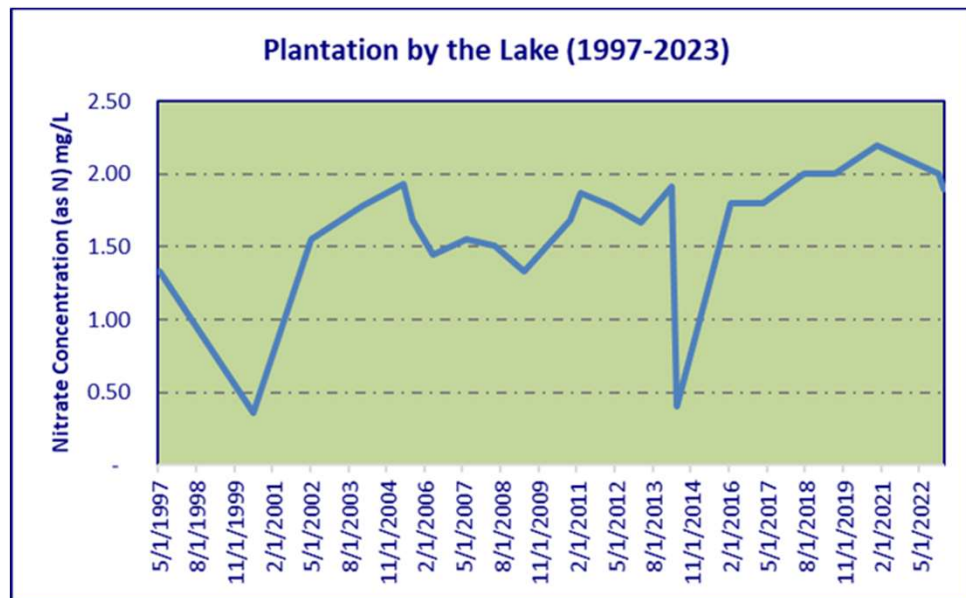


Figure 4-14
West of Noble Creek – Historical Nitrate Concentration

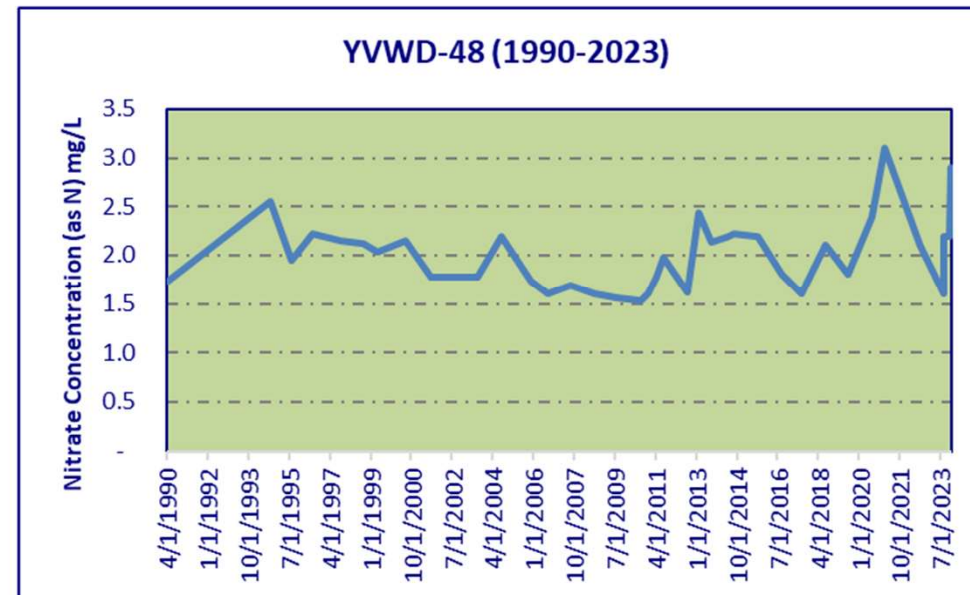
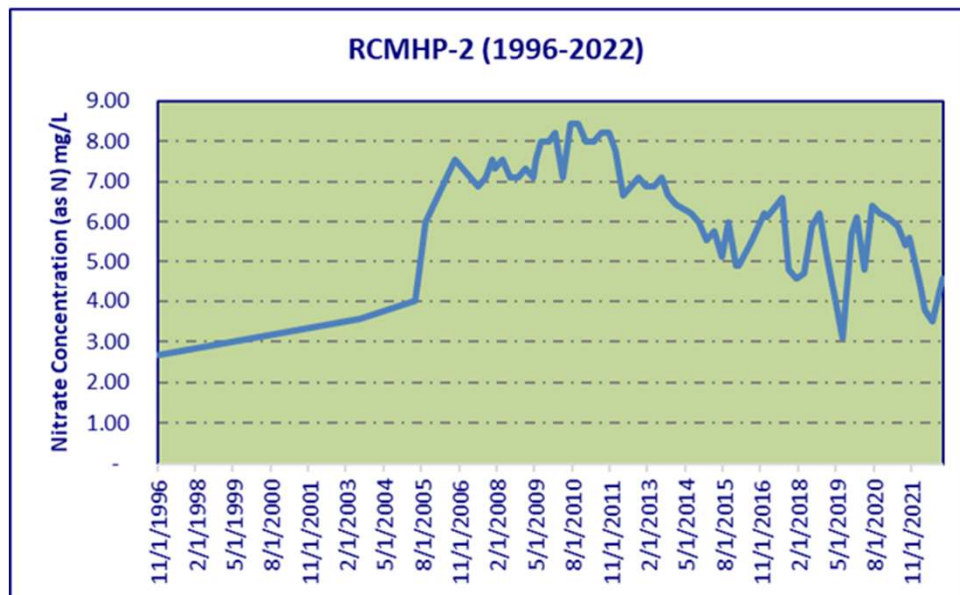
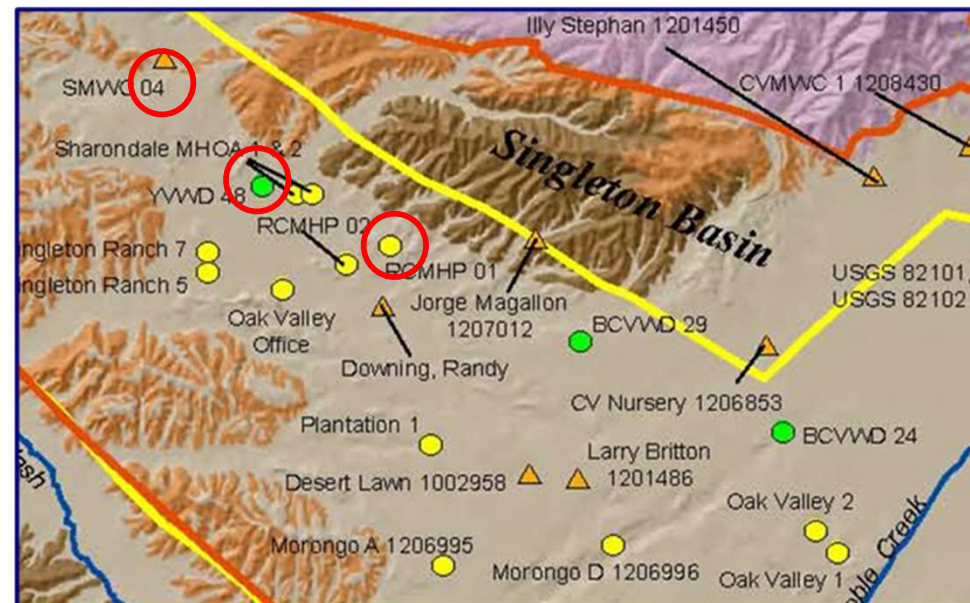
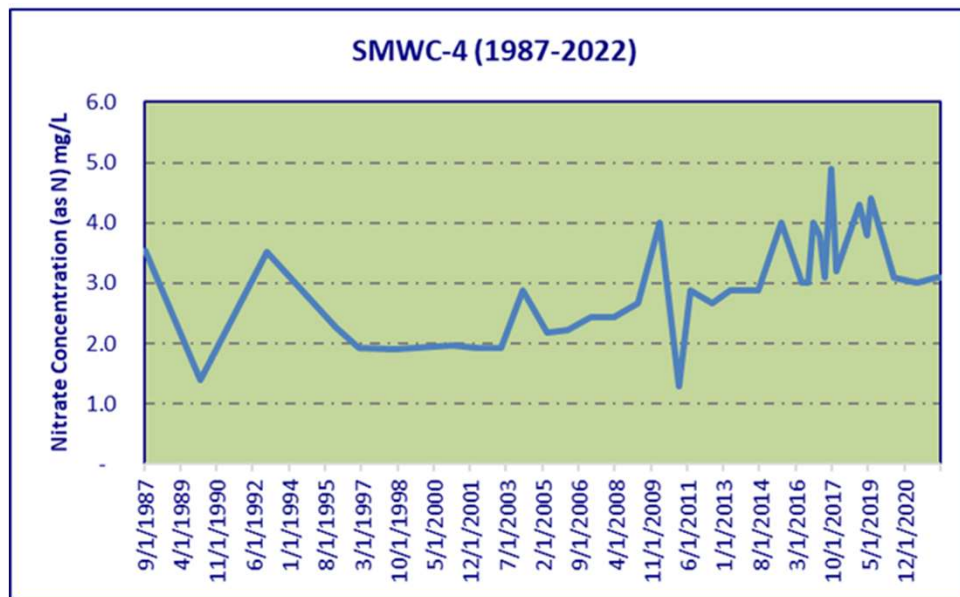


Figure 4-15
Northwest Area – Historical Nitrate Concentration

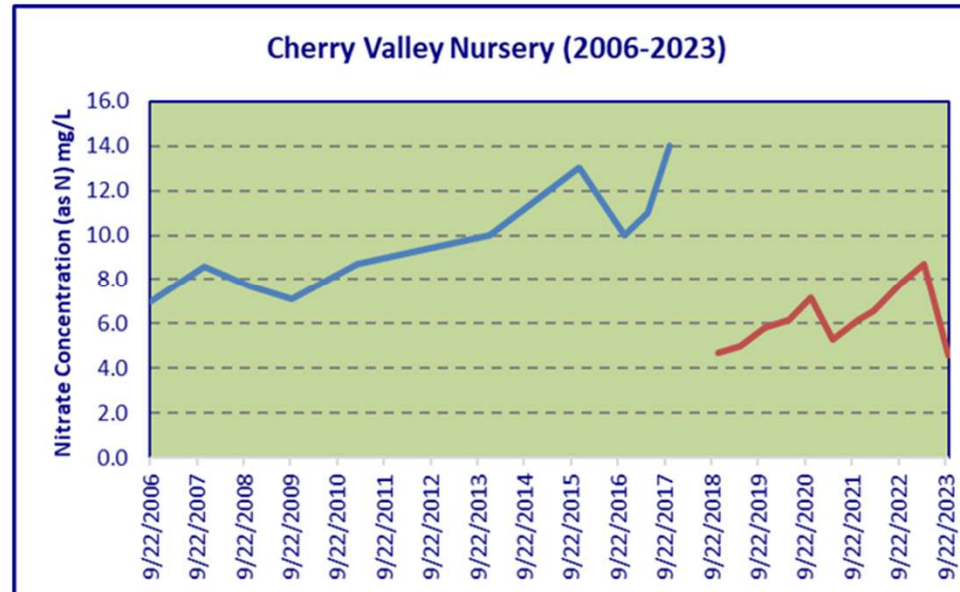
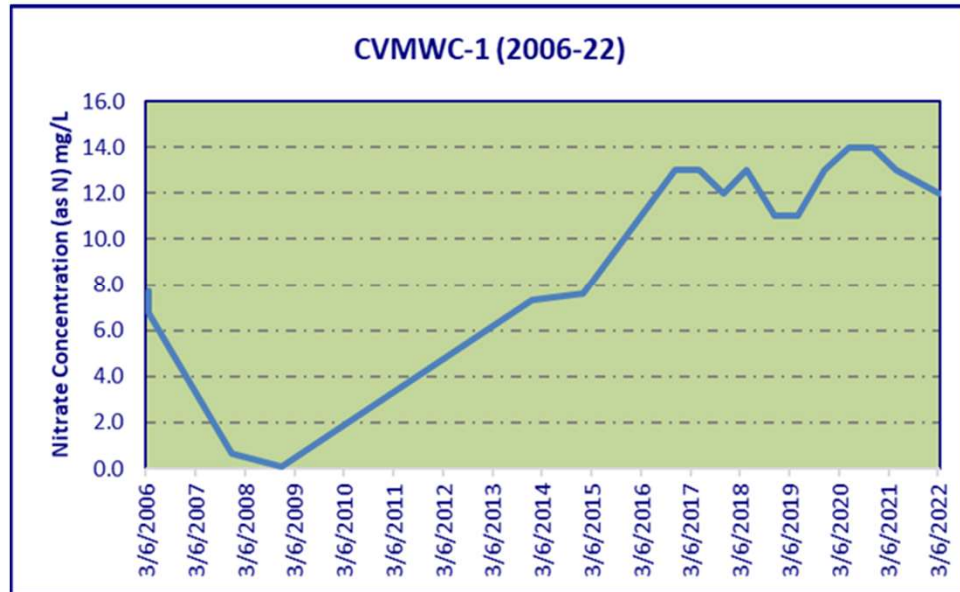
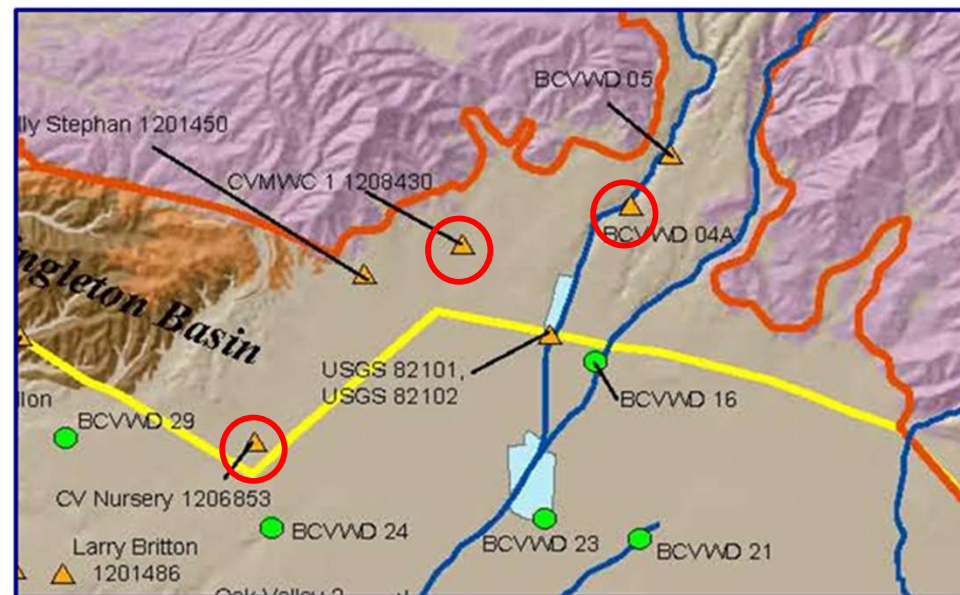
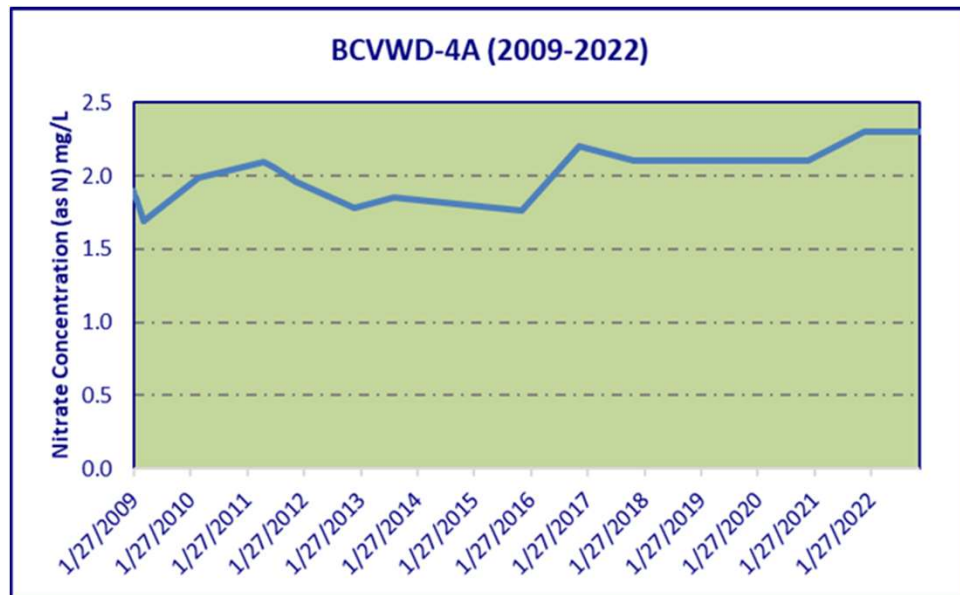


Figure 4-16
Singleton Basin – Historical Nitrate Concentration

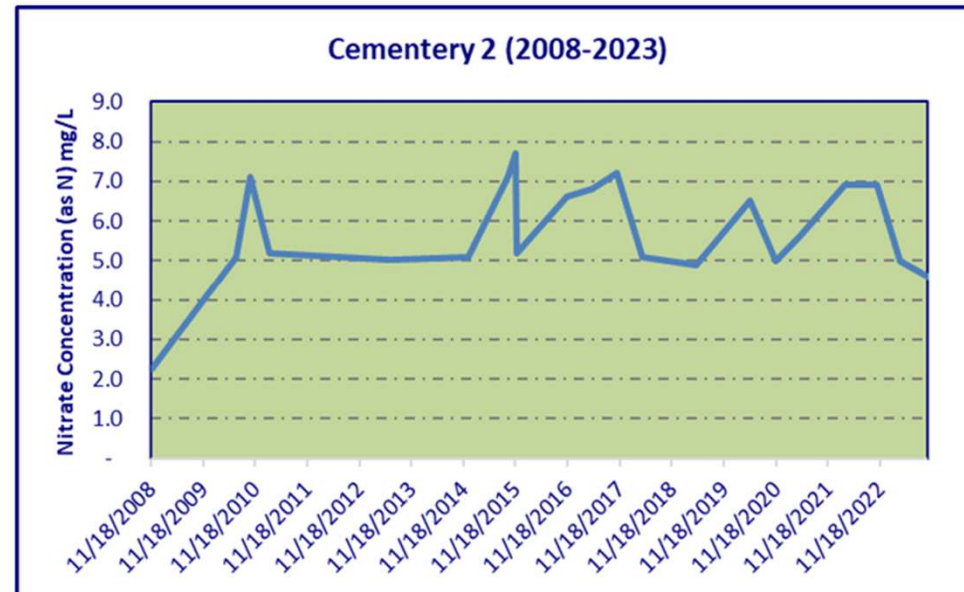
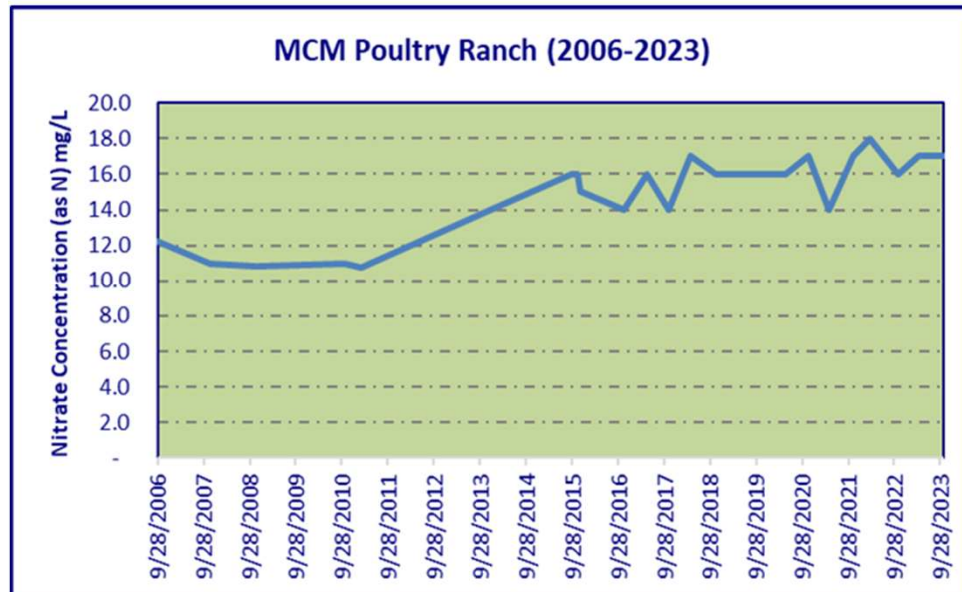
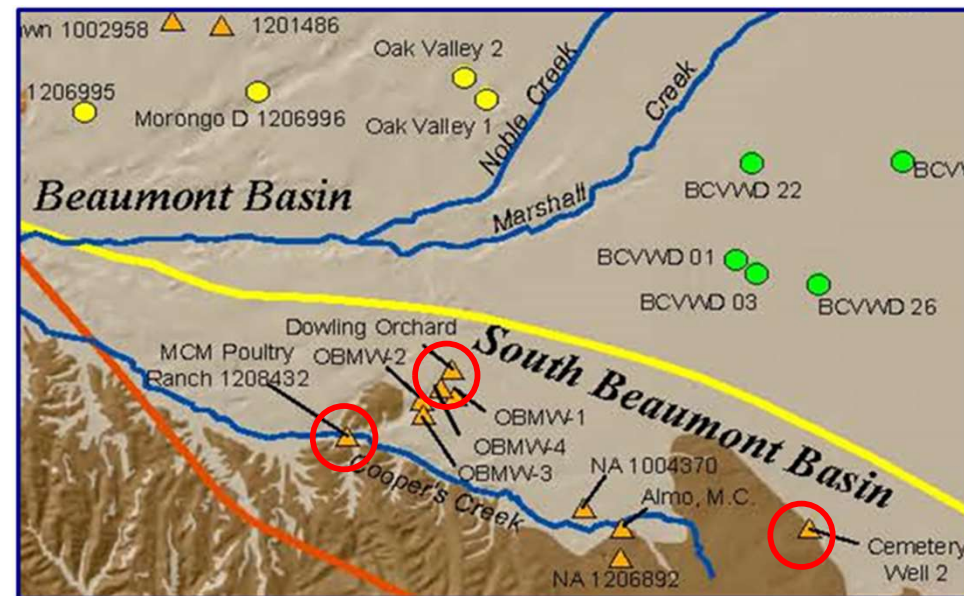
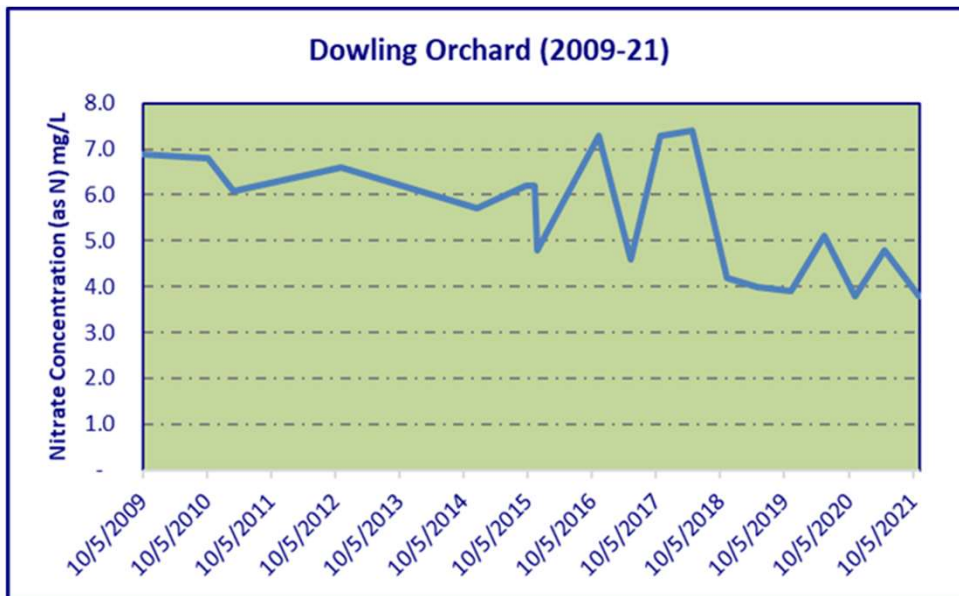


Figure 4-17
South Beaumont Basin – Historical Nitrate Concentration

Section 5

Land Subsidence

In the first ten years of operations under the Judgment, a temporary surplus was established that allows up to 160,000 acre-ft of overdraft within the Basin. The purpose of the temporary surplus was to create room for the safe storage of supplemental water and to reduce losses from the basin. A major concern is that overdraft of the groundwater basin may lead to the lowering of groundwater levels and, subsequently, to land subsidence and ground fissuring. To proactively address this concern, the STWMA and the Watermaster developed a monitoring program specifically to assess the occurrence of subsidence from past groundwater pumping and future pumping. To implement this program, the STWMA, on behalf of the Watermaster, successfully applied for an AB303 Grant from the California Department of Water Resources (DWR).

The Subsidence Monitoring Program was established in 2005. Initially, ground level information for the 1928 to 2000 period was analyzed. In mid to late 2006, 72 benchmark monuments were installed across the Basin and in nearby basins and an initial ground-level survey conducted to establish the initial elevations of all benchmarks. A second survey was conducted in 2007. A comparison analysis of the two surveying efforts reveals little vertical change; in addition, this minimum subsidence was evenly distributed across the Basin. According to the program, the ground level survey of all benchmarks was to be conducted on a tri-annual basis with the next round of survey scheduled for the spring of 2009. The 2009 survey was not conducted by Watermaster since it was determined that the level of subsidence was minimal. No additional surveys are scheduled at this time.

Appendix A

Resolutions Adopted During CY 2023

RESOLUTION NO. 2023-01

A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER RECOGNIZING THE DESIGNATION OF A SPECIFIC AMOUNT OF OVERLYING WATER RIGHTS TO SPECIFIC PARCELS

WHEREAS, the Beaumont Basin was adjudicated by Judgment entitled *San Timoteo Watershed Management Authority v. City of Banning, et al.* (Riverside County Superior Court Case No. RCI 389197);

WHEREAS, on March 19, 2019, the Riverside Superior Court entered an Amended Judgment which currently operates to adjudicate water rights and imposes a physical solution over the Beaumont Basin;

WHEREAS, via RESOLUTION 2006-02, the Beaumont Basin Watermaster recognized the allocation of 300 acre-feet-per-year (AFY) of the 1,784 AFY of overlying water right to the Sunny-Cal North parcels, some 122 acres identified in the Amended Judgment's Exhibit D as Assessor Parcel Nos. 407-200-009, -011, and -012, and 407-210-001, -002, and -004;

WHEREAS, on December 31, 2020, via record Grant Deed, TSG Cherry Valley, L.P., a California limited partnership granted to Beaumont-Cherry Valley Recreation & Park Improvement Corporation, a California public benefit corporation all its rights, title and interest to Assessor's Parcel Nos. 407-200-009, 20.35 acres, 407-200-011, 20 acres, 407-200-012, 20.04 acres, 407-210-001, 45.41 acres, 407-210-002, 12.04 acres, 407-210-004, 4.16, representing a total transfer of 122 acres;

WHEREAS, on May 25, 2022, via recorded Grant Deed, Beaumont-Cherry Valley Recreation & Park Improvement Corporation, a California public benefit corporation granted to Beaumont-Cherry Valley Recreation and Park District, a special district in the State of California, its title and interest to Assessor's Parcel Nos. 407-200-013 (came from 407-200-011), 19.53 acres, a portion of 407-200-009, 18.35 acres, 407-200-014 (came from 407-200-012), 19.92 acres, 407-210-001, 45.41 acres, 407-210-002, 12.04 acres, 407-210-004, 4.16 acres, for a total of 119.41 acres; and

WHEREAS, on December 1, 2022, via recorded Grant Deed, I10 Logistics Owner, LLC granted to Beaumont-Cherry Valley Recreation & Park District, a special district of the State of California its title and interest to a portion of Assessor's Parcel No. 407-200-013, 27,067 square feet, or 0.62 acres;

WHEREAS, on February 6, 2023, via recorded Grant Deed, Beaumont-Cherry Valley Recreation & Park Improvement Corporation, a California public benefit corporation granted to Beaumont-Cherry Valley Recreation and Park District, a special district in the State of California, its title and interest to Assessor's Parcel No. 407-200-018 (the remainder parcel in 407-200-009), 2 acres.

WHEREAS, to facilitate the transfer of the requested 122 acres and accompanying Beaumont Basin water rights formerly held by Sunny-Cal North, as awarded under the Amended Judgment and confirmed by Exhibit D of the Amended Judgment as Watermaster Resolution No. 2006-02, the Beaumont-Cherry Valley Recreation and Park District (District) desires that Watermaster recognize a total water rights transfer of 232.4 AFY (300 AFY as reduced by 0.2254 (the amount of re-evaluation of the safe yield) as applied to the new parcel numbers identified in this Resolution, and, henceforth, placed in the District's name alone.

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

1. **Designation of Rights.** At the District's special instance and request, the Beaumont Basin Watermaster hereby recognizes the designation of 232.4 AFY of Sunny-Cal North's former Overlying Water Right to the District. Such 232.4 AFY of Overlying Water Rights shall henceforth be placed in the District's name alone or its transferee and will be designated for use on the Assessor Parcel Nos. identified this Resolution.
2. **Adjusted Right.** The District's Overlying Water Right of 232.4 AFY represents the original amount of Sunny-Cal North's 300 AFY of Overlying Water Rights as reduced by 0.2254, representing the reevaluation of safe yield, and, therefore, now totaling 232.4 AFY.
3. **Effect of the Amended Judgment on Successors and Assigns.** The Amended Judgment provides in Article VII.4, that the Amended Judgment "...shall be binding on and shall inure to the benefit of...successors and assigns of the parties."
4. **Further Documentation of Action.** The Chief of Watermaster Services is hereby authorized and directed to execute such further documents and instruments, and take such further action, as shall be reasonably required to carry out the purposes and intent of this resolution, including, without limitation, to acknowledge the transfer of the 232.4 AFY of Overlying Water Right allocated herein to the District to any purchaser of the designated Assessors Parcel Nos. set forth in this Resolution.
5. **Effective Date.** The effective date of this designation is June 7, 2023.
6. **Recording and Notice.** The Chief of Watermaster Services shall record this Resolution and shall mail a true, correct and complete copy as follows:

Beaumont-Cherry Valley Recreation & Park District
c/o Duane Burk, General Manager
390 W. Oak Valley Parkway, Beaumont California 92223.

PASSED AND ADOPTED this 7th day of June, 2023 by the following vote:

AYES: Ares, Armstrong, Hart, Jagers, Vela
NOES:
ABSTAIN:
ABSENT:

BEAUMONT BASIN WATERMASTER

BY: 

ART VELA, CHAIR
BEAUMONT BASIN WATERMASTER

AS14674.0865188 4875-1095-2546v1

Appendix B

Minutes for the Regular and Special Committee Meetings held in 2023

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, February 1, 2023**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave.
Beaumont, CA 92223

I. Call to Order

Chair Arturo Vela called the meeting to order at 11:00 a.m.

II. Roll Call

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

Hannibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (BBWM).

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart of Dudek was present as BBWM administrator.

Members of the public who registered and / or attended:

Jennifer Ares, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Lance Eckhart, San Geronio Pass Water Agency
Emmett Campbell, San Geronio Pass Water Agency
Matt Howard, San Geronio Pass Water Agency
Ron Duncan, San Geronio Pass Water Agency
Robert Ybarra, San Geronio Pass Water Agency
Mickey Valdivia, San Geronio Pass Water Agency
Thaxton Van Belle, City of Beaumont
Mark Swanson, Beaumont-Cherry Valley Water District
Robert Rasha, Beaumont-Cherry Valley Water District
Derek Hoffman

III. Pledge of Allegiance: *Chair Vela led the pledge.*

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes

December 7, 2022 Regular Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through January 16, 2023

C. A Comparison of Production versus Extraction Credits for Calendar Year 2022

It was moved by Member Zoba and seconded by Member Armstrong to approve the Consent Calendar.

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

VI. Reports

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

Mr. Blandon reported that the draft annual report will be ready for delivery at the April meeting. He advised that he is re-measuring lengths of communications cable.

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

Mr. Harder reported a hydrogeological data request from Samantha Adams of West Yost. He requested a formal letter. Chair Vela asked about the client; Mr. Harder could not recall. Mr. Stuart suggested it could be related to the computation for max benefits with the Santa Ana Watershed.

Harder advised he has requested data for the safe yield reset. The model used extends outside the adjudicated area, he noted. Data is needed outside of the adjudication but within the model boundary.

C. Report from Administrative Consultant – Steve Stuart, Dudek

Mr. Stuart prepared a list of items with which Dudek has been tasked. He said he added the well survey and development of a data management system. These will be good initial steps toward approaching some of the other tasks.

D. Report from Legal Counsel – Thierry Montoya, Frost, Brown, Todd

Mr. Montoya advised that on January 1, Alvarado Smith merged with the law firm of Frost, Brown, Todd. Representation of BBWM has not changed, he noted.

VII. Discussion Items

A. Consideration Reorganization of the Beaumont Basin Watermaster Committee - Chair, Vice Chair, Secretary and Treasurer

Recommendation: Either reaffirm the existing officers or conduct nominations for the appointment of new officers of the Beaumont Basin Watermaster

Mr. Zoba noted that there is a vacant position of Vice Chair due to the passing of George Jorritsma.

It was moved by Member Jagers and seconded by Member Armstrong to appoint the following officers:

- *Chair – Arturo Vela*
- *Vice-Chair – David Armstrong*
- *Secretary – Dan Jagers*
- *Treasurer – Joe Zoba*

and approved by the following vote:

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

B. Financial Status Report

Recommendation: No action required

Member Zoba recommended this item be placed on the Consent Calendar in the future. He pointed out the list of task orders and suggested discussion at the next meeting regarding deprogramming some of the funds in those that are no longer functional. Member Hart suggested review at least twice a year.

Chair Vela asked about rollover of the funds. Mr. Zoba confirmed funds are deprogrammed, participation of all five entities is verified, and are assigned as a credit to each account as the next task is approved.

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

Recommendation: Receive and file the Independent Accountant's Financial Report for the period ending June 30, 2022

Member Zoba explained that there is so little financial activity for this group, that an independent account's report is provided rather than an audit. He briefly reviewed the report.

It was moved by Member Jagers and seconded by Member Hart to approve the Independent Accountant's Financial Report for the period ending June 30, 2022 and approved by the following vote:

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

D. Request for Proposals for Licensed Surveyors to Survey Wells in the Beaumont Basin Monitoring Network

Recommendation: Consider issuing a request for proposals for the services of a licensed land surveyor to survey the locations and elevations of points of interest at wells associated with monitoring conditions in the Beaumont Basin

Mr. Stuart reported that measurements of water elevations at well points throughout the basin may be off by tens of feet and suggested performing a survey of the well points to improve accuracy of elevations, which would improve the accuracy of characterizing conditions in the Basin. He proposed drafting an RFP to be presented at the next meeting, then soliciting bids from professional land surveyors.

Chair Vela asked about budget. Mr. Stuart indicated that once it had been determined what to survey there would be a better idea of cost.

Member Armstrong advised he recently had a survey done. Member Jagers added that BCVWD has a survey consultant group that has worked for the District in the past and could provide elevations. He noted there are wells in vaults and a decision on where the survey marker sits would need to be determined. BCVWD may also like to perform this internally in order to be able to add other desired locations. Member Zoba indicated that YVWD could do the same and submit the data.

Jagers noted that the last bid solicitations have been made through the City of Beaumont public purchase portal. Mr. Stuart indicated Dudek would spearhead the activity.

Jagers emphasized consistency of data points and indicated BCVWD would be happy to do a benchmark elevation or have it done through the Watermaster. Chair Vela indicated support of the project and suggested a deadline in the next couple of months. Mr. Stuart will evaluate the data and determine any gaps or weaknesses to be addressed in the survey. Mr. Stuart, following the suggestion of Mr. Jagers, recommended obtaining existing survey information from all member agencies to evaluate the information in hand and identify where surveys are necessary. Mr. Stuart will request survey information from the member agencies.

Jagers also posited that it may be more expedient and cost effective to have the work managed and done by the Watermaster.

Member Hart asked about coordination with the San Geronio Pass Water Agency (SGPWA). Mr. Stuart suggested collaboration with SGPWA and the US Geological Survey (USGS) and collecting information from all involved.

Jagers pointed to monitoring wells drilled at the east side of the Basin under a grant via the San Geronio Pass Groundwater Sustainability Agency (GSA). Zoba suggested sending all available data to Dudek to start.

Chair Vela requested a list of all wells being considered and exactly what is being sought.

Chair Vela invited public comment. There was none.

E. Development of Data Management System

Recommendation: Consider authorizing Dudek to prepare a proposal to develop a GIS-based Data Management System for the Beaumont Basin

Mr. Stuart called attention to the importance of development of a data repository of all information collected in the Basin; not only groundwater elevation but production, climactic data, surface water inputs, and more in a GIS-based graphical interface that would be easy for everyone to access, view data, and get a quick assessment of conditions. The system could also be used to poll the data to generate reports. Dudek has developed these systems for other Groundwater Sustainability Plans as required by the Sustainable Groundwater Management Act (SGMA), he advised.

Member Armstrong asked what the system would offer that is not already being done, and about cost. Mr. Stuart explained the current data is in various files and formats, this system would bring all data together in one protected system accessible by members to view the information. Mr. Stuart explained that ESRI software would be used, and estimated \$50,000 total, including a workshop on use of the system.

Member Zoba shared that the Yucaipa SGMA has a database, and the USGS recently updated their website where he was able to pull up wells and track to show what is happening with the groundwater supply. He said he is an advocate of the proposed system; it is a great tool, and it is long overdue for this adjudicated basin. BBWM has fallen behind compared to other SGMA authorized basins, he noted. Hopefully, it could be expanded in the future to include water levels, spreading and injection activity, to provide a real-time picture of what is going on in the Basin rather than waiting for preparation of manual reports, he concluded.

Mr. Stuart noted that field staff with digital devices can incorporate data collected into the system.

Mr. Jagers requested the proposal include any ongoing three-to-five-year maintenance costs. He pointed out there are experts in the room who may want to be considered for the work. Member Hart said he is comfortable with the proposal as suggested by Mr. Stuart; it will still have to come back to the Committee for approval.

Member Zoba suggested it may be a step backwards to try to bring in a different consultant to try to scope out the need. There is a running head start with Dudek, he indicated. He suggested partnership with the SGPWA. Chair Vela acknowledged the overlap.

In response to questions from Chair Vela, Mr. Stuart said ESRI software makes it easy to transfer ownership and management of the system to BBWM. It is constantly upgraded and updated, and is fairly affordable and simple to run, he noted. He assured that reports will be easier to

run and the data more accessible. It also allows review of information together and to confirm that it is accurate and representative.

Chair Vela invited public comment. SGPWA General Manager Lance Eckhart advised the Committee that this is a modern tool that is needed in this Basin and is worth the effort. It takes different sources of data and brings them together in one place and can be seen almost in real time. It makes the job of managing the Basin easier, he stated, and said SGPWA would be happy to partner. He pointed out that the proposed system is used by the Yucaipa GSA and it would be convenient to have the same for the adjacent area versus learning an entirely new system, which would be less efficient.

In response to Chair Vela, Mr. Eckhart recommended moving forward collectively and transparently. He suggested a demonstration.

Member Jagers asked if it were a web-based platform that Dudek would host, Stuart indicated it was. Most agencies are using ESRI, it was noted.

Member Zoba suggested individual tours of the program.

It was moved by Member Zoba and seconded by Member Jagers and approved to authorize Dudek to prepare a proposal to develop a GIS-based Data Management System for the Beaumont Basin by the following vote:

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

VIII. Topics for Future Meetings

- A. Proposal and demonstration of GIS-based data management system
- B. Budget Update
- C. Monitoring of future west side well sites and methodologies, and potential collaboration with USGS
- D. Procurement Policy including thresholds for RFP process
- E. Evaluation of Storage Issues in the Basin (tabled from 12/2/2021 meeting)
- F. Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management

- G. Incidental discharge
- H. Development of a Recycled Water Policy
- I. Development of a return flow accounting policy

IX. Comments from the Watermaster Committee Members

Member Jagers drew attention to a USGS report distributed by Jason Uhley of Riverside County Flood Control regarding the Apple and Eldorado fires and risk of debris flows.

Member Jagers indicated that clean, clear water flows are being seen in the upper canyons that had not been seen in the recent drought. Thoughts are positive that the area is no longer in such a dire drought. The State Water Project is at 30 percent allocation this year. BCVWD has been working with SGPWA to resume bringing water down from the San Luis Reservoir as early as next week to start recharge.

X. Announcements

- a. The next regular meeting of the Beaumont Basin Watermaster is scheduled for April 5, 2023 at 11:00 a.m.
- b. Future Meeting Dates:
 - i. June 7, 2023 at 11:00 a.m.
 - ii. August 2, 2023 at 11:00 a.m.
 - iii. October 4, 2023 at 11:00 a.m.
 - iv. December 6, 2023 at 11:00 a.m.

XI. Adjournment

Chairman Vela adjourned the meeting at 11:46 a.m.

Attest:


Daniel Jagers, Secretary
Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, April 5, 2023**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave.
Beaumont, CA 92223

I. Call to Order

Vice Chair David Armstrong called the meeting to order at 11:02 a.m.

II. Roll Call

<i>City of Banning</i>		<i>ABSENT</i>
<i>City of Beaumont</i>	<i>Jeff Hart</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Jennifer Ares</i>	<i>Present</i>

Hannibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (BBWM).

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart of Dudek was present as BBWM administrator.

Members of the public who registered and / or attended:

Matthew Palavido, Dudek
Nyles O’Harra, Yucaipa Valley Water District
Allison Edmisten, Yucaipa Valley Water District
Mike Kostelecky, Yucaipa Valley Water District
Lance Eckhart, San Geronio Pass Water Agency
John Covington, Morongo Band of Mission Indians
Kevin Walton, San Geronio Pass Water Agency
Robert Ybarra, San Geronio Pass Water Agency
Mickey Valdivia, San Geronio Pass Water Agency
Thaxton Van Belle, City of Beaumont
Cenica Smith, Beaumont-Cherry Valley Water District
Evan Ward, Beaumont-Cherry Valley Water District
Derek Hoffman, Fennemore

III. Pledge of Allegiance: Vice Chair Armstrong led the pledge.

IV. Public Comments: *Member Jagers advised of an error in the title for Agenda Item F. The recommendation should indicate the amount of \$1,300.*

V. Consent Calendar

Vice Chair Armstrong pulled Item C for discussion upon request of Member Jagers.

A. Meeting Minutes

February 1, 2023 Regular Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through March 22, 2023

It was moved by Member Hart and seconded by Member Jagers to approve Consent Calendar items A and B.

AYES:	Ares, Armstrong, Hart, Jagers
NOES:	None
ABSTAIN:	None
ABSENT:	Vela
STATUS:	Motion Approved

C. A Comparison of Production versus Extraction Credits through February 2023

Member Jagers pointed to the report and asked for confirmation on the water transfers. He asked if the report included the transfers from Beaumont-Cherry Valley Water District to the City of Banning for January and February. Mr. Blandon explained that said transfer is reported annually in the January report and the adjustment was made at the end of the year; however, staff will be providing the information on a monthly basis moving forward.

Mr. Jagers advised that for January and February, BCVWD's production numbers suggest that about 155.35 acre-feet were transferred. Once that is done, a footnote might be appropriate, he stated.

It was moved by Member Jagers and seconded by Member Hart to approve Consent Calendar item C.

AYES:	Ares, Armstrong, Hart, Jagers
NOES:	None
ABSTAIN:	None
ABSENT:	Vela
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 a data request was sent out on February 1 as part of the safe yield reevaluation and model update. Some data from San Geronio Pass Water Agency (SGPWA) has been received. The project is at the last step and if there is any information on new wells constructed or pumping tests since 2012 within the model domain that includes the adjudicated area and just outside, it would help inform the model and it would be appreciated in the next couple of weeks.

- C. Report from Administrative Consultant – Steve Stuart, Dudek

Mr. Stuart updated the Committee on information received for the well survey. South Mesa Water Company has responded. He is seeking documentation from a licensed surveyor on survey elevations or well points/ reference points. He will re-send the email as a reminder, then move forward with assessing the information and determining whether to move forward with contracting the services of a licensed surveyor to fill in any data gaps.

Mr. Jagers reported that BCVWD has reached out to a surveyor to perform the work and the cost appears to be reasonable.

Mr. Stuart advised he will be working with Tom Harder and Hannibal Blandon to put together an agenda for a July workshop, for committee review at the June meeting and in time for public notice / invitation. The workshop would focus on storage issues in the basin and looking at possibilities in enhancement of management of the basin such as establishing management zones.

Mr. Jagers asked that the overlies be invited to the workshop and indicated he would share the List of Interested Parties.

D. Report from Legal Counsel – Thierry Montoya - Frost, Brown, Todd

Mr. Montoya reported receipt of a Public Records Act request from West Yost seeking records that Mr. Harder likely retains. This is agendaized as Item VII – F as it will take work to pull the records and Mr. Harder should be compensated for the effort.

Item VII – C is a request from Beaumont-Cherry Valley Recreation and Park District to transfer some amount of water rights formerly owned by Sunny Cal / Danny Thomas Ranch, and there is some clarification on the issue.

South Mesa Water Company has an alternate candidate, Montoya announced, and Mr. Armstrong introduced Brittany Lim who is the SMWC alternate on the Yucaipa SGMA.

VII. Discussion Items

A. Certification of Groundwater Production, Imported Water Spreading, and Change in Storage in the Beaumont Groundwater Basin during Calendar Year 2022.

Recommendation: Certify groundwater production, imported water spreading, and change in storage in the Beaumont Groundwater Basin during CY 2022.

Member Jagers reminded that upload of the data was required by April 1 and BCVWD has done so.

It was moved by Member Jagers and seconded by Member Ares to certify groundwater production, imported water spreading, and change in storage in the Beaumont Groundwater Basin during CY 2022 and approved by the following vote:

AYES:	Ares, Armstrong, Hart, Jagers
NOES:	None
ABSTAIN:	None
ABSENT:	Vela
STATUS:	Motion Approved

B. 2022 Consolidated Annual Report and Engineering Report – Presentation of Draft Report

Recommendation: Presentation only. No action required.

Mr. Anibal Blandon of ALDA Engineering presented the draft consolidated annual report. He highlighted the following components:

- Nine resolutions were adopted by the BBWM in 2022; eight of them were for authorizing public meetings to be held in person and via teleconference.*
- Resolution 2022-09 amending Section 3 of the Rules and Regulations*
- No legal rulings related to the Judgment in 2022*
- FY 2023 approved budget is \$246,800; expenses in 2021 and 2022 were approximately \$110,000*
- Historical precipitation from 1998 to 2022 averaged 13.4 inches, significantly lower than the 100-year average of 16.68 inches*
- In 2022, precipitation was only 6.79 inches, the second lowest ever*
- Groundwater production by appropriators in 2022 was 17,345 acre-feet, about 900 af higher than the five-year average*
- Overliers are on a slight upward trend and produced a total of 2,135 af in 2022 which was higher than the five year average of 2,001 af but less than the production right of 6,517 af*
- The highest use overliers are Sharondale Mesa HOA, Cal Oak Valley Golf and Resort, Plantation on the Lake, and Tukwet Canyon Golf Club. None of the overliers are at risk of pumping more than their allocations*
- Imported water spreading in 2022 totaled 1,811 af, mostly by BCVWD*
- Overall, since 2003, 127,000 af have been spread primarily by BCVWD and the City of Banning*
- City of Beaumont treated wastewater discharges were 14 percent lower than the peak in 2020*
- In 2022, there were no transfers of water between appropriators*
- Conversion of underproduction to 2022 credit totals 4,296 af*
- A total of 183.05 af have been permanently transferred from Oak Valley Partners to YVWD*
- In 2022, 11,055 af were produced from storage (which is an accounting number)*
- Overall, 290,000 af were allocated to storage, of which only 96,000 remain in storage at the end of 2022*
- Underproduction by overliers to be allocated to appropriators in 2027 totals 4,382 af*

Members commented on the record rainfall so far in 2023 and lower anticipated production for the year.

Mr. Tom Harder discussed the 2022 operating safe yield. He described the hydrogeology and potential Basin management zones, and decline in groundwater levels from December 2021 to December 2022. He noted a year-to-year decline in storage of about 10,600 af which matches precipitation conditions and increased pumping.

Member Jagers observed that BCVWD did not pump Well 29 at all in 2022 in an attempt to balance the Basin and pump down the mound created in 2017-2019. He also noted it would be interesting to see the effects of a lot of grading activities in the area of Calimesa and Fairway Canyon on water recharge.

Mr. Harder reported long term declines in groundwater levels at several wells and advised that the Singleton Ranch well has been destroyed.

Annual operating safe yield is based on production, change in storage, and groundwater recharge (normally 11,000 to 12,000 af), Harder explained. Imported water deliveries in 2022 totaled only 1,800 af, he stated, and the operating safe yield for 2022 was around 7,000 af, contrasted with 7,900 in 2021. The long-term safe yield per the previous estimate using the model was 6,700 af.

In response to comment by Member Jagers, Mr. Harder noted that the plan to survey groundwater reference point elevations was based on a number of issues with some of the monitoring wells that affected the change in storage. Some of the previous years' operating safe yield numbers are not as reliable, he added. The model and long-term safe yield will be updated, he advised.

When the water table is drawn down, water that would otherwise have left the Basin is captured, Harder continued, which may be why the operating safe yield is higher than it had been. When water is mounding, safe yield can go down, he added.

Member Jagers expressed hope that the safe yield would increase.

Member Armstrong asked if the management zones would affect storage accounts. Mr. Harder explained all would have to add up to the whole; it is just a matter of managing different areas differently.

Member Jagers reported that it has been observed that high groundwater based on this year's wetness is now percolating in areas via artesian flows in the southwest portion of the Basin.

Mr. Blandon presented the data on water quality and offered the following recommendations:

- Develop policy to account for groundwater storage losses, new yield, and recycled water recharge (carried for several years, hopefully to be addressed at a workshop in July)*
- Develop protocol to increase accuracy and consistency of data reporting*
- Implement a meter maintenance program to reflect accurate production*

- *File final Annual Report with the Court in June once approved*

Mr. Blandon requested comments by Friday, May 12 in order to be addressed at the June 7 meeting. Comments will be included as an Appendix to the Final Report.

C. Transfer of Water Rights to Beaumont-Cherry Valley Recreation and Park District

Recommendation: No recommendation

Mr. Stuart advised that via donation from a developer, the Beaumont-Cherry Valley Recreation and Park District (BCVRPD) is acquiring six parcels formerly collectively known as the Sunny Cal North on the 2006-02 resolution. At the time, the Sunny Cal Egg and Poultry Company transferred 300 acre-feet per year of water rights to Sunny Cal North. After the 2013 revision of the safe yield that number became 232.4 af per year, which is acknowledged in the letter. He also acknowledged that the area of the Sunny Cal North property is 123 acres, which includes the 122 acres of Sunny Cal North plus one acre of the I-10 Logistics.

The numbers check out, Stuart reported. He requested more time to investigate the supporting documents and deeds which note that portions of the parcels are not part of Sunny Cal North.

Legal Counsel Montoya advised that there is still uncertainty and when approved, it should be done by resolution as has been in the past. The resolution will include an explanation of transfer, identify the APNs and the amount of water that is transferred from who to whom. He emphasized the need to create a clear public record.

Vice Chair Armstrong tabled the item to be brought back as a resolution at the June meeting. Mr. Jagers recommended assuring alignment with the adjusted safe yield.

D. Update on Well Survey Project and Request for Proposals for Licensed Surveyors to Survey Wells in the Beaumont Basin Monitoring Network

Recommendation: No recommendation.

Vice Chair Armstrong reminded the Committee of previous discussion.

Mr. Stuart indicated he is seeking more information from YVWD, BCVWD, City of Beaumont, and City of Banning.

If data is needed from City of Beaumont wells, they can be included in the BCVWD survey, Mr. Jagers noted.

E. Development of Data Management System

Recommendation: Consider the proposal from Dudek to develop a GIS-based Data Management System for the Beaumont Basin

Mr. Matthew Palavido of Dudek demonstrated a web-based application consisting of a GIS / map-based interface for information on wells.

Member Jagers reminded that the five BBWM members will share the costs of approximately \$9,179 each plus ongoing maintenance costs of \$13,695 annually. There are no escalators, Mr. Palavido noted. Most of the annual cost is for the ESRI licensing, which is typically escalated every five years or so and ESRI just escalated their licensing fee this year.

Members discussed taking this item to their Boards. It will be brought back again when the City of Banning is in attendance.

F. Approval of Expenditures related to Public Records Act Request

Recommendation: Approve the expenditure of \$1,300 to Thomas Harder & Company to prepare and furnish public records to the Santa Ana River Watershed Project Authority (SAWPA)

Member Jagers explained that some records may not be readily available and suggested discussion of preauthorization of a not-to-exceed amount to facilitate timely response to PRA requests. Mr. Harder indicated that would be helpful and said he could produce the requested records in about one week.

This request is related to the reassessment of SAWPA's groundwater activities, Jagers continued. Member Hart questioned the designation of a PRA request and said if it is not, then the requester should be footing the bill for the efforts required.

Mr. Harder explained the content of the request for groundwater levels, which will take some effort to put together but is not significant. Mr. Jagers recommended the shortest path to provide the information in support of SAWPA's groundwater management monitoring activity and in the spirit of cooperation.

Counsel Montoya clarified that SAWPA is entitled to the documents, and this is a question of reimbursement of Mr. Harder's time. Mr. Hart indicated support.

It was moved by Member Jagers and seconded by Member Hart to approve the expenditure of \$1,300 to Thomas Harder & Co. to prepare and furnish public records to the Santa Ana River Watershed Project Authority (SAWPA) and was approved by the following vote:

AYES:	Ares, Armstrong, Hart, Jagers
NOES:	None
ABSTAIN:	None
ABSENT:	Vela
STATUS:	Motion Approved

Mr. Harder will send out the requested information.

VIII. Topics for Future Meetings

- A. Monitoring of future west side well sites and methodologies, and potential collaboration with USGS
- B. Procurement Policy including thresholds for RFP process
- C. Evaluation of Storage Issues in the Basin (tabled from 12/2/2021 meeting)
- D. Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management
- E. Incidental discharge
- F. Development of a Recycled Water Policy
- G. Development of a return flow accounting policy

IX. Comments from the Watermaster Committee Members

None.

X. Announcements

- a. The next regular meeting of the Beaumont Basin Watermaster is scheduled for June 7, 2023 at 11:00 a.m.
- b. Future Meeting Dates:
 - i. August 2, 2023 at 11:00 a.m.
 - ii. October 4, 2023 at 11:00 a.m.
 - iii. December 6, 2023 at 11:00 a.m.

XI. Adjournment

Vice Chair Armstrong adjourned the meeting at 12:32 p.m.

Attest:



Daniel Jagers, Secretary
Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, June 7, 2023**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave.
Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:01 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Jeff Hart</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Jennifer Ares</i>	<i>Present</i>

Hannibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (BBWM).

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart of Dudek was present as BBWM administrator.

Members of the public who registered and / or attended:

Nyles O’Harra, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Lance Eckhart, San Gorgonio Pass Water Agency
Emmett Campbell, San Gorgonio Pass Water Agency
Matt Howard, San Gorgonio Pass Water Agency
Ron Duncan, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio Pass Water Agency

III. Pledge of Allegiance: Chair Vela led the pledge.

IV. Public Comments: None.

V. Consent Calendar

Chair Vela pulled Item C for discussion upon request of Member Jagers.

A. Meeting Minutes

April 5, 2023 Regular Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through May 16, 2023

D. Financial Status Report

It was moved by Chair Vela and seconded by Member Hart to approve Consent Calendar items A, B, and D.

AYES:	Ares, Armstrong, Hart, Jaggars, Vela
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

C. A Comparison of Production versus Extraction Credits through April 2023

Member Jaggars pointed to the Table in the staff report and noted that it includes items that will be discussed under Item VII-B on the agenda related to transfers of overlie water rights from Oak Valley Partners (OVP) to YVWD. He recommended discussion on the amount credited and footnote 1 in the table prior to approval.

Mr. Blandon provided information. He noted that the 2023 final amount credited will be at the end of the year once it is known how much water YVWD has delivered to the parcels. Alternatively, if the 790.3 acre-feet (af) has been accepted as of 2022, YVWD would have at least 790.3 af in 2023, he stated.

Chair Vela indicated that the item could be corrected at the next meeting and made a motion to accept the report.

It was moved by Chair Vela and seconded by Member Hart to approve Consent Calendar item C.

AYES:	Ares, Armstrong, Hart, Vela
NOES:	Jaggars
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved 4-1

VI. Reports

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

Mr. Blandon reminded that at the April meeting, it had been requested to include the total amount of production by BCVWD and amount delivered to the City of Banning, and this has been done.

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

Mr. Harder reported:

- 1. Response to the data request from West Yost regarding a study they are doing for SAWPA was provided on April 20, 2023.*
- 2. The model for the safe yield calculation has been completed the process of calibrating the model has begun. By the end of the month, field analysis should begin.*
- 3. Contact has been made with Terry Erlewine from Provost & Pritchard, which was recently awarded a grant to install some monitoring wells. One of the wells would be near Banning on the east side of the fault between the Beaumont Basin and downstream basin and would provide valuable information. There will be a meeting between Mr. Harder and Terry Erlewine in July.*
- 4. Storage change in the basin is recalculated each year for the annual report. The Watermaster is on a calendar year, and the State required reporting under SGMA is on the water year – October 1 to September 30. To prepare the annual report due April 1 is challenging. He proposed preparing the storage change map for the water year for the State and preparing a second storage change map for the calendar year for the Watermaster. No change in budget is anticipated, but the data request would come to the members in October rather than January. There were no objections.*

C. Report from Administrative Consultant – Steve Stuart, Dudek

Mr. Stuart reported that he is working with Mr. Blandon and Mr. Harder to develop a timeline to address all the BBWM open topics and to look at setting some deadlines. It will be presented for consideration at the next meeting.

D. Report from Legal Counsel – Thierry Montoya - Frost, Brown, Todd

Mr. Montoya reported that a motion to add alternate members for South Mesa Water Company and the City of Banning is set for hearing at Riverside Superior Court Department 5 that has jurisdiction over the

amended judgment set for June 13 at 8:30 in the morning. He expects that the requirements for members and alternates have been met to be presented to the BBWM.

Mr. Montoya stated that Steve Stuart has been very helpful regarding the Forms 5 for water transfers to the Beaumont-Cherry Valley Recreation and Park District. He will talk about discussions on this item later in the agenda.

VII. Discussion Items

A. Consideration of the Watermaster Budget for Fiscal Year 2023-24.

Recommendation: Approve the Budget for Fiscal Year 2023-24.

Chair Vela noted the recommendation is for approval of a budget for fiscal year 2023-2024 of \$36,950. Year to date expenses total \$17,934.

It was moved by Member Ares and seconded by Member Jagers to approve the Watermaster Budget for Fiscal Year 2023-24 and the motion was approved by the following vote:

AYES:	Ares, Armstrong, Hart, Jagers, Vela
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

B. Resolution 2023-01: Recognizing the Designation of a Specific Amount of Overlying Water Rights to Specific Parcels (Transfer of Water Rights to Beaumont-Cherry Valley Recreation and Park District)

Recommendation: Adopt Resolution 2023-01.

Dudek consultant Mr. Steve Stuart explained the resolution transferring water rights between the former Sunny Cal North parcels to the new owner, the Beaumont-Cherry Valley Recreation and Park Improvement Corporation and then to the Beaumont-Cherry Valley Recreation and Park District (BCVRPD). The parcels to which the water rights were transferred per Resolution 2006-02 were identified, and those corresponding parcel numbers are now being transferred to the BCVRPD and correspond with the parcels identified in Exhibit B of the judgment. With the revised safe yield, the water right of 232.4 af per year will be transferred from the Sunny Cal North parcels to BCVRPD.

Mr. Jagers noted that this action is informed by how the BBWM has previously done reassignments of transfers. He acknowledged the work done on this item.

It was moved by Member Jagers and seconded by Member Hart to adopt Resolution 2023-01 Recognizing the Designation of a Specific Amount of Overlying Water Rights to Specific Parcels (Transfer of Water Rights to Beaumont-Cherry Valley Recreation and Park District) by the following vote:

AYES:	Ares, Armstrong, Hart, Jagers, Vela
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

C. Transfer of Overlying Water Rights from Oak Valley Partners to Yucaipa Valley Water District

Recommendation: Receive and file or direct staff as desired

Mr. Stuart provided some background on the transfer of all Oak Valley Partners (OVP) water rights to a select number of parcels they owned for the Summerwind Ranch project via Resolution 2017-02. When water service was provided to the Summerwind project parcels by YVWD, then transfer of those water rights would be to YVWD. Subsequently, YVWD filed documents transferring water rights in 2018 and 2019 for specific tracts. Resolution 2019-02 created the Form 5 which documented the transfer of overlying water rights from an overlier to an appropriator and acknowledged that the transfer of water rights would only occur when the water was provided to that particular overlier.

YVWD filed a Form 5 in November 2019 acknowledging the complete transfer of OVP rights to YVWD associated with the parcels of the Summerwind Ranch project. Litigation in 2021 confirmed the overlying water rights are transferred to the appropriator when that water is provided to the overlier and only for that amount at that time, per the judgment.

In 2023, YVWD submitted five Forms 5 representing transfers from 2018 to 2022 documenting the following transfers based on the water served to OVP and the parcels associated with Resolution 2017-02:

IFYJ	FHWJ&JJY	YWFHY ST3
84764756=	>53>9	87<57 fsi 87<572:
<47<4756=	:>3>	87<>7& fsi 87<5727
>47;4756=	7>3:<	87<572&
64664756>	73; :	8865:2;

The cumulative total is 790.38 af from OVP to YVWD, Stuart concluded.

Legal Counsel Thierry Montoya reminded that with transfer from an overliar to an appropriator, the appropriator agrees to provide water service to the overlying properties. The total numbers, as confirmed by Dudek, have transferred over. There are various Forms 5 that take over for the previous 180.4 af that were transferred prior to the litigation. There are water service letters from YVWD stating service has been provided and signatures on the Forms 5 from OVP that they have accepted water service.

Montoya said he confirmed with Member Zoba of YVWD that the water service provided was for the parcels identified in Resolution 2017-02. Mr. Zoba was not aware of OVP owning any of the property within his jurisdiction, but the water service went to all the parcels identified in Resolution 2017-02. Member Ares confirmed the parcels are being served.

The balance of OVP's water rights as having transferred to YVWD as adjusted add up, Montoya continued. There is clear accounting on the BBWM side and also protection for YVWD in case of a claim by an overlying party, and seems to meet the requirements of the amended judgment, he said, and recommended the transfer be approved.

Chair Vela noted that the documentation did not indicate specific phases or tracts being served. He said he would like to confirm that the water delivered is outside of the tracts noted in previous Forms 5 and these are new developments for which transfers have not been accepted. Montoya said it was his understanding that development continued, and this is additional water provided by YVWD for the service of the remaining undeveloped parcels. He pointed out that "water service" is not narrowly defined in the amended judgment, and it may also include recycled water for the benefit of the parcels. This is for the balance of OVP's water rights. Mr. Montoya added that during the litigation, Mr. Zoba had declared that YVWD will use all of OVP's water rights, at OVP's request, because they will need it for their development. Ms. Ares referred to the chart shown above with tract numbers. Vela cautioned

against double counting. Ares suggested a future agenda item to refine the process for beginning to end.

Member Jagers asked for clarification on an adjustment of transfers from 2018. Mr. Stuart indicated that the 0.2 af was in lieu of the previously presented requests.

Member Jagers acknowledged Member Ares' request to refine the process, and posited that the process of transfers needs to be a complete process. He reminded about the passage of AB 1668 and SB 606 requiring reduction in per capita water use per house, and pointed out that there may be potential to be oversupplying water. He said he would like confirmation that figures are a true accounting of water supply over the period and pointed out they could include water consumption related to grading activities.

Previous rules and regulations under Section 7 required accounting to be done every year, but that was deleted at the proposal of Member Zoba, Jagers reminded. He said he now questions whether this will be accurate moving through time given the legislation and reductions in total water supply, and having grading activities aggregated in when the grading process may consume more than some future building or housing. He said he prefers the method where it is known where the water goes and approximate amounts, and there is a handle on it rather than general aggregate activities.

As a minimum, Jagers suggested, the BBWM should have discussion on quantities, as this does not follow the outline set forth in Resolution 2017-02. Further, previous Forms 5 already filed are being duplicated and there is some confusion, he said.

In response to Member Ares, Member Jagers said he did not think the submittal follows the past process and clarifications are needed before receiving and filing. He added that it does not follow the form of Resolution 2017-02 as was previously done. He recalled previous discussion with legal counsel regarding perfection of transfer rights and filings were approved based on the anticipation of the action within a certain period. This is a different thing, he noted.

Member Ares noted this is a matter of interpretation, and the intention / goal moving forward was for informational purposes only, as the recommendation is to receive and file, not to approve.

Member Jagers emphasized clarity; that what was being received and filed was understood. He reiterated that the process now being followed is not what was done previously, which was created to comply with Resolution 2017-02.

Chair Vela acknowledged the difference in process and that the document does not identify the specific phase to which water was delivered as identified in the Resolution. If it had been clear in the correspondence to what phase of development the water was being provided, then the question is whether the water being delivered is associated with those tracts which the transfers had been previously accepted. He reiterated the potential for double counting.

Member Ares suggested agendizing the process discussion at a later meeting and confirmed that these requests supersede the previous.

In response to Member Jagers, Mr. Blandon indicated he confirmed with Mr. Zoba that there was not an addition.

Member Jagers posited that the current Forms 5 do not provide the information as required by Resolution 2017-02 and requested clarity. He stated that his preference would be to follow the form of that resolution. If there is desire to deviate from it the resolution should be amended, he said.

Chair Vela indicated that he had not picked up that the 790.3 supersedes the previous transfers and those do go away and now there is a total transfer of 790.3 acre-feet. Mr. Blandon discussed how that might be reflected in the annual report. Chair Vela stated there must be a way to streamline this and assure the accounting is as accurate as possible. He noted the challenge of physical confirmation of the transfer taking place when the water is delivered, and said the BBWM should consider some level of confirmation.

Chair Vela invited public comment. There was none.

Member Ares moved to receive and file the fully executed Form 5 document for calendar years 2018, 2019, 2020, 2021 and 2022. There was no second.

Member Jagers offered a substitute motion to receive and file the Form 5 as provided by YVWD with further documented clarification of the rescission of the previous requests for water rights transfers, and further discussion, resolution, and adherence to the format of Resolution 2017-02. The motion was seconded by Member Armstrong and was approved by the following vote:

AYES:	Armstrong, Hart, Jagers, Vela
NOES:	Ares
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved 4-1

D. 2022 Consolidated Annual Report and Engineering Report – Presentation on Comments Received on Draft Report

Recommendation: That the Watermaster Committee Consider Approving the 2022 Annual Report after Comments Received on the Draft Report are Presented and Discussed

Mr. Blandon reviewed comments received by BCVWD.

Mr. Blandon noted that the impact of YVWD's Form 5 submittal would be documented in the final report, and detailed the revisions by section and table. Mr. Blandon asked for guidance given the discussion and motion under the previous agenda item. In response to Chair Vela, Mr. Blandon indicated it is not imperative to have the annual report approved at this meeting.

Chair Vela advised to hold off on those sections until further discussion. Member Jagers and others concurred.

Mr. Blandon continued the presentation and provided a brief summary of storage accounts.

Chair Vela tabled the item to the next meeting. Mr. Blandon requested agencies submit any further comments by mid-July.

Chair Vela commented on a table regarding water imported by Banning using BCVWD's facilities.

E. Proposal for Development of Data Management System

Recommendation: Consider the proposal from Dudek to develop a GIS-based Data Management System for the Beaumont Basin

Mr. Stuart reminded of the presentation of the proposal at the May meeting without a representative of the City of Banning present. Two members also intended to present the proposal to their respective boards, he noted.

Chair Vela indicated support and noted there is benefit and value for the cost.

Mr. Lance Eckhart, general manager of the San Geronio Pass Water Agency (SGPWA) professed support. He noted that the Groundwater Sustainability entities on either side have developed data management systems as part of their ongoing reporting to the state. "if you can't measure it, you can't manage it," he stated. The data is important, and

having all look at the same thing at the same time with the same tools will be fundamental to good management of the basin, he posited. He recommended the SGPWA participate with an equal share with the Watermaster members.

Chair Vela invited public comment. There was none.

It was moved by Member Jagers and seconded by Chair Vela to approve the proposal from Dudek to develop a GIS-based Data Management System for the Beaumont Basin with equal cost share between the BBWM members and the SGPWA was approved by the following vote:

AYES:	Ares, Armstrong, Hart, Jagers, Vela
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

F. Update on Well Survey Project and Request for Proposals for Licensed Surveyors to Survey Wells in the Beaumont Basin Monitoring Network

Recommendation: No recommendation.

Mr. Stuart explained this is an update to the information presented at the last meeting. So far, information has been received only from SMWC, he reported. Member Jagers explained that BCVWD has contacted one of its contractors to obtain the data in short order.

Mr. Eckhart said he wanted to make sure that even if there is additional cost that SGPWA is plugged in with whomever is used for the data to assure that they are synced up and calibrated with the network.

G. Discussion of Agenda Items for Proposed July Special Meeting / Workshop

Mr. Harder reminded the Committee about an October 2021 presentation on storage and storage balances and comparison to the physical condition of the basin. Issues raised were:

- Per the judgment, this basin in the first 10 years had a ramp up of its allowable storage, which is inconsistent with physical storage in the basin, and there was concern that pulling that water out could create impacts.*
- To date, there has been no accounting for Basin storage losses, but a study has shown that those are occurring in certain areas, and this should be done.*

A workshop was held in March 2022 and a follow up workshop is recommended in July to begin to articulate some of the issues, Harder advised. He recommended discussion regarding:

- Production from Storage Accounts that prevents impact*
- Possible delineation of management zones in the Basin*
- Preliminary identification and prioritization of other issues to address*
- Development of the Committee's vision for the Basin*
- Identify next steps*

A next workshop would be agendaized to carry forward, Harder noted. Ultimately, he said he would look at development of a plan to address the issues, and execution of the plan.

Chair Vela said he appreciated the effort to add these items to the workshop agenda.

Member Jagers reminded that the prior report had identified some current losses from the Basin and recalled that based on more extraction in certain areas might change those conditions. He asked about further refinement of the model and discussion of new SGPWA recharge facilities. Mr. Harder said he did not envision analysis, but more of a big picture of what happens in terms of extraction and the way the Basin is operated. He recommended articulation of issues and identification of impediments to addressing those issues, and figuring out what to do to analyze it and arrive at an informed policy.

Mr. Jagers asked for philosophical ideas that can be developed moving forward.

Mr. Hart recommended, as part of any policy decisions that affect the region, discussion about the structure of the BBWM itself, and whether there is benefit or desire to have an elected representative from each agency with the existing primary representative serving as an alternate, or a technical advisory committee to the electeds. He recognized the stipulations for specific background and experience but not all are identical.

VIII. Topics for Future Meetings

- A. Monitoring of future west side well sites and methodologies, and potential collaboration with USGS
- B. Procurement Policy including thresholds for RFP process
- C. Evaluation of Storage Issues in the Basin (tabled from 12/2/2021 meeting)

- D. Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management
- E. Incidental discharge
- F. Development of a Recycled Water Policy
- G. Development of a return flow accounting policy
- H. Update on SGPWA water supply portfolio

IX. Comments from the Watermaster Committee Members

None.

X. Announcements

- a. Special Meeting / Workshop to be scheduled in July
- b. The next regular meeting of the Beaumont Basin Watermaster is scheduled for August 2, 2023 at 11:00 a.m.
- c. Future Meeting Dates:
 - i. October 4, 2023 at 11:00 a.m.
 - ii. December 6, 2023 at 11:00 a.m.
 - iii. February 7, 2024 at 11:00 a.m.

XI. Adjournment

Chair Vela adjourned the meeting at 12:21 p.m.

Attest:



Daniel Jaggers, Secretary
Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Special Meeting
Thursday, July 13, 2023**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave.
Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 2:01 p.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Jeff Hart</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joe Zoba</i>	<i>Present</i>

*Hannibal Blandon and Thomas Harder were present as engineers for the
Beaumont Basin Watermaster (BBWM).
Steve Stuart of Dudek was present as BBWM administrator.*

*Members of the public who registered and / or attended:
San Geronio Pass Water Agency General Manager Lance Eckhart*

III. Pledge of Allegiance: Chair Vela led the pledge.

IV. Public Comments: None.

V. Workshop / Discussion Items

- A. Development of the Committee's vision for the Basin
- B. Production from Storage Accounts that prevents impact
- C. Possible delineation of management zones in the Basin
- D. Preliminary identification and prioritization of other issues to address
- E. Identify next steps

Mr. Steve Stuart explained that consultants had reviewed topics for discussion. This is a great start to talk about some of these important items and begin moving forward, he noted.

Stuart provided some detail on meeting discussion points to go through the issues in a more open environment:

- Vision for the Watermaster*
- Production from storage accounts to prevent impact*
- Accumulation of water available to the different appropriators in their storage accounts versus what has been measured in the Basin, the discrepancy between the two, and how to reconcile those accounts to manage the basin*
- Possible delineation of two or three management zones to help enhance management of groundwater resources and to develop approaches in achieving better management*

This will be the first meeting in a short series, he noted.

Vision for the Watermaster

Mr. Stuart reviewed the stipulated judgment physical solution and the Watermaster mission statement:

Watermaster's mission is to manage the yield of and storage within the Beaumont Basin to provide maximum benefit to the people dependent on it.

He suggested a vision statement to lead how the Watermaster may perceive its role in the future, and how to manage the Basin, and presented components for consideration.

He recommended developing a plan that will help guide the Committee from where it is today to where it should be in the near future.

Chair Vela suggested coming back to the mission statement.

Production from Basin Accounts that Prevent Impacts

Mr. Harder refreshed the Committee's memory on prior discussion (October 2021) regarding discrepancy in storage accounts and the increase in storage accounts via the judgment.

He indicated concern about the pumping out of all water in storage at the same time which could lead to visible impacts / undesirable results. However unrealistic, there must be management guidelines prepared to avoid that.

Harder stated that the change in storage has not changed much, and overall, the Basin looks pretty good. However, on the west side, the

change in storage has been negative compared to the east side. He provided a map of basin conditions, positing that artificial recharge is propping up groundwater levels on the east side.

Member Jagers indicated that on the west side of the faults, BCVWD Well 29 was shut off in an effort to extract from the east side and move water to the west. He discussed groundwater averages and pointed to return flow that may be beneficial in the long term.

Mr. Harder emphasized balance. Member Armstrong asked about water quality implications. Mr. Harder replied there are none known.

Mr. Harder prompted the Committee to discuss where to go from here.

Member Zoba responded with a suggestion to change the graph representing the Comparison of Appropriator Storage Accounts and Physical Storage Change Estimates. It is not a matter of closing the gap, he stated, but of refilling the change in storage to get back to zero, at the point of adjudication. If all storage accounts are fulfilled or depleted, the Basin probably can't handle it, he noted. Mr. Harder agreed, saying it is more toward creating an impact locally and whether the management will have undesirable results. Per the judgment, that water can be pulled out if it were physically possible, he noted.

Mr. Zoba discussed the potential management zones and expressed concern about production impacts. He pointed out that the storage accounts have signaled to the development community that there is plenty of water available, when water levels have dropped. Mr. Harder noted that the concept of management zones was about management actions: identifying things to make the west side more sustainable.

Member Jagers described BCVWD actions to address the imbalance on the west side. Recharge will likely be needed on the west side, he noted.

Mr. Harder advocated for an optimum Basin management plan that follows the vision of the Committee and includes projects and management actions.

Discussion returned to the graph. Chair Vela suggested discussion of comfort level with being below the zero line. Mr. Harder said the model is available to answer questions. Members provided concepts of what the graph represents, current conditions, sustainability, and potential management actions.

Mr. Harder agreed with Member Zoba that serious action to correct the deficiency should be taken.

Possible Delineation of Management Zones

Mr. Harder presented the proposal for two management zones based on the difference in hydrogeology, and the advantages and disadvantages. Harder and Member Jagers pointed out some complications that would need to be addressed.

Member Jagers noted the positive effects of groundwater recharge activities and said the Basin probably needs more than one opportunity for that to happen.

Preliminary Identification and Prioritization of Issues

Harder stated the Committee would benefit from a vision and a management plan which identifies these issues and how to address them. These would be topics for the next workshop. He recommended developing a preliminary idea of which are most important and should be focused on at the next meeting.

Chair Vela recommended continued discussion of storage losses as low hanging fruit, as work has already gone into analysis, and most were in agreement. It is just missing the next step regarding implementation.

Member Jagers noted that all are intertwined and recommended a big picture approach, looking at everything in order to have as healthy a Basin as possible. He suggested mechanically managing in the short term while recharge is built on the west side.

Member Zoba pointed to the SGMA process as a logical way to determine if the Basin is sustainable. He said he would be interested in an exercise to look at SGMA requirements and where the Beaumont Basin would fall short based on where it is today. Vela concurred.

SGPWA General Manager Lance Eckhart suggested including historic underflows and said it was important to recognize the adjacent Groundwater Sustainability Agency (GSA). He noted that maintaining groundwater levels and gradient is doing what has always been done, and cautioned about another adjudication. "All models are wrong, some models are useful," he noted. Management actions also ride along with climate issues, he added.

Recharge has been working, Eckhart continued. He talked about location of recharge and extraction. Part of the plan should be production wells and a capture zone to manage the eastern boundary and make sure that the historic underflow is maintained. This might include shared production facilities, he noted. Eckhart stated he did not want to see a disincentive on importing water.

Chair Vela stated that today was not the right time to finalize the vision. He suggested it may be worthwhile to tie in the judgment, as the Committee operates in an irregular system as far as compliance with the judgment which gives certain allowances, and that may not mirror the mission statement. He pointed out that looking at the graph next to the mission statement, the BBWM would not be meeting the goal, although the judgment has allowed that.

Member Armstrong requested the agenda packet be distributed earlier in order to have a productive conversation.

Member Jagers commented on BCVWD's efforts to manage the balance through the drought. All of the actions, like sharing water opportunities with Banning, wheeling water to the west side, delivering pipelines, and extracting it in places to balance the Basin are things to talk about, he said. Mr. Harder said it sounds like all of that is in the mix already, and the question would be whether those are watermaster things. Jagers pointed out there is one physical solution.

Harder suggested working with Mr. Blandon to prepare an outline of the SGMA process and applying it to the Beaumont Basin for the next workshop.

Chair Vela said there would be value in that exercise, but cautioned that the Committee must be mindful not to overcommit itself.

Mr. Harder and Mr. Blandon will work together and bring back to the next workshop for continued discussion. He recommended keeping this moving.

VI. Topics for Future Meetings

- A. Monitoring of future west side well sites and methodologies, and potential collaboration with USGS
- B. Procurement Policy including thresholds for RFP process
- C. Evaluation of Storage Issues in the Basin (tabled from 12/2/2021 meeting)
- D. Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management
- E. Incidental discharge
- F. Development of a Recycled Water Policy
- G. Development of a return flow accounting policy
- H. Update on SGPWA water supply portfolio

VII. Comments from the Watermaster Committee Members

None.

VIII. Announcements

- a. Set date for next Special Meeting / Workshop – None set
- b. The next regular meeting of the Beaumont Basin Watermaster is scheduled for August 2, 2023 at 11:00 a.m.
- c. Future Meeting Dates:
 - i. October 4, 2023 at 11:00 a.m.
 - ii. December 6, 2023 at 11:00 a.m.
 - iii. February 7, 2024 at 11:00 a.m.

XI. Adjournment

Chair Vela adjourned the meeting at 3:04 p.m.

Attest:

A handwritten signature in blue ink, appearing to read 'D. Jagers', is written over a horizontal line.

Daniel Jagers, Secretary
Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, August 2, 2023**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave., Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:04 a.m.

Pursuant to the provisions of AB 2449, Member David Armstrong of South Mesa Water Company joined the meeting via video teleconference under Emergency Circumstances.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Jeff Hart</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joe Zoba</i>	<i>Present</i>

Hanibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (BBWM).

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart of Dudek was present as BBWM administrator.

Members of the public who registered and / or attended:

Jennifer Ares, Yucaipa Valley Water District
Nyles O’Harra, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Allison Edmisten, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Madeline Blua, Yucaipa Valley Water District
Lance Eckhart, San Gorgonio Pass Water Agency
Matthew Howard, San Gorgonio Pass Water Agency
Emmett Campbell, San Gorgonio Pass Water Agency
Ron Duncan, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio Pass Water Agency
Mickey Valdivia, San Gorgonio Pass Water Agency
Robert Rasha, Beaumont-Cherry Valley Water District
Cenica Smith, Beaumont-Cherry Valley Water District
Mark Swanson, Beaumont-Cherry Valley Water District

Brittany Lim, South Mesa Water Company
Kendall Lovell, Fennemore Law

III. Pledge of Allegiance: Chair Vela led the pledge.

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes

June 7, 2023 Regular Meeting

July 13, 2023 Special Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through July 5, 2023

C. A Comparison of Production Rights versus Production through June 2023

D. Financial Status Report

It was moved by Member Zoba and seconded by Member Jagers to approve Consent Calendar items A through D.

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

VI. Reports

A. Report from Engineering Consultant – No Report

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

Mr. Harder reported that he has been working on the groundwater flow model, which has been recalibrated to begin forward projections to estimate the safe yield. This will be available in the next month or so.

C. Report from Administrative Consultant – Steve Stuart, Dudek

Mr. Stuart reported that he has been working on a schedule to address all items for further discussion in future meeting agendas. This will be presented at the October meeting.

D. Report from Legal Counsel – Thierry Montoya - Frost, Brown, Todd

Nothing to report.

VII. Discussion Items

A. Presentation by San Gorgonio Pass Water Agency General Manager Lance Eckhart

Mr. Eckhart described the San Gorgonio Pass Water Agency (SGPWA) role as a State Water Contractor and shared the draft new SGPWA mission and vision statements. He noted that the agency is at the end of the line of the State Water Project (SWP) and said that the delivery of water has changed to large volumes based on climate variability.

11:10 a.m.: Member Dave Armstrong joined the meeting.

Mr. Eckhart continued. He pointed out there are now a few nearby Groundwater Sustainability Agencies with the adjudicated area in the center, and development is continuing. He noted that Desert Water Agency and Coachella Valley Water District receive water from the Colorado River, and that was an option for this area, but it was decided that the water quality was poorer than State Water Project. There were consequences for the region due to that decision, he noted: the SWP would be a much larger project moving through the area and down to the Coachella Valley area.

Reservoirs are currently full and there is still a lot of snowmelt, Eckhart indicated. People are trying to store water wherever possible, including Central Valley farmers, he noted.

Mr. Eckhart described the SWP facilities, provided an update on the Sites Reservoir project, and gave an overview of the SGPWA and its historic activities. Imported water is necessary, and there is effort to increase the supply when available, he assured, and showed photos of the facilities which will double the capacity for recharge.

The SGPWA portfolio includes carryover water in the San Luis Reservoir, water deals and transfers like a recent lease with City of Ventura for 10,000 AF from 2022-2042, and 5,075 af of Article 21 water, Eckhart noted. He reminded that 2023 is a 100 percent SWP allocation year, which it was thought would never be seen again. He advised that there will be periods of excess water for recharge, but he does not expect a series of 100 percent years. Reliability should increase with Sites Reservoir, along with the Delta Conveyance, he added.

About 12,000 af have been moved into the Beaumont Basin this year, with the target being 20,000 af, Eckhart explained. He described constraints along the California aqueduct and the negotiation of capacity with other agencies. He provided a brief overview of housing and economic development and assured that SGPWA is responding to the needs of stakeholders and making needed investments.

Major projects of the SGPWA include a backbone pipeline to the Cabazon area due to development moving east, governance and planning with two groundwater sustainability agencies (GSAs), Inflation Reduction Act funding coming through over the next few years, water main replacement, multi-benefit flood control facilities, and Brookside property stormwater capture or recycled water use, Eckhart noted. He emphasized collaboration.

Mr. Eckhart discussed ongoing analyses regarding water banking, recharge, and other options to maximize the ability to import water.

SGPWA has also been working on small systems support, disadvantaged communities, gap funding, school events, optimization of mutual resources for recycled water with the City, conservation messaging, regional water planning including alignment of urban water management plans, turf replacement programs, cloud seeding, and managing the GSA in the Cabazon / East Banning area, Eckhart explained.

Mr. Eckhart emphasized this is a time of resource uncertainty and change, and said it is important to band together, look at assets and mutual strengths, and try to leverage those as a group.

Member Zoba discussed long-term SWP reliability and average percentage of allocation. He requested SGPWA make publicly accessible via a web portal its annual deliveries and to whom in order to be able to calculate the long term delivery rates. Mr. Eckhart noted this is reported once a month at a regular Board meeting. He pointed to the long term plan and noted the data, modeling, and projections can be discussed by the general managers' group.

Eckhart pointed out that the Sites Reservoir is becoming more real every day and will be a game changer for this area.

Member Armstrong thanked Mr. Eckhart for assistance with the grant funding efforts for the Countyline Road recharge and pipeline project and noted that SMWC getting a \$10 million grant is a huge accomplishment.

Member Armstrong confirmed that he is joining the meeting under the provisions of AB 2449.

It was moved by Member Jaggars and seconded by Member Hart to approve the remote attendance of Member Armstrong under AB 2449 by the following vote:

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

B. 2022 Consolidated Annual Report and Engineering Report – Presentation of Comments Received on Draft Report (tabled from 6/7/2023)

Recommendation: That the Watermaster Committee Consider Approving the 2022 Annual Report after Comments Received on the Draft Report are Presented and Discussed

Mr. Hanibal Blandon provided background on comments received and presented the revised draft report. He noted that the BBWM administrator, Steven Stuart of Dudek, indicated that the report did not discuss the production rights by appropriators, and it was agreed that should be included. Pointing to the Stipulated Judgment section I-3-B, he noted that when production rights are greater than production, water taken from storage is minimized or water is put into storage. However, when water production rights are less than production, water is taken from storage if available, or the Appropriator shall provide funds to enable the Watermaster to replace overproduction. This has not happened, but could happen in the future, he advised, and introduced a modified Table 3-8 to include a column considering the production right.

Member Zoba suggested that appropriators should advise regarding the category from which water is being taken rather than have an automatic process. Mr. Blandon explained the calculations and reiterated this has never been done. Mr. Zoba advocated for a more sophisticated process allowing the appropriator to declare the category from which water is taken. Blandon said he could start that inquiry in January. Mr. Zoba suggested further discussion and possible addition to the Rules and Regulations. He suggested that in the event of a deficit, there is no definition of "funds" to be deposited to the BBWM and this needs to be identified, along with for what the funds are to be used.

In response to Chair Vela's note that despite what category the water is taken, Mr. Zoba indicated that the category could be taken all the way back to the beginning when there was surplus water which was different than water in storage accounts. If the process is automatic, there may be unintended consequences, he noted. He said he would assume that

overlying rights would be used first, before the storage account. Mr. Bandon agreed that at the end of the day, it should be a wash.

Member Jagers suggested a full review of the Rules and Regulations to modernize and to handle such issues, creating a road map for success. Member Jagers would like to see a future agenda item to address the rules and regulations for how this accounting fits in. Mr. Bandon noted that the current Rules and Regulations document does not memorialize when amendments took place. Mr. Zoba indicated he would post the current copy of the Rules and Regulations upon receipt.

Chair Vela invited public comment. There was none.

Mr. Bandon assured that every issue and comment had been addressed.

It was moved by Member Hart and seconded by Member Jagers to approve the 2022 Consolidated Annual and Engineering Report by the following vote:

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

C. Discussion / Clarification of Overlier Transfers Process

Recommendation: No recommendation

Mr. Jagers reminded of prior discussion and the June 2023 notice from YVWD about overlier activities which did not appear to be following the outline of previous activities following the passage of Resolution 2017-02. He recalled his position that YVWD had processed a series of requests assigning water supply to parcels and recommendation for discussion to come to resolution to assure there is a road map, with possible review of the Rules and Regulations.

Mr. Stuart reminded that the discussion was about providing a supplement to the Form 5 (Resolution 2019-02) related to how an overlier receives water service from an appropriator in an equivalent amount of potable groundwater shall be earmarked up to the overlying party's right. The BBWM shall maintain an accounting, he continued, noting the Form 5 has parties signing off and agreeing to the transfer of the overlying water rights to the appropriator, including the amount of water to be transferred. He recommended a supplement to the Form 5 as a table that identifies by 2003 APN and current APN the parcels receiving water and the year of water service. He also noted that the APNs in the judgment were based on those used in 2003, but since then,

with development and progress, new parcels have been identified and APNs have changed.

Mr. Stuart responded to Chair Vela and Member Jagers indicated this is consistent with what had been done in the past and said he would like to see a draft proposal from Dudek for this work. Chair Vela requested this for the next meeting.

D. Discussion Regarding Structure of the Watermaster Committee and Inclusion of Elected Representatives as Primary Members

Recommendation: No recommendation

Administrator Steve Stuart reminded the Committee that at the conclusion of the last meeting, member Hart brought up the idea of having a discussion of the structure of the committee and whether there was benefit or desire to have elected representatives serve as primary members of the committee, particularly as policy decisions are being made. The idea was that the elected officials will serve as primary members and existing members will serve as secondary members or be members of a technical advisory committee to the primary members. Mr. Stuart reviewed the Stipulated Judgment in Section 4.4. which states:

The Watermaster shall consist of a committee composed of persons nominated by the City of Banning, the City of Beaumont, BCVWD, SMWC, and YVWD, each of which shall have the right to nominate one representative to the Watermaster committee who shall be an employee of or consultant to the nominating agency.

Member Hart pointed out that as the Committee approaches more policy decisions and management of the basin, he would like to have the thoughts of the Committee members on a structure that may include elected members for the primary Board. It has been mentioned that it may offer a clear benefit, he said.

Member Jagers noted that the responsibility for operations of the District is with the general manager with policy activities in the purview of the elected officials. He recommended following the outline in the judgment.

Legal Counsel Montoya confirmed that any change in the terms of the judgment would have to be amended and approved by the Court.

Member Hart suggested an advisory committee of staff and a primary committee of electeds. Member Hart noted that there is precedent with

elected officials serving on the committee in the past. To consider a different level of involvement other than members and alternates would require proposed language to be presented to the Court, Mr. Montoya noted.

If the Committee wanted to appoint representatives to serve on a committee or represent the Watermaster, the rules would not require amendment, noted Mr. Montoya.

Member Zoba suggested a process included in the Rules and Regulations where the Committee would vote on any member or alternate put forth by an agency.

Member Jagers noted this can be considered during any revision of the Rules and Regulations.

12:10 p.m. – Member Armstrong left the meeting.

E. Update on Development of Data Management System

Recommendation: No recommendation

Mr. Stuart noted the contract with the Watermaster was signed on July 14, 2023 and the online licensing with ESRI is underway. He is working on collecting well information for the Watermaster for inclusion in the database to be made available to all members. A demonstration of the preliminary version of the DMS will be presented at the October meeting.

F. Update on Well Survey Project for Wells in the Beaumont Basin Monitoring Network

Recommendation: No recommendation.

Mr. Stuart said he is still looking for well survey information from BCVWD and YVWD. Member Jagers said BCVWD is in the process of hiring a survey company.

G. Discussion of Agenda Items and Special Meeting Date for Proposed September Workshop

Mr. Stuart indicated a workshop date will be proposed later.

Mr. Stuart reminded the Committee about discussion begun last month including a vision and mission statement. He noted that Dudek is comparing SGMA with the adjudicated basin as had been suggested.

Member Jagers noted that both positive and negative feedback was received on the workshop format. He noted that eight microphones had been ordered and requested suggestions for the next meeting.

Roundtable discussions are more informal and provide better value of discussion, Chair Vela noted. Member Zoba suggested instead of agendizing it as a workshop to agendize it as a special meeting so action can be taken. He recommended that topics such as rules and regulations and overlying water rights if the agenda appears to be light.

VIII. Topics for Future Meetings

- A. Monitoring of future west side well sites and methodologies, and potential collaboration with USGS
- B. Procurement Policy including thresholds for RFP process
- C. Evaluation of Storage Issues in the Basin (tabled from 12/2/2021 meeting)
- D. Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management
- E. Incidental discharge
- F. Development of a Recycled Water Policy
- G. Development of a return flow accounting policy
- H. Direction for use of different types of storage accounts
- I. Discussion regarding process and categorization of water production for the annual report
- J. Revision of Rules and Regulations:
 - i. Committee participation by electeds
 - ii. Mechanism for BBWM to collect funds if storage account is in deficit (Development of a rate for overproduction of right)
 - iii. General modernization of rules and regulations

IX. Comments from the Watermaster Committee Members

None.


X. Announcements

- A. Special meeting / workshop date to be determined
- B. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, October 4, 2023, at 11:00 a.m.
- C. Future Meeting Dates:
 - December 6, 2023 at 11:00 a.m.
 - February 7, 2024 at 11:00 a.m.
 - April 3, 2024 at 11:00 a.m.

XI. Adjournment

Chair Vela adjourned the meeting at 12:29 p.m.

Attest:

A handwritten signature in blue ink, appearing to read 'D. Jagers', is written over a horizontal line.

Daniel Jagers, Secretary
Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, October 4, 2023**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave., Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:06 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>		<i>Absent</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joe Zoba</i>	<i>Present</i>

Hanibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (BBWM).

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart of Dudek was present as BBWM administrator.

Members of the public who registered and / or attended:

Jennifer Ares, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Allison Edmisten, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Madeline Blua, Yucaipa Valley Water District
Mark Swanson, Beaumont-Cherry Valley Water District
Lance Eckhart, San Geronio Pass Water Agency
Matt Howard, San Geronio Pass Water Agency
Robert Ybarra, San Geronio Pass Water Agency
Larry Smith, San Geronio Pass Water Agency
Robert Rasha, Beaumont-Cherry Valley Water District
Lynda Kerney, Beaumont-Cherry Valley Water District
Kendall Lovell, Fennemore Law
Thaxton Van Belle, City of Beaumont
Matthew Palavido, Dudek
Matt Ford
Jim Vandewater
Emily Swagart

III. Pledge of Allegiance: Chair Vela led the pledge.

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes

August 2, 2023 Regular Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through September 20, 2023

C. A Comparison of Production Rights versus Production through August 2023

D. Financial Status Report

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

It was moved by Member Zoba and seconded by Member Armstrong to approve Consent Calendar items A through E.

AYES:	Armstrong, Jagers, Vela, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	City of Beaumont
STATUS:	Motion Approved

VI. Reports

A. Report from Engineering Consultant

Mr. Anibal Blandon of ALDA Engineering advised that the 2022 final Annual Report is complete and has been posted on the website.

Mr. Blandon reported vandalism at a Well at the Noble Creek spreading grounds. A new communications cable needs to be ordered.

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

No report.

C. Report from Administrative Consultant – Steve Stuart, Dudek

Mr. Stuart provided an update on the well survey project. Results are expected in the next month or so. He is working with agencies to collect and compile information.

D. Report from Legal Counsel – Thierry Montoya - Frost, Brown, Todd

No report.

VII. Discussion Items

A. Letter of Support for the Brookside West Recharge Facility WaterSMART Planning and Design Grant

Recommendation: Approve the Letter in Support of SGPWA's Brookside West Recharge Facility WaterSMART Planning and Design Grant from the Bureau of Reclamation and Authorize the Committee Chairperson to execute and submit the letter

BBWM Secretary Dan Jagers advised of a request from the San Geronio Pass Water Agency (SGPWA) for a letter of support.

SGPWA General Manager Lance Eckhart described the 62-acre Brookside West priority project and noted the expansion of the SGPWA water supply portfolio. He explained the need for more recharge facilities and requested support.

It was moved by Member Jagers and seconded by Member Zoba to approve the Letter in Support of SGPWA's Brookside West Recharge Facility WaterSMART Planning and Design Grant from the Bureau of Reclamation and authorized the Committee Chairperson to execute and submit the letter by the following vote:

AYES:	Armstrong, Jagers, Vela, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	City of Beaumont
STATUS:	Motion Approved

B. Discussion on Process for Documenting the Transfer of the Overlying Water Rights of Oak Valley Partners to Yucaipa Valley Water District

Recommendation: No recommendation

Based on requests from the BBWM Committee, YVWD prepared a series of letters covering calendar years 2018 through 2022, which include data for each lot for the water actually served within the area identified on Resolution 2017-2, Member Zoba advised.

Member Jagers indicated he had reviewed the data and said the tracking and annual report out seems appropriate. He noted concern about the effects of the AB 1668 and SB 606 legislation and said this methodology seems a good approach.

Chair Vela clarified the water rights transferred, but would potentially be adjusted in the future based on the redetermination of the Basin safe yield. Mr. Zoba added that the column of overlying rights becomes a subcategory, as theoretically, all of the overlying water rights were transferred to all of the appropriators, there would then be zero safe yield. He confirmed it would change every 10 years based on the safe yield.

C. Transfer of Overlying Water Rights from Oak Valley Partners to Yucaipa Valley Water District for Calendar Years 2018, 2019, 2020, 2021, and 2022

Recommendation: Receive and file the transfer of Overlying Water Rights from Oak Valley Partners to Yucaipa Valley Water District for Calendar Years 2018-2022 and update the appropriate records in the 2023 Annual Report to reflect the transfers

Member Jagers said the data sets show the same lots each year, such as the school site, and the water use is reported out. He discussed finding equilibrium related to the legislation and said it is a good way to maintain the health of the Basin. He noted that BVCWD is providing emergency service to two parcels. The existing well was not in the District, and the transfer of water rights will be brought forward in a similar manner.

The accounting seems appropriate and reasonable, and the process can be refined moving forward, Jagers stated.

In response to Member Armstrong's question asking if Mr. Montoya was comfortable with the process of documenting water served, Legal Counsel Thierry Montoya indicated he was comfortable with the process, and said it is well thought out, well documented, and supersedes the original Form 5 that was submitted years ago. It is helpful, as there is now current parcel ID numbers, he added.

Mr. Stuart suggested that if this is to be used as the case to demonstrate how to properly document the transfer of overlier rights to appropriators, the Rules and Regulations can now be amended to reflect documentation in the same fashion moving forward.

Member Jagers noted that figures on Item V-C: A Comparison of Production Rights vs. Production through August 2023 would need to be adjusted.

It was moved by Member Jagers and seconded by Member Zoba to receive and file the transfer of Overlying Water Rights from Oak Valley Partners to Yucaipa Valley Water District for Calendar Years 2018-2022 and update the appropriate records in the 2023 Annual Report to reflect the transfers by the following vote:

AYES:	Armstrong, Jagers, Vela, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	City of Beaumont
STATUS:	Motion Approved

D. Discussion on Calculating Appropriator's Production Right and Storage Accounting

Recommendation: No recommendation

Mr. Hanibal Blandon explained that he and Mr. Stuart spoke at length about the Consolidation of Appropriator Production and Storage Accounts, and revision of Table 3-8 in the Annual Report. Given prior discussion about future shortfalls when an appropriator in any given year produces and from which bucket the overage would be taken, he presented a revised Table 3-8 reflecting a second and third bucket. He discussed options.

Member Zoba suggested a third bucket: overlying water rights. He reminded about discussion with legal counsel and an opinion that overlying water rights not put to beneficial use are lost. He recommended making it clear via the Rules and Regulations or an agreed-upon process that the water served is being tracked, accounted for, and utilized for beneficial use.

Mr. Blandon suggested further discussion and an opinion from legal counsel.

Member Jagers recapped using an example of transfer of Oak Valley to YVWD. Member Zoba noted that the temporary surplus water may also have a time frame attached, and should be accounted for. He recommended an order of operation of water used.

Mr. Blandon said he would look at the numbers in preparation for the next meeting, with the idea that the temporary surplus water is used first, then calculate the balances. Chair Vela clarified that all water used would be calculated and whatever is left in the storage account would be the imported water.

An analysis of each appropriator might be an individual discussion in preparation for the next meeting, Jagers suggested. Blandon will prepare and send out the data.

Chair Vela said he would like to avoid an artificial burden on the Watermaster if an agency wanted to pay the Watermaster rather than tap into the storage account.

Member Jagers indicated he would rather the Watermaster not be the primary contracting agent with entities such as SGPWA until there is a point at which water cannot be brought down and there needs to be alternative. Reporting to the SGPWA allows that agency to be current on the landscape. He suggested next discussion on SGPWA as a vehicle for the Watermaster, and to have a system of acquiring money and how that system is managed responsibly.

Mr. Zoba suggested adding to a future agenda what to do when a producer goes negative.

E. Update on Safe Yield Reset of the Beaumont Basin

Recommendation: No recommendation.

Mr. Tom Harder reminded that the original Safe Yield in 2003 was 8,650 acre-feet, and was later reduced to 6,700 in 2013. This is the next reset process for the 2023 to 2034 time frame.

Harder discussed in detail the groundwater flow model being updated to be used to determine a stable Basin storage over a long period of time. This is an update to the model developed in 2013. The safe yield will be determined based on the forecast of pumping and recharge conditions for the next 10 years. The demand estimates are based on Urban Water

Management Plan data and adjustments have been made for climate change, Harder explained. Future pumping was maximized at the maximum rate recorded in the past.

Chair Vela noted that a change in safe yield will impact the projected imported water need, a moving target that will adapt to conditions on the ground, currently at 14,448 af, and increasing to 19,000 af per year in 2033. Mr. Jagers added that the required reduction in water use by 2025 as delineated in the Making Conservation a Way of Life legislation may also affect the projection.

Harder recommended achieving the best estimate of how to manage the Basin moving forward and adjusting as necessary in the future.

Mr. Jagers stated it appears that uncertainties are being projected forward and recommended a general discussion on ideas such as augmentation of the west side of the basin and recharge near Cabazon. An uncertainty analysis will be presented as part of the process, Harder advised.

Mr. Harder discussed recharge operations and advised that YVWD would be installing injection wells for 2,000 af per year. Mr. Armstrong asked about impact on water quality. Mr. Zoba assured the recycled water injected would be indirect potable reuse.

Mr. Harder indicated that preliminary results will be presented at the next workshop with final safe yield estimate presented at the regular December meeting.

In response to Chair Vela's question about the physical split of the Basin into two sections, Mr. Harder discussed the physical bifurcation of the Basin. A zone analysis will be done, he said, to determine safe yield on the west side vs. east side as an information item, which will be helpful for planning purposes. In response to Member Zoba's question as to the purpose of determining the safe yield of the west and east sides of the Basin, Harder further explained, and noted that the safe yield is based on the Basin. This amplifies the point that all the spreading basin activity is on the east side, which is already known. Harder suggested the purpose of the data could be to determine what kind of projects are needed on the west to balance. Zoba asked if YVWD would be able to drill a well on the east side. Harder indicated trade may be possible. Zoba indicated he did not want this to lead to awkward, poor policies. The exercise has value from a planning perspective, Vela noted. Harder suggested the information be kept in a hip pocket.

In response to Member Jagers, Harder explained the state of the science has changed to forward projection (forecasted safe yield), and

provided some detail on factors being addressed such as climate change.

Chair Vela invited public comment.

SGPWA General Manager Lance Eckhart discussed the uncertainty and the complicated process leading to a point in time for planning purposes and "what ifs" for support of capital improvement plans.

- F. Discussion Regarding Structure of the Watermaster Committee and Inclusion of Elected Representatives as Primary Members, and Process for Nomination of Members by Participating Agencies

Recommendation: No recommendation.

Mr. Stuart highlighted the discussion of Committee membership in the judgment. He outlined questions related to establishment of a process for nomination of members. Mr. Zoba requested that a precursor be included in the consent calendar as an information item on whom was presented to the Court for consideration as a member to the Committee.

Following discussion, consensus of the Committee was to leave the structure as is.

- G. Consideration to Incorporate Notification and Documentation Requirements for New Wells in the Watermaster Rules and Regulations

Recommendation: That the Watermaster Committee consider engaging Dudek to revise the Rules and Regulations to include specific well construction requirements and documentation of new wells and alterations to existing wells

It was moved by Member Zoba and seconded by Member Jagers to table Item G. Approved by the following vote:

AYES:	Armstrong, Jagers, Vela, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	City of Beaumont
STATUS:	Motion Approved

- H. Update on Development of Data Management System

Recommendation: No recommendation.

Mr. Matthew Palavido stated that the database and interface are in progress. He presented preliminary maps and asked members to think about any reference layers desired to be included in the system. He provided an overview and demonstrated system capabilities and data.

In response to Chair Vela, Mr. Palavido indicated the system is about 50 percent complete.

I. Consideration of Professional Administrative and Technical Support Services to the Beaumont Basin Watermaster for Calendar Year 2024

Recommendation: That the Watermaster Committee extend the contract with Dudek for Professional Administrative and Technical Support Services for the 2024 calendar year for a sum of \$79,878 and send invoices to each Watermaster Committee member for 20% of the approved amount

The Watermaster has been working with Dudek for one year, and it seems to be working well, Member Zoba stated. He recommended extension of the contract.

In response to Member Jagers, Member Zoba indicated that the current contract was 91 percent complete, per the Financial Report.

In response to Chair Vela, Member Zoba explained there will be a separate, standalone Task Order for 2024.

Jagers stated it seems appropriate from a total number perspective to keep the progress moving forward. Mr. Jagers noted that the fee for 2024 is slightly less than this year's fee.

It was moved by Chair Vela and seconded by Member Zoba to extend the contract with Dudek for Professional Administrative and Technical Support Services for the 2024 calendar year for a sum of \$79,878 and send invoices to each Watermaster Committee member for 20% of the approved amount. Approved by the following vote:

AYES: Armstrong, Jagers, Vela, Zoba
NOES: None
ABSTAIN: None
ABSENT: City of Beaumont
STATUS: Motion Approved

J. Consideration of Thomas Harder & Co. Task Order No. 3 for Preparation and Attendance at Special Committee Meetings

Recommendation: That the Watermaster Committee approve Task Order No. 3 for a sum not to exceed \$17,100.00

Member Zoba presented the proposal and noted that Tom Harder has done a great job of informing and educating the Committee on the issues. He recommended the motion include the cost split.

Member Jagers commented that the work is needed to support the workshops.

It was moved by Member Jagers and seconded by Member Armstrong to approve Task Order No. 3 for a sum not to exceed \$17,100.00 and send invoices to each Watermaster Committee member for 20% of the approved amount. Approved by the following vote:

AYES: Armstrong, Jagers, Vela, Zoba
NOES: None
ABSTAIN: None
ABSENT: City of Beaumont
STATUS: Motion Approved

K. Discussion of Agenda Items and Special Meeting Date(s) for Proposed Workshops

Mr. Stuart reviewed topics and open format for the workshops.

The Committee set the following Special Meeting schedule:

- Wednesday, November 1, at 11 a.m.
- Wednesday, January 10, 2024 at 11 a.m.
- Wednesday, March 6, 2024 at 11 a.m.

It was moved by Member Zoba and seconded by Chair Vela to approve the above schedule. Approved by the following vote:

AYES: Armstrong, Jagers, Vela, Zoba
 NOES: None
 ABSTAIN: None
 ABSENT: City of Beaumont
 STATUS: Motion Approved

- L. Notice of Planned Well Drilling in the Beaumont Basin from Beaumont-Cherry Valley Water District

Recommendation: Receive and File

Member Jagers presented the letter as formal notification to memorialize BVCWD's plans, as outlined in the Rules and Regulations.

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Evaluation of Storage Issues in the Basin	Tabled from 12/2/2021 meeting
G	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
H	Direction for use of different types of storage accounts	8/2/2023
I	Revision of Rules and Regulations: <ul style="list-style-type: none"> i. Mechanism for BBWM to collect funds if storage account is in deficit (Development of a rate for overproduction of right) ii. General modernization of rules and regulations iii. Clarification of overlie transfers process iv. Proposal from Dudek for this work 	8/2/2023

J	Process and categorization of water production for the annual report	8/2/2023
K	Discussion on what to do when an Appropriator goes negative	10/4/2023

IX. Comments from the Watermaster Committee Members

Member Jagers expressed hope for another wet year.

Chair Vela announced drilling of a new well, City of Banning C8, within the Atwell project off Highland Home Road and Wilson Street.

X. Announcements

- A. The next meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, November 1, 2023, at 11:00 a.m.
- B. Future Meeting Dates:
 - December 6, 2023 at 11:00 a.m.
 - January 10, 2024 at 11:00 a.m.
 - February 7, 2024 at 11:00 a.m.
 - March 6, 2024 at 11:00 a.m.
 - April 3, 2024 at 11:00 a.m.

XI. Adjournment

Chair Vela adjourned the meeting at 12:53 p.m.

Attest:


 Daniel Jagers, Secretary
 Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Special Meeting
Wednesday, November 1, 2023**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave.
Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:00 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Robert Vestal</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joe Zoba</i>	<i>Present</i>

*Hannibal Blandon and Thomas Harder were present as engineers for the
Beaumont Basin Watermaster (BBWM).
Steve Stuart of Dudek was present as BBWM administrator.*

Members of the public who registered and / or attended:
Lance Eckhart, San Geronio Pass Water Agency General Manager
Larry Smith, San Geronio Pass Water Agency
Ron Duncan, San Geronio Pass Water Agency
Emmett Campbell, San Geronio Pass Water Agency
Matt Howard, San Geronio Pass Water Agency
Kendall Lovell, Fennemore Law
Allison Edmisten, Yucaipa Valley Water District
Jennifer Ares, Yucaipa Valley Water District
Jim Vandewater
Robert Rasha, Beaumont-Cherry Valley Water District
Lynda Kerney, Beaumont-Cherry Valley Water District
Inmar Shihab, Beaumont-Cherry Valley Water District
Evan Ward, Beaumont-Cherry Valley Water District
Mark Swanson, Beaumont-Cherry Valley Water District

III. Pledge of Allegiance: Chair Vela led the pledge.

IV. Public Comments: None.

V. Workshop / Discussion Items

A. Update on the Safe Yield Redetermination

Thomas Harder reported that work is proceeding on the safe yield. He discussed the model and its calibration. Using a historical calibration, prior years' safe yields were: 1978 to 2022 = 6,700 af, 2013 to 2022 = 6,200 af, he noted.

Mr. Harder explained the program and the running of multiple models, and statistical range. Currently, the model is running 200 different scenarios, and staff will recommend the 50th percentile. There will be a difference of hundreds of acre-feet, could be more or could be less, he noted.

B. Mission and Vision Statement

Current Mission Statement:

Watermaster's mission is to manage the yield and storage within the Beaumont Basin to provide maximum benefit to the people dependent on it

Steve Stuart read the mission statement, reviewed the stipulated Judgment, and broached the potential for a water management plan including a goal or goals.

C. Watermaster Goal for the Basin

D. Compare Conditions in Beaumont Basin to SGMA Sustainability Criteria

E. Identify next steps

Member Armstrong pointed out the Beaumont Basin is not a Sustainable Groundwater Management Act (SGMA) basin, and the problems are known: east side / west side situation. He suggested supporting the San Geronio Pass Water Agency (SGPWA) in establishing recharge basins on the west side, as the solution is to get water into the ground.

Chair Vela noted value in the discussion and in goal setting while bearing in mind the judgement as the underlining document. There are good management ideas in SGMA that could be applied to the Basin. He indicated concern with establishing and being fully invested in the group and the goals that will make management of the Basin as a whole and the individual use of the Basin more restrictive.

Committee Members provided some suggestions for ongoing discussion and potential goals:

Basin level:

- Maintain current level in the Basin, or analyze and determine an acceptable threshold (level is managed up and down), or restore Basin to the 2004 level or another baseline
- Mr. Harder asked, "What is the level at which things become significant and unreasonable?" He noted that in other basins, levels have been identified at which lowering of pumps would be required. He described "material physical injury" and suggested analysis of current pumping and depth of wells, and what level would be considered and create an untenable position.

Other items of discussion:

- Wells are finite and there is lack of State Project Water (SPW)
- The SGPWA may not always be there to rely on
- How will SPW be divided in the future
- Work will be better as a group, by utilizing all resources to maximize success
- How to manage and prevent adverse effects
- What is the future and what is sustainable? Create a new forecast
- Impacts of AB 606 and SB 1668 (including Urban Water Management Plans)
- Look at realistic operational ranges of the 30-mile Basin
- Identify issues that prevent achieving beneficial use of groundwater for all users
- Achieve long-term groundwater sustainability
- System for early acknowledgement of any collapsing of the Basin without waiting for the redetermination
- Prioritization of SGPWA supply when SPW is not available and/or storage accounts are at zero

Member Armstrong indicated that SMWC Well 4 is better now than in the past, and suggested the group may be looking for a problem when there is none, but supported the production of a plan. The solution is for the SGPWA to put a recharge basin on the west side.

Member Zoba pointed to the depression of 40,000 af in the north part of the Basin, which impacts YVWD.

Emmett Campbell asked how much of that decline was due to the surplus water (160,000 af allowed to be pumped in excess of the safe yield). Mr. Harder noted it would have to be analyzed. Member Zoba said he disagreed, explaining it is an issue of pumping more water than could be recovered. The surplus water still appears in the members' storage accounts, Campbell noted. Mr. Eckhart noted that controlled overdraft is built into the Judgment, and it happens to be geographically concentrated in an area. He suggested that any analysis determine the location of any overlies that cannot be managed by the Watermaster.

Member Zoba stated the decline is near a BCVWD well and should not have gotten to that point, although it is allowed per the Judgment, but now there is a deficit depression in the Basin that has no natural recharge and nothing significant to bring it back up. Member Jagers detailed BCVWD's Well 29 extraction and efforts to manage overdraft in that area, and pointed to extraction by the golf course and other overlies. He said he would appreciate a scientific look and said BCVWD is supportive of good management of the Basin. Member Zoba suggested the consultants look into it for a future agenda item to understand why that part of the Basin is so low. The obligation is to a healthy Basin; it must be left better off for those following, he added. Member Jagers cautioned against oversimplification.

Lance Eckhart pointed to the Urban Water Management Plans and suggested the inclusion of elements of a collaborative integrated plan and begin to look at projects.

Chair Vela returned the discussion to goals. Mr. Stuart noted there is a condition in the Basin that will experience issues and suggested an operational look with application of criteria, determination of risk, and establishment of goals based on a minimum threshold. It can start with hydrogeology, he stated.

Mr. Harder posited that the SGMA approach it is a process with helpful things to achieve a sustainable Basin. He reiterated the recharge imbalance between the eastern and western portions of the Basin and posed questions, does the potential extraction of the storage account balances present a potential for undesirable results, and what are the implications for not accounting for storage losses? If the balances are drawn to zero, will an untenable position be created, and what is the untenable position?

Storage has declined since adjudication in 2003, Harder explained, but with the advent of supplemental recharge in 2007, the Basin as a whole was balanced. Since about 2010, the level has been fairly stable, and from a Basin-wide standpoint, things look fairly sustainable, he said.

Harder compared the adjudication to SGMA and discussed best management practices and the SGMA process and management criteria. Potentially impacting the Beaumont Basin are sustainability indicators: chronic lowering of groundwater levels, reduction of groundwater in storage, and degraded groundwater quality. Undesirable results would be identified, along with the conditions that cause them, he said. He pointed to overlie wells on the west side and the need to identify conditions by which they would be able to continue to pump, and if there were a risk that they would not continue to be able to do so.

The groundwater flow model is the tool which will help make determinations, Harder continued.

Member Zoba pointed out that typically, imported water is regarded as a supplemental water source but this Basin must obtain every drop of imported water possible in order to remain sustainable. If there is a hiccup and agencies are not mindful of development, more SPW will be run through a treatment plant rather than recharged to the Basin. He noted concern that the water needs to stay in the Basin. More will always be needed from the SGPWA; the idea of getting back to 2004 levels is impossible, and it must be figured out what it takes to maintain today's levels and what problems will be encountered later on, he said.

Eckhart questioned the raising of groundwater levels when there is built in controlled overdraft to create storage in the adjudication. He explained the SGPWA supply portfolio has changed with investment in the Sites Reservoir and other sources. He described the importance of more aggressive regional conservation programs and full use of recycled water. Imported water is the critical path for the region, and has been anticipated for more than 60 years, he noted.

Eckhart emphasized the need to work together to smartly use the imported water over and over again, and to highest and best use.

Member Zoba provided history on the premise of the temporary surplus and the planned contract with Metropolitan Water District (MWD) to fill the Basin, and the decision not to issue the RFP to fill the Basin. Member Armstrong noted that would be expensive water. Harder stated the Dry Year Yield Program from Chino has its pluses and minuses, but it did fund a few projects. Member Jaggars recalled that the MWD contract was delayed in order to build recharge ponds, but the adjudication was followed.

The desired goal is to average orders over time to meet growth and provide redundancy, Jaggars continued. He discussed the management of the storage account and reiterated that with the recent legislation, less water would be sold.

In response to Chair Vela, Mr. Harder explained the model scenarios and projections. It calculated what the safe yield is projected to be into the future. It is assumed that the recharge water is there to supply all of the overpumping (unmet replenishment), and that agencies do not have to take from their storage accounts to meet demands. Chair Vela suggested a look at a more realistic scenario that the water is not there, and agencies are pulling from storage.

There may be an economic motivator to use of water in storage when imported water costs \$399 per af, Eckhart pointed out.

Chair Vela acknowledged the serious concerns and Harder suggested running various scenarios to determine the effect on the safe yield to see if any undesirable results emerge.

Member Jagers advised about the emergency connection provided by BCVWD to Tukwet Canyon Golf Course and may be exchanged for overlie credit. In wet years, partnerships may be considered to deliver as much as possible by extraction to areas that could turn off and help recover the Basin via in-lieu recharge, Jagers noted.

Campbell suggested it may be useful to look at storage accounts to separate how much of each is the surplus water and how much is imported. Stuart recalled the discussion at the last meeting regarding priority for extraction of water.

Member Zoba questioned what would happen when SPW is not available, related to study of elasticity of the Basin. Assuming all storage accounts at zero and a 50 percent water year, which SGPWA retailer would get the water, how much, and why, he asked. Information regarding prioritization is needed for planning purposes, he said. Eckhart said it is determined through projections in each agency's Urban Water Management Plan (UWMP) and SGPWA is working on a strategic portfolio plan. The unavailability of SPW has not yet been addressed, he added, and suggested improvements could be made in demand reduction and recycled water. SGPWA is pursuing the ability to maximize imports, but business certainty will be needed for making large purchases, mainly through urban planning. SGPWA reacts to the planned needs for the community it serves, he stated.

Member Jagers acknowledged the SGPWA work toward a solution. Chair Vela indicated that this discussion and any resulting goals will drive the way the SGPWA acts, noting discussions could be tense. Jagers pointed to previous conversations and said the group is working together.

Eckhart further discussed the SGPWA activities and water portfolio, emphasizing that the agency needs to know what the retailers need. Member Zoba suggested quarterly managers meetings.

Mr. Harder suggested a baseline as a means to evaluate different scenarios, then discussion of the appropriate use of water. The Judgment shows appropriator storage accounts as part of an equation that feeds into what is defined as the appropriator production right, he said. That was the only measure that looked at if the appropriator were to exceed the production right, then there would be a cause for funds going into bringing in surplus water. Part of the equation included the temporary surplus, he noted. The storage accounts are part of an equation to check whether or not the appropriators are then obligated to contribute funds to bring additional water into the Basin; it is not a physical measure but a check on production.

Member Zoba suggested adding this to a future agenda, saying he did not think the adjudication allows for going negative. Mr. Harder indicated that if going negative, the appropriator would have to contribute funds to buy the surplus water to make up the deficit. Member Zoba noted the potential for declining the Basin and argued it must remain at zero to stay sustainable. Mr. Campbell said if overpumping, there is an obligation to pay for replenishment with imported water when available. Zoba asked if that would then become a priority for water deliveries while shorting an agency that isn't negative. Jagers suggested this would apply to a demonstrated bad actor, which this area does not seem to have to date. All are doing their part, he noted, and must be proactive in wet years as partners.

Member Armstrong said he was glad the Basin is fairly healthy and commended the SGPWA on the recharge basins.

Members agreed the workshop format is good for discussion.

Mr. Stuart indicated that he and Mr. Harder would work together to move the process forward and present it at the next meeting. Mr. Harder said he would present scenarios to review and consider, but will get the safe yield done first.

Chair Vela invited public comment. There was none.

VI. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the Basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Evaluation of Storage Issues in the Basin	Tabled from 12/2/2021 meeting
G	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
H	Direction for use of different types of storage accounts	8/2/2023

I	Revision of Rules and Regulations: i. Committee participation by electeds ii. Mechanism for BBWM to collect funds if storage account is in deficit (Development of a rate for overproduction of right) iii. General modernization of rules and regulations iv. Clarification of overlier transfers process v. Proposal from Dudek for this work	8/2/2023
J	Process and categorization of water production for the annual report	8/2/2023
K	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023

VII. Comments from the Watermaster Committee Members

None.

VIII. Announcements

- A. The next meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, December 6, 2023, at 11:00 a.m.
- B. 2024 Meeting Dates:
- | | |
|----------------------------------|----------------------------|
| Wednesday, January 10 at 11 a.m. | Special Meeting / Workshop |
| Wednesday, February 7 at 11 a.m. | Regular Meeting |
| Wednesday, March 6 at 11 a.m. | Special Meeting / Workshop |
| Wednesday, April 3 at 11 a.m. | Regular Meeting |
| Wednesday, June 5 at 11 a.m. | Regular Meeting |
| Wednesday, August 7 at 11 a.m. | Regular Meeting |
| Wednesday, October 2 at 11 a.m. | Regular Meeting |
| Wednesday, December 4 at 11 a.m. | Regular Meeting |

XI. Adjournment

Chair Vela adjourned the meeting at 12:45 p.m.

Attest:


 Daniel Jaggers, Secretary
 Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, December 6, 2023**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave., Beaumont, CA 92223

I. Call to Order

Vice Chair David Armstrong called the meeting to order at 11:06 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Nathan Smith</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Robert Vestal</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joe Zoba</i>	<i>Present</i>

Hanibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (BBWM).

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart of Dudek was present as BBWM administrator.

Members of the public who registered and / or attended:

Brett Granlund, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Ashley Gibson, Yucaipa Valley Water District
Lance Eckhart, San Geronio Pass Water Agency
Emmett Campbell, San Geronio Pass Water Agency
Kevin Walton, San Geronio Pass Water Agency
Robert Rasha, Beaumont-Cherry Valley Water District
Cenica Smith, Beaumont-Cherry Valley Water District
Matthew Palavido, Dudek
Brittany Lim, South Mesa Water Company
Eddie Giraldo, Rain for Rent
Ed Bender, Rain for Rent

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes

- a. October 4, 2023 Regular Meeting
- b. November 1, 2023 Special Meeting

It was moved by Member Jaggars and seconded by Member Zoba to approve the October 4, 2023 meeting minutes.

AYES:	Armstrong, Jaggars, Smith, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	City of Beaumont
STATUS:	Motion Approved

It was moved by Member Jaggars and seconded by Member Zoba to approve the November 1, 2023 meeting minutes.

AYES:	Armstrong, Jaggars, Smith, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	City of Beaumont
STATUS:	Motion Approved

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through November 13, 2023

C. A Comparison of Production Rights versus Production through August 2023

It was moved by Member Jaggars and seconded by Member Zoba to approve Consent Calendar items A, B and C.

AYES:	Armstrong, Jaggars, Smith, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	City of Beaumont
STATUS:	Motion Approved

VI. Reports

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

Mr. Blandon reminded about failures of communication cables at the monitoring sites. Cables were ordered and received, and will be installed following the meeting.

An analysis of storage issues was prepared based on the question regarding different buckets that could exist, Blandon continued, and he asked if there were any questions. There were none.

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

Mr. Harder pointed to the 2024 scope of work and noted that technical memorandums prepared have costs associated. He explained that the attachments for items VII-A and VII-B were reversed. THC is in the process of putting together a scope of work with analysis of different basin operations to stress test the basin and identify potentially significant and unreasonable conditions. The intention is to present it at the next workshop.

- C. Report from Administrative Consultant – Steve Stuart, Dudek

Mr. Stuart reported that information is still being sought on well survey results from some of the parties in the basin. He is still working on the process of developing a schedule highlighting the many tasks for future discussion over the next couple of years.

- D. Report from Legal Counsel – Thierry Montoya - Frost, Brown, Todd

Mr. Montoya noted there is a vacancy for the City of Beaumont that will needs to be filled. He encouraged the City to contact him so that a motion can be filed with the Court for a new member and alternate.

BBWM Secretary Jagers said he would compose a short letter to the City to reiterate and move it forward.

VII. Discussion Items

- A. Proposal by Thomas Harder & Company / Alda to Provide Engineering and Reporting Services in 2024

Recommendation: Approve Task Order No. 5 for Engineering and Reporting Services in 2024 for a sum not to exceed \$95,690 and send invoices to each Watermaster Committee member for 20% of the approved amount

It was moved by Member Zoba and seconded by Member Jagers to approve Task Order No. 5 for Engineering and Reporting Services in 2024 for a sum not to exceed \$95,690 and send invoices to each Watermaster Committee member for 20% of the approved amount by the following vote:

AYES:	Armstrong, Jagers, Smith, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	City of Beaumont
STATUS:	Motion Approved

- B. Proposal by Thomas Harder & Company / Alda to Provide Groundwater Level Monitoring Services in 2024

Recommendation: Approve Task Order No. 6 for Groundwater Level Monitoring Services for a sum not to exceed \$28,120 and send invoices to each Watermaster Committee member for 20% of the approved amount

Member Jagers noted that the tables in the staff report were switched, and he clarified that the vote is on the recommendation plus the Task Order. The amounts in the discussion item are correct, Harder noted.

It was moved by Member Zoba and seconded by Member Jagers to approve Task Order No. 6 for Groundwater Level Monitoring Services for a sum not to exceed \$28,120 and send invoices to each Watermaster Committee member for 20% of the approved amount by the following vote:

AYES:	Armstrong, Jagers, Smith, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	City of Beaumont
STATUS:	Motion Approved

C. Update on the Safe Yield Reset of the Beaumont Basin

Recommendation: No recommendation

Mr. Harder advised this is still in progress, as the consultant feels the weight of making sure that it is as accurate as possible. It is hoped to be presented at the January meeting.

D. Review of Appropriator's Production Right Calculation

Recommendation: No recommendation

Mr. Stuart referred to Mr. Blandon's earlier presentation and measurement of production of groundwater in the basin. This is the measure of determining whether or not a particular pumper or appropriator would have to apply replenishment water or funds for replenishment water should they experience overproduction in a particular year, he explained.

Mr. Stuart reviewed several sections and concepts in the judgment. He requested direction from the Committee. Discussion touched on:

- 1. Possible limit in time on surplus water*
 - a. Judgment / rules do not speak to this*
 - b. Temporary surplus was to create additional capacity in the basin to help encourage or implement conjunctive use projects or increase the ability to store / capture more water in the basin*
 - c. Definition of stored water allows for only supplemental water (imported or recycled)*
 - d. If temporary surplus cannot be stored, it had to be used in the year it was provided*
 - e. Consider future action to redefine or add to the concept of stored water as part of the physical solution to include some of the other waters*
- 2. Physical solution would include looking at overall production of all appropriators in the basin vs. the surplus*
 - a. Ability to transfer between appropriators*
 - b. State required conservation goals have been met and storage accounts are stable*
- 3. New Yield*
 - a. not defined as supplemental water*
 - b. could be captured stormwater or diversion of streamflow*
- 4. Order of operation of water usage / Appropriator's Production Right*
 - a. Add a separate table for the storage account*
 - b. Remove supplemental water from the equation*

5. *Imported water and storage account management*
6. *Develop a process of accounting*
7. *This approach is consistent with the judgment and the concepts / legal cases that address these kinds of judgments, and is within the Committee's obligation and right to take this holistic view*

E. Update on Development of Data Management System

Recommendation: No recommendation.

Mr. Matthew Palavido shared the major updates since the last meeting including groundwater elevation readings and production information for all wells. The NOAA climate stations have been added with readings through December 1.

On Friday, Mr. Palavido said he would send out login information and instructions so agencies can provide feedback. There will be another discussion to show how to edit and add information.

Member Zoba asked if the NOAA data beyond the BBWM boundary could be added; Mr. Palavido said it could and pointed to some examples.

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Evaluation of Storage Issues in the Basin	Tabled from 12/2/2021 meeting
G	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022

H	Direction for use of different types of storage accounts	8/2/2023
I	Revision of Rules and Regulations: <ul style="list-style-type: none"> i. Mechanism for BBWM to collect funds if storage account is in deficit (Development of a rate for overproduction of right) ii. General modernization of rules and regulations iii. Clarification of overlier transfers process iv. Proposal from Dudek for this work 	8/2/2023
J	Process and categorization of water production for the annual report	8/2/2023

IX. Comments from the Watermaster Committee Members: None.

X. Announcements

- A. The next meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, January 10, 2024, at 11:00 a.m.
- B. 2024 Meeting Dates:
- | | |
|----------------------------------|-----------------|
| Wednesday, February 7 at 11 a.m. | Regular Meeting |
| Wednesday, March 6 at 11 a.m. | Special Meeting |
| Wednesday, April 3 at 11 a.m. | Regular Meeting |
| Wednesday, June 5 at 11 a.m. | Regular Meeting |
| Wednesday, August 7 at 11 a.m. | Regular Meeting |
| Wednesday, October 2 at 11 a.m. | Regular Meeting |
| Wednesday, December 4 at 11 a.m. | Regular Meeting |

XI. Adjournment

Vice Chair Armstrong adjourned the meeting at 11:43 a.m.

Attest:



Daniel Jaggars, Secretary
Beaumont Basin Watermaster

Appendix C

Active and Interested Party List

Beaumont Basin - 2023 Active and Interested Party List

City of Banning

Arturo Vela - Director of Public Works / City Eng.
99 E. Ramsey Street
Banning, CA 92220
avela@ci.banning.ca.us

Beaumont-Cherry Valley Water District

Dan Jagers, General Manager
560 Magnolia Avenue
Beaumont, CA 92223
dan.jagers@bcvwd.org

South Mesa Mutual Water Company

Dave Armstrong
Post Office Box 458
Calimesa, CA 92320
darmstrongsmwc@yahoo.com

San Bernardino Valley MWD

Douglas Headrick
380 East Vanderbilt Way
San Bernardino, CA 92408

California Oak Valley Golf and Resort, LLC.

Ron Sullivan
27710 Jefferson Avenue, Suite 301
Temecula, CA 92590

Albor Properties

Eric Borstein
12301 Wilshire Boulevard, Suite 302
Los Angeles, CA 90025

Plantation on the Lake

James Krueger
10961 Desert Lawn Drive
Calimesa, CA 92320
jimk@mrc1.com

Robert C. Newman

29455 Live Oak Canyon Road
Redlands, CA 92373
newman4governor@aol.com

Yucaipa Valley Water District

Joseph Zoba, General Manager
12770 Second Street
Yucaipa, CA 92399
jzoba@yvwd.dst.ca.us

City of Beaumont

Robert Vestal, Principal Engineer
550 East Sixth Street
Beaumont, CA 92223
rvestal@beaumontca.gov

San Geronio Pass Water Agency

Lance Eckhart, General Manager
1210 Beaumont Avenue
Beaumont, CA 92223
Leckhart@sgpwa.com

Oak Valley Partners, LP.

John Ohanian
Post Office Box 645
10410 Roberts Road
Calimesa, CA 92320

Sharondale Mesa Owners Association

Ira Pace
9525 Sharon Way
Calimesa, CA 92320
rbnib@msn.com

Merlin Properties, LLC.

Fred and Richard Reidman
6475 East Pacific Coast Highway, Suite 399
Long Beach, CA 90803
riedman@gte.net

Manheim, Manheim, and Berman

Steve Anderson, Esq.
Best, Best and Krieger
3750 University Avenue, Suite 400
Riverside, CA 92501

Niki Magee

38455 Vineland Street
Cherry Valley, CA 92223

Beaumont Basin - 2023 Active and Interested Party List

Judy Bingham

115 Viele Avenue
Beaumont, CA 92223

Robert Hawkins, Esq.

14 Corporate Plaza
Ste 120
Newport Beach, CA 92660

Thomas Harder and Company

Thomas Harder
1260 N. Hancock, Suite 109
Anaheim, CA 92807
tharder@thomashardercompany.com
714.792.3875

Latham and Watkins, LLP.

Paul Singarella, Esq.
650 Town Center Drive, 20th Floor
Costa Mesa, CA 92626-1925

Alda, Inc.

Anibal Blandon
5928 Vineyard Avenue
Rancho Cucamonga, CA 91701
blandon@aldaengineering.com
909.587.9916

Appendix D

Fiscal Year 2022-23 Audit Letter

**BEAUMONT BASIN WATERMASTER
INDEPENDENT ACCOUNTANT'S REPORT ON APPLYING
AGREED-UPON PROCEDURES
ON THE BEAUMONT BASIN WATERMASTER SCHEDULES
JUNE 30, 2023**



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

735 E. Carnegie Dr. Suite 100
San Bernardino, CA 92408
909 889 0871 T
909 889 5361 F
ramscpa.net

Independent Accountant's Report

PARTNERS

Terry P. Shea, CPA
Scott W. Manno, CPA, CGMA
Leena Shaabag, CPA, MST, CGMA
Bradford A. Welebit, CPA, MBA, CGMA
Jenny W. Liu, CPA, MST
Gardenia Duran, CPA, CGMA
Brian Schultz, CPA, CGMA
Brenda L. Odle, CPA, MST (Partner Emeritus)

MANAGERS / STAFF

Seong-Hyea Lee, CPA, MBA
Evelyn Morentin-Barcena, CPA
Veronica Hernandez, CPA
Laura Arvizu, CPA
John Makdonado, CPA, MSA
Jula Rodriguez Fuentes, CPA, MSA
Demi Hite, CPA
Jeffrey McKennan, CPA

MEMBERS

American Institute of
Certified Public Accountants

PCPs The AICPA Alliance
for CPA Firms

Governmental Audit
Quality Center

California Society of
Certified Public Accountants

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

We have performed the procedures enumerated below on the Watermaster Schedules (Schedules), attached as Exhibit A and Exhibit B, on the full accrual basis of accounting as of June 30, 2023, and for the year then ended. Yucaipa Valley Water District (the District) management, as treasurer of the Beaumont Basin Watermaster (the Watermaster), is responsible for the Schedules.

The District, the Watermaster and its member agencies have agreed to and acknowledged that the procedures performed are appropriate to meet the intended purpose of evaluating certain amounts reported in the Schedules, attached as Exhibit A and Exhibit B, on the full accrual basis of accounting as of June 30, 2023, and for the year then ended and its compliance with the Rules and Regulations regarding assessments and expenses. Additionally, the Watermaster has agreed to and acknowledged that the procedures performed are appropriate to meet their purposes. This report may not be suitable for any other purpose. The procedures performed may not address all the items of interest to a user of this report and may not meet the needs of all users of this report and, as such, users are responsible for determining whether the procedures performed are appropriate for their purposes.

The procedures and the associated 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, 2022.

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.

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, 2022 to the beginning check number for the period beginning on July 1, 2022. Note any breaks in check sequence for the period of July 1, 2022 through June 30, 2023.

Finding

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

5. Procedure

Based on the population of checks issued during July 1, 2022 through June 30, 2023, 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, 2022 to June 30, 2023. 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.

We were engaged by the District, the Watermaster, and its member agencies to perform this agreed-upon procedures engagement and conducted our engagement in accordance with attestation standards established by the AICPA. 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 schedule of assets, liabilities and net position (Exhibit A) and the schedule 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.

We are required to be independent of the District, the Watermaster and its member agencies and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements related to our agreed-upon procedures engagement.

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 31, 2023
San Bernardino, California

Exhibit A

**Beaumont Basin Watermaster
Schedule of Assets, Liabilities and Net Position
(Unaudited)
June 30, 2023**

Assets

Cash and cash equivalents	\$ 324,334
Accounts receivable	<u>263</u>
Total assets	<u>324,597</u>

Liabilities

Accounts payable	<u>-</u>
------------------	----------

Net position

Unrestricted	<u><u>\$ 324,597</u></u>
--------------	--------------------------

Exhibit B

**Beaumont Basin Watermaster
Schedule of Revenues and Expenses
(Unaudited)
For the year ended June 30, 2023**

Revenues	
Assessments	\$ 433,208
Interest	<u>104</u>
Total revenues	<u>433,312</u>
Expenses	
Special projects	
Acquisition/computation and annual report	86,683
Engineering	150,700
Monitoring and data acquisition	36,375
Administrative	
Legal and professional	19,617
Bank charges	<u>33</u>
Total expenses	<u>293,408</u>
Change in net position	139,904
Unrestricted net position, beginning of year	<u>184,693</u>
Unrestricted net position, end of year	<u><u>\$ 324,597</u></u>

Appendix E

Production Estimation Methods for Unmetered Overlying Producers

University of California Riverside - CIMIS Station 44

Monthly Evapotranspiration Values - 2003 through 2023

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2003	3.05	2.57	4.61	5.00	5.65	5.16	7.05	7.46	5.54	4.08	2.23	2.07	54.47
2004	2.49	2.76	4.81	5.90	7.10	6.50	7.55	6.81	5.83	3.39	2.44	2.30	57.88
2005	2.02	2.21	3.93	5.41	6.47	6.49	7.28	6.68	5.32	3.65	2.84	2.15	54.45
2006	2.92	3.35	3.42	4.26	6.02	7.16	7.73	7.20	5.70	3.95	3.14	2.94	57.79
2007	3.28	2.91	5.02	5.04	6.47	7.16	7.57	7.09	5.44	4.34	2.81	2.24	59.37
2008	1.69	2.31	5.30	6.04	6.28	7.59	7.53	7.23	5.79	5.02	3.14	1.89	59.81
2009	3.32	2.41	4.62	5.58	6.32	5.37	7.60	6.68	5.89	4.40	3.18	2.08	57.45
2010	2.35	2.44	4.67	5.11	6.18	6.25	6.57	6.99	5.45	2.10	3.22	1.78	53.11
2011	2.91	2.91	4.22	5.57	6.67	6.95	7.76	7.65	5.47	4.03	2.45	2.82	59.41
2012	3.02	3.41	4.51	5.85	7.00	7.62	7.93	7.84	6.44	4.38	2.72	1.70	62.42
2013	2.72	3.18	4.80	5.71	7.01	7.36	7.13	7.37	6.14	4.27	2.76	2.80	61.25
2014	3.27	3.03	4.95	6.52	7.65	7.61	7.77	7.29	6.19	4.52	3.21	2.01	64.02
2015	2.84	3.32	5.85	6.28	5.37	7.46	6.75	7.66	5.81	4.22	2.77	2.35	60.68
2016	2.09	4.29	4.92	6.04	6.21	7.21	7.74	6.88	5.30	3.87	3.18	1.99	59.72
2017	1.81	2.08	5.01	6.13	5.95	6.98	7.11	6.40	4.92	4.54	2.35	3.09	56.37
2018	2.41	3.17	3.81	5.69	5.57	7.61	8.04	7.35	5.86	4.30	3.13	2.24	59.18
2019	2.29	2.37	4.36	5.90	4.95	6.49	8.03	7.68	5.76	5.11	3.05	1.81	57.80
2020	2.65	3.71	3.66	4.83	7.25	6.42	8.17	7.74	6.33	4.81	3.22	2.70	61.49
2021	2.98	3.51	4.66	5.87	6.45	7.41	8.10	7.14	5.86	4.03	3.31	1.52	60.84
2022	3.01	3.96	5.39	6.05	6.54	7.96	8.15	7.86	5.74	3.87	2.97	1.77	63.27
2023	2.21	2.85	3.29	5.73	5.54	5.91	8.51	7.47	4.95	4.70	3.41	2.29	56.86

Crop Coefficient (Warm Season Bermuda Grass)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Kc	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

Indoor Water Use: 0.35 ac-ft/yr/du

Irrigation Efficient 70%

Estimated Pumping - All Unmetered Accounts

Year	Total Use
2004	466.11
2005	443.64
2006	81.28
2007	12.23
2008	13.78
2009	13.47
2010	11.85

Year	Total Use
2011	12.67
2012	13.07
2013	12.91
2014	13.28
2015	12.84
2016	12.71
2017	12.28

Year	Total Use
2018	12.64
2019	12.46
2020	12.94
2021	12.86
2022	13.18
2023	12.34

Monthly Water Requirements (inches)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2004	1.74	1.93	3.37	4.13	4.97	4.55	5.29	4.77	4.08	2.37	1.71	1.61	40.52
2005	1.41	1.55	2.75	3.79	4.53	4.54	5.10	4.68	3.72	2.56	1.99	1.51	38.12
2006	2.04	2.35	2.39	2.98	4.21	5.01	5.41	5.04	3.99	2.77	2.20	2.06	40.45
2007	2.30	2.04	3.51	3.53	4.53	5.01	5.30	4.96	3.81	3.04	1.97	1.57	41.56
2008	1.18	1.62	3.71	4.23	4.40	5.31	5.27	5.06	4.05	3.51	2.20	1.32	41.87
2009	2.32	1.69	3.23	3.91	4.42	3.76	5.32	4.68	4.12	3.08	2.23	1.46	40.22
2010	1.65	1.71	3.27	3.58	4.33	4.38	4.60	4.89	3.82	1.47	2.25	1.25	37.18
2011	2.04	2.04	2.95	3.90	4.67	4.87	5.43	5.36	3.83	2.82	1.72	1.97	41.59
2012	2.11	2.39	3.16	4.10	4.90	5.33	5.55	5.49	4.51	3.07	1.90	1.19	43.69
2013	1.90	2.23	3.36	4.00	4.91	5.15	4.99	5.16	4.30	2.99	1.93	1.96	42.88
2014	2.29	2.12	3.47	4.56	5.36	5.33	5.44	5.10	4.33	3.16	2.25	1.41	44.81
2015	1.99	2.32	4.10	4.40	3.76	5.22	4.73	5.36	4.07	2.95	1.94	1.65	42.48
2016	1.46	3.00	3.44	4.23	4.35	5.05	5.42	4.82	3.71	2.71	2.23	1.39	41.80
2017	1.27	1.46	3.51	4.29	4.17	4.89	4.98	4.48	3.44	3.18	1.65	2.16	39.46
2018	1.69	2.22	2.67	3.98	3.90	5.33	5.63	5.15	4.10	3.01	2.19	1.57	41.43
2019	1.60	1.66	3.05	4.13	3.47	4.54	5.62	5.38	4.03	3.58	2.14	1.27	40.46
2020	1.86	2.60	2.56	3.38	5.08	4.49	5.72	5.42	4.43	3.37	2.25	1.89	43.04
2021	2.09	2.46	3.26	4.11	4.52	5.19	5.67	5.00	4.10	2.82	2.32	1.06	42.59
2022	2.11	2.77	3.77	4.24	4.58	5.57	5.71	5.50	4.02	2.71	2.08	1.24	44.29
2023	1.55	2.00	2.30	4.01	3.88	4.14	5.96	5.23	3.47	3.29	2.39	1.60	39.80

Estimated Pumping by Merlin Properties

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	48	3	1.05	0.11	0.37	0.53	1.58
2005	48	3	1.05	0.11	0.35	0.50	1.55
2006	48	3	1.05	0.11	0.37	0.53	1.58
2007	48	3	1.05	0.11	0.38	0.54	1.59
2008	48	3	1.05	0.11	0.38	0.55	1.60
2009	48	3	1.05	0.11	0.37	0.53	1.58
2010	48	3	1.05	0.11	0.34	0.49	1.54
2011	48	3	1.05	0.11	0.38	0.54	1.59
2012	48	3	1.05	0.11	0.40	0.57	1.62
2013	48	3	1.05	0.11	0.39	0.56	1.61
2014	48	3	1.05	0.11	0.41	0.59	1.64
2015	48	3	1.05	0.11	0.39	0.56	1.61
2016	48	3	1.05	0.11	0.38	0.55	1.60
2017	48	3	1.05	0.11	0.36	0.52	1.57
2018	48	3	1.05	0.11	0.38	0.54	1.59
2019	48	3	1.05	0.11	0.37	0.53	1.58
2020	48	3	1.05	0.11	0.39	0.56	1.61
2021	48	3	1.05	0.11	0.39	0.56	1.61
2022	48	3	1.05	0.11	0.41	0.58	1.63
2023	48	3	1.05	0.11	0.36	0.52	1.57

Estimated Pumping by Roman Catholic Bishop of San Bernardino

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	34	2	0.70	12.10	40.85	58.36	59.06
2005	34	2	0.70	12.10	38.43	54.90	55.60
2006	34	2	0.70	12.10	40.79	58.27	58.97
2007	34	2	0.70	0.00	0.00	0.00	0.70
2008	34	2	0.70	0.00	0.00	0.00	0.70
2009	34	2	0.70	0.00	0.00	0.00	0.70
2010	34	0	0.00	0.00	0.00	0.00	0.00
2011	34	0	0.00	0.00	0.00	0.00	0.00
2012	34	0	0.00	0.00	0.00	0.00	0.00
2013	34	0	0.00	0.00	0.00	0.00	0.00
2014	34	0	0.00	0.00	0.00	0.00	0.00
2015	34	0	0.00	0.00	0.00	0.00	0.00
2016	34	0	0.00	0.00	0.00	0.00	0.00
2017	34	0	0.00	0.00	0.00	0.00	0.00
2018	34	0	0.00	0.00	0.00	0.00	0.00
2019	34	0	0.00	0.00	0.00	0.00	0.00
2020	34	0	0.00	0.00	0.00	0.00	0.00
2021	34	0	0.00	0.00	0.00	0.00	0.00
2022	34	0	0.00	0.00	0.00	0.00	0.00
2023	34	0	0.00	0.00	0.00	0.00	0.00

Estimated Pumping by Leonard Stearns

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	91	3	1.05	0.00	0.00	0.00	1.05
2005	91	3	1.05	0.00	0.00	0.00	1.05
2006	91	3	1.05	0.00	0.00	0.00	1.05
2007	91	3	1.05	0.00	0.00	0.00	1.05
2008	91	3	1.05	0.00	0.00	0.00	1.05
2009	91	3	1.05	0.00	0.00	0.00	1.05
2010	91	2	0.70	0.00	0.00	0.00	0.70
2011	91	2	0.70	0.00	0.00	0.00	0.70
2012	91	2	0.70	0.00	0.00	0.00	0.70
2013	91	2	0.70	0.00	0.00	0.00	0.70
2014	91	2	0.70	0.00	0.00	0.00	0.70
2015	91	2	0.70	0.00	0.00	0.00	0.70
2016	91	2	0.70	0.00	0.00	0.00	0.70
2017	91	2	0.70	0.00	0.00	0.00	0.70
2018	91	2	0.70	0.00	0.00	0.00	0.70
2019	91	2	0.70	0.00	0.00	0.00	0.70
2020	91	2	0.70	0.00	0.00	0.00	0.70
2021	91	2	0.70	0.00	0.00	0.00	0.70
2022	91	2	0.70	0.00	0.00	0.00	0.70
2023	91	2	0.70	0.00	0.00	0.00	0.70

Estimated Pumping by Sunny Cal

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Number of Chickens	Chicken Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	200	10	3.50	1,200,000	80.65	66.40	224.19	320.27	404.42
2005	200	10	3.50	1,200,000	80.65	66.40	210.90	301.29	385.44
2006	185	2	0.70	0.00	0.00	0.40	1.35	1.93	2.63
2007	185	2	0.70	0.00	0.00	0.40	1.39	1.98	2.68
2008	185	2	0.70	0.00	0.00	0.70	2.44	3.49	4.19
2009	185	2	0.70	0.00	0.00	0.70	2.35	3.35	4.05
2010	185	2	0.70	0.00	0.00	0.70	2.17	3.10	3.80
2011	185	2	0.70	0.00	0.00	0.70	2.43	3.47	4.17
2012	185	2	0.70	0.00	0.00	0.70	2.55	3.64	4.34
2013	185	2	0.70	0.00	0.00	0.70	2.50	3.57	4.27
2014	185	2	0.70	0.00	0.00	0.70	2.61	3.73	4.43
2015	185	2	0.70	0.00	0.00	0.70	2.48	3.54	4.24
2016	185	2	0.70	0.00	0.00	0.70	2.44	3.48	4.18
2017	185	2	0.70	0.00	0.00	0.70	2.30	3.29	3.99
2018	185	2	0.70	0.00	0.00	0.70	2.42	3.45	4.15
2019	185	2	0.70	0.00	0.00	0.70	2.36	3.37	4.07
2020	185	2	0.70	0.00	0.00	0.70	2.51	3.59	4.29
2021	185	2	0.70	0.00	0.00	0.70	2.48	3.55	4.25
2022	185	2	0.70	0.00	0.00	0.70	2.58	3.69	4.39
2023	185	2	0.70	0.00	0.00	0.70	2.32	3.32	4.02

Water consumption per chicken estimated at 6.0 gal/100 chickens

Estimated Pumping by Albor Properties

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	122	2	0.70	2.60	8.76	12.52	13.22
2007	122	1	0.35	0.40	1.39	1.98	2.33
2008	122	1	0.35	0.40	1.40	1.99	2.34
2009	122	1	0.35	0.40	1.34	1.92	2.27
2010	122	1	0.35	0.40	1.24	1.77	2.12
2011	122	1	0.35	0.40	1.39	1.98	2.33
2012	122	1	0.35	0.40	1.46	2.08	2.43
2013	122	1	0.35	0.40	1.43	2.04	2.39
2014	122	1	0.35	0.40	1.49	2.13	2.48
2015	122	1	0.35	0.40	1.42	2.02	2.37
2016	122	1	0.35	0.40	1.39	1.99	2.34
2017	122	1	0.35	0.40	1.32	1.88	2.23
2018	122	1	0.35	0.40	1.38	1.97	2.32
2019	122	1	0.35	0.40	1.35	1.93	2.28
2020	122	1	0.35	0.40	1.43	2.05	2.40
2021	122	1	0.35	0.40	1.42	2.03	2.38
2022	122	1	0.35	0.40	1.48	2.11	2.46
2023	122	1	0.35	0.40	1.33	1.90	2.25

Estimated Pumping by Nikodinov

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	10	1	0.35	0.08	0.27	0.39	0.74
2007	10	1	0.35	0.08	0.28	0.40	0.75
2008	10	1	0.35	0.08	0.28	0.40	0.75
2009	10	1	0.35	0.08	0.27	0.38	0.73
2010	10	1	0.35	0.08	0.25	0.35	0.70
2011	10	1	0.35	0.08	0.28	0.40	0.75
2012	10	1	0.35	0.08	0.29	0.42	0.77
2013	10	1	0.35	0.08	0.29	0.41	0.76
2014	10	1	0.35	0.08	0.30	0.43	0.78
2015	10	1	0.35	0.08	0.28	0.40	0.75
2016	10	1	0.35	0.08	0.28	0.40	0.75
2017	10	1	0.35	0.08	0.26	0.38	0.73
2018	10	1	0.35	0.08	0.28	0.39	0.74
2019	10	1	0.35	0.08	0.27	0.39	0.74
2020	10	1	0.35	0.08	0.29	0.41	0.76
2021	10	1	0.35	0.08	0.28	0.41	0.76
2022	10	1	0.35	0.08	0.30	0.42	0.77
2023	10	1	0.35	0.08	0.27	0.38	0.73

Estimated Pumping by McAmis

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	0.9	1	0.35	0.04	0.13	0.19	0.54
2007	0.9	1	0.35	0.04	0.14	0.20	0.55
2008	0.9	1	0.35	0.04	0.14	0.20	0.55
2009	0.9	1	0.35	0.04	0.13	0.19	0.54
2010	0.9	1	0.35	0.04	0.12	0.18	0.53
2011	0.9	1	0.35	0.04	0.14	0.20	0.55
2012	0.9	1	0.35	0.04	0.15	0.21	0.56
2013	0.9	1	0.35	0.04	0.14	0.20	0.55
2014	0.9	1	0.35	0.04	0.15	0.21	0.56
2015	0.9	1	0.35	0.04	0.14	0.20	0.55
2016	0.9	1	0.35	0.04	0.14	0.20	0.55
2017	0.9	1	0.35	0.04	0.13	0.19	0.54
2018	0.9	1	0.35	0.04	0.14	0.20	0.55
2019	0.9	1	0.35	0.04	0.13	0.19	0.54
2020	0.9	1	0.35	0.04	0.14	0.20	0.55
2021	0.9	1	0.35	0.04	0.14	0.20	0.55
2022	0.9	1	0.35	0.04	0.15	0.21	0.56
2023	0.9	1	0.35	0.04	0.13	0.19	0.54

Estimated Pumping by Aldama

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	1.4	1	0.35	0.10	0.34	0.48	0.83
2007	1.4	1	0.35	0.10	0.35	0.49	0.84
2008	1.4	1	0.35	0.10	0.35	0.50	0.85
2009	1.4	1	0.35	0.10	0.34	0.48	0.83
2010	1.4	1	0.35	0.10	0.31	0.44	0.79
2011	1.4	1	0.35	0.10	0.35	0.50	0.85
2012	1.4	1	0.35	0.10	0.36	0.52	0.87
2013	1.4	1	0.35	0.10	0.36	0.51	0.86
2014	1.4	1	0.35	0.10	0.37	0.53	0.88
2015	1.4	1	0.35	0.10	0.35	0.51	0.86
2016	1.4	1	0.35	0.10	0.35	0.50	0.85
2017	1.4	1	0.35	0.10	0.33	0.47	0.82
2018	1.4	1	0.35	0.10	0.35	0.49	0.84
2019	1.4	1	0.35	0.10	0.34	0.48	0.83
2020	1.4	1	0.35	0.10	0.36	0.51	0.86
2021	1.4	1	0.35	0.10	0.35	0.51	0.86
2022	1.4	1	0.35	0.10	0.37	0.53	0.88
2023	1.4	1	0.35	0.10	0.33	0.47	0.82

Estimated Pumping by Gutierrez

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	2	2	0.70	0.14	0.47	0.67	1.37
2007	2	2	0.70	0.14	0.48	0.69	1.39
2008	2	2	0.70	0.14	0.49	0.70	1.40
2009	2	2	0.70	0.14	0.47	0.67	1.37
2010	2	2	0.70	0.14	0.43	0.62	1.32
2011	2	2	0.70	0.14	0.49	0.69	1.39
2012	2	2	0.70	0.14	0.51	0.73	1.43
2013	2	2	0.70	0.14	0.50	0.71	1.41
2014	2	2	0.70	0.14	0.52	0.75	1.45
2015	2	2	0.70	0.14	0.50	0.71	1.41
2016	2	2	0.70	0.14	0.49	0.70	1.40
2017	2	2	0.70	0.14	0.46	0.66	1.36
2018	2	2	0.70	0.14	0.48	0.69	1.39
2019	2	2	0.70	0.14	0.47	0.67	1.37
2020	2	2	0.70	0.14	0.50	0.72	1.42
2021	2	2	0.70	0.14	0.50	0.71	1.41
2022	2	2	0.70	0.14	0.52	0.74	1.44
2023	2	2	0.70	0.14	0.46	0.66	1.36

Estimated Pumping by Damont

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	0.5	1	0.35	0.00	0.00	0.00	0.35
2007	0.5	1	0.35	0.00	0.00	0.00	0.35
2008	0.5	1	0.35	0.00	0.00	0.00	0.35
2009	0.5	1	0.35	0.00	0.00	0.00	0.35
2010	0.5	1	0.35	0.00	0.00	0.00	0.35
2011	0.5	1	0.35	0.00	0.00	0.00	0.35
2012	0.5	1	0.35	0.00	0.00	0.00	0.35
2013	0.5	1	0.35	0.00	0.00	0.00	0.35
2014	0.5	1	0.35	0.00	0.00	0.00	0.35
2015	0.5	1	0.35	0.00	0.00	0.00	0.35
2016	0.5	1	0.35	0.00	0.00	0.00	0.35
2017	0.5	1	0.35	0.00	0.00	0.00	0.35
2018	0.5	1	0.35	0.00	0.00	0.00	0.35
2019	0.5	1	0.35	0.00	0.00	0.00	0.35
2020	0.5	1	0.35	0.00	0.00	0.00	0.35
2021	0.5	1	0.35	0.00	0.00	0.00	0.35
2022	0.5	1	0.35	0.00	0.00	0.00	0.35
2023	0.5	1	0.35	0.00	0.00	0.00	0.35

Appendix F

Supporting Documentation Provided by YVWD on September 18, 2023 as part of the Transfer of Overlying Water Rights from Oak Valley Partners to YVWD

BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 23-25

Date: October 4, 2023

From: Joseph B. Zoba

Subject: Transfer of Overlying Water Rights from Oak Valley Partners to Yucaipa Valley Water District for Calendar Years 2018, 2019, 2020, 2021, and 2022

Recommendation: Receive and file the transfer of Overlying Water Rights from Oak Valley Partners to Yucaipa Valley Water District for Calendar Years 2018-2022 and update the appropriate records in the 2023 Annual Report to reflect the transfers.

On August 30, 2017, the Beaumont Basin Watermaster adopted Resolution No. 2017-02 approving the transfer of water rights to specific parcels owned by Oak Valley Partners. Section 2 of this resolution states that "once OVP [Oak Valley Partners] and/or its successors or assigns secures commitments from the YVWD [Yucaipa Valley Water District] to provide water service to the development phases of the Project, and when water service is provided to the designated Project parcels, then the overlying water rights for those Project parcels shall be transferred to YVWD."

Yucaipa Valley Water District filed an executed Form 5 to the Beaumont Basin Watermaster dated November 19, 2019 which Earmarked all of the Overlying Water Rights from Oak Valley Partners to Yucaipa Valley Water District. The filing of Form 5 reserves 1,806 acre feet / 1,398.90 acre feet of Overlying Water Rights with the transfer of Overlying Water Rights being perfected based on the amount of water served to the Project parcels identified in Resolution No. 2017-02.

On September 19, 2023, the attached documents were transmitted to Dan Jagers, Secretary of the Beaumont Basin Watermaster. The following table summarizes the Overlying Water Right transfers from Oak Valley Partners to Yucaipa Valley Water District.

Calendar Year	Annual Volume of Retail Water Served by YVWD to OVP (AF)	Cumulative Volume of Retail Water Served by YVWD to OVP (AF)	Annual Transfer of Water Rights from OVP to YVWD (AF)	Cumulative Transfer of Water Rights from OVP to YVWD (AF)
2018	0.11	0.11	0.11	0.11
2019	63.96	64.07	63.85	63.96
2020	194.82	258.89	130.86	194.82
2021	366.77	625.66	171.95	366.77
2022	478.25	1,103.91	111.48	478.25

Based on the amount of Overlying Water Rights transferred to Yucaipa Valley Water District for each calendar year, the corresponding Overlying Water Rights should be reduced from the Overlying Water Rights of Oak Valley Partners in the Judgment, Exhibit B (and future subsequent redeterminations of the safe yield) and credited to Yucaipa Valley Water District as an Overlying Water Right.

This transfer of Overlying Water Rights should be retroactively applied and documented in the appropriate tables in the 2023 annual report of the Beaumont Basin Watermaster as well as any other subsequent annual reports and related documents.

Attachments:

- Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2018 – See page 3 of 85
- Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2019 – See page 13 of 85
- Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2020 – See page 27 of 85
- Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2021 – See page 45 of 85
- Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2022 – See page 65 of 85

RESOLUTION NO. 2017-02

A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER APPROVING THE TRANSFER OF OVERLYING WATER RIGHTS TO SPECIFIC PARCELS

WHEREAS, the Stipulated Judgment establishing the Beaumont Basin Watermaster (Riverside Superior Court Case No. 389197) ("Adjudication") was filed with the Superior Court of California, County of Riverside on February 4, 2004; and

WHEREAS, Oak Valley Partners, L.P. ("OVP") was designated as holding Overlying Water Rights within the Adjudication, with an overall water amount of 1806 acre-feet/year spread over 5,331.65 acres under the then-specified Safe Yield of the basin as described in the Adjudication. As specified in the Adjudication, OVP's property consists of numerous assessor parcels that are identified within Exhibit D of the Adjudication ("OVP Adjudication Parcels"). Section III, 3(G) of the Adjudication outlines OVP's intended development of its property and specifies the process that OVP may utilize to arrange the transfer of its Overlying Water Rights to particular development parcels eventually to be serviced by one or more retail water service providers upon annexation; and

WHEREAS, OVP now desires to have its designated Overlying Water Rights acknowledged in the Adjudication assigned to the requisite Assessor Parcel Numbers within the Summerwind Ranch Specific Plan ("Project") that correlate to certain of the OVP Adjudication Parcels; and

WHEREAS, the OVP Adjudication Parcels listed on Exhibit D of the Adjudication that correlate to the Project parcels and which total 2409.02 acres include the following parcel numbers from Exhibit D:

- 413-040-002;
- 413-160-003 through 007;
- 413-170-020, 021, 023, 027 through 031, 033, and 035;
- 413-180-017 and 019;
- 413-190-001 and 011;
- 413-200-002, 010, 014, 015, 020, 023, 024, 026 through 030, and 034 through 037;
- 413-290-003 and 007;
- 413-460-038; and

WHEREAS, the Assessor Parcel Numbers for the Project parcels that correlate to the above-designated OVP Adjudication Parcels as contained in Exhibit D to the Adjudication are listed and specified in Exhibit 1 attached hereto; and

WHEREAS, OVP desires that Watermaster approve the transfer of all of OVP's Overlying Water Rights designated within the Adjudication to the Project parcels identified in Exhibit 1 attached hereto for the development of the Project by OVP and its successors and/or assigns; and

WHEREAS, OVP further intends to secure commitments from the Yucaipa Valley Water District to provide water service to development phases of the Project, and requests that when those commitments are made and water service is provided to the designated Project parcels that the Overlying Water Rights for those Project parcels be transferred to the Yucaipa Valley Water District ("YVWD") consistent with the Adjudication.

NOW, THEREFORE, BE IT RESOLVED BY THE BEAUMONT BASIN WATERMASTER as follows:

1. Transfer of Overlying Water Rights. Watermaster hereby approves the transfer of all of OVP's Overlying Water Rights to the Project parcels listed on Exhibit 1 attached hereto to provide for the development phases of the Project by OVP and its successors/assigns. OVP shall immediately inform Watermaster of any successor or assign who takes ownership of one or more Project parcels listed on Exhibit 1 to which Overlying Water Rights have been transferred. As of this time, the amount of water associated with the OVP Overlying Water Rights is consistent with the relationship between the redetermined safe yield (6700 acre-feet) and the original Safe Yield (8650 acre-feet), or in other words 77.5% of the original amount identified to OVP in Exhibit B to the Adjudication.

2. Transfer of Rights on Confirmed Water Service by YVWD. Once OVP and/or its successor(s) or assigns secures commitments from the Yucaipa Valley Water District to provide water service to the development phases of the Project, and when water service is provided to the designated Project parcels, then the overlying water rights for those Project parcels shall be transferred to YVWD. YVWD shall report to Watermaster when it has provided retail water service to various properties making up portions of the Project and Watermaster shall account for the same consistent with Section VI, 5. W. of the Adjudication.

3. Use of Wells. The existing and future wells on the Project parcels may be used to extract water for use on the Project parcels and/or any remaining OVP parcels, consistent with the Adjudication and current and future Watermaster rules, regulations and policies.

4. Further Documentation or Action. The Chief of Watermaster Services or Watermaster Engineer is hereby authorized and directed to execute such further documents and instruments, and take such further action, as shall be reasonably required to carry out the purposes and intent of this resolution.

5. Effective Date. The effective date of this resolution is August 30, 2017.

PASSED AND ADOPTED by the Beaumont Basin Watermaster this 30th day of August 2017.

BEAUMONT BASIN WATERMASTER

By: 
Art Vela, Chairman of the
Beaumont Basin Watermaster

[illegible]

* FULLY APPROVED ASSOCIATION PARTNER MEMBER

OVERLY NOCTIS WATER TIGHTER AUSA

ASSESSOR PARCEL	OWNER
413-139-016	SAN Geronimo LAND
413-139-036	SAN Geronimo LAND
413-139-038	SAN Geronimo LAND
413-139-039	SAN Geronimo LAND
413-139-040	SAN Geronimo LAND
413-139-041	SAN Geronimo LAND
413-139-042	SAN Geronimo LAND
413-139-043	SAN Geronimo LAND
413-139-044	SAN Geronimo LAND
413-139-045	SAN Geronimo LAND
413-139-046	SAN Geronimo LAND
413-139-047	SAN Geronimo LAND
413-139-048	SAN Geronimo LAND
413-139-049	SAN Geronimo LAND
413-139-050	SAN Geronimo LAND
413-139-051	SAN Geronimo LAND
413-139-052	SAN Geronimo LAND
413-139-053	SAN Geronimo LAND
413-139-054	SAN Geronimo LAND
413-139-055	SAN Geronimo LAND
413-139-056	SAN Geronimo LAND
413-139-057	SAN Geronimo LAND
413-139-058	SAN Geronimo LAND
413-139-059	SAN Geronimo LAND
413-139-060	SAN Geronimo LAND
413-139-061	SAN Geronimo LAND
413-139-062	SAN Geronimo LAND
413-139-063	SAN Geronimo LAND
413-139-064	SAN Geronimo LAND
413-139-065	SAN Geronimo LAND
413-139-066	SAN Geronimo LAND
413-139-067	SAN Geronimo LAND
413-139-068	SAN Geronimo LAND
413-139-069	SAN Geronimo LAND
413-139-070	SAN Geronimo LAND
413-139-071	SAN Geronimo LAND
413-139-072	SAN Geronimo LAND
413-139-073	SAN Geronimo LAND
413-139-074	SAN Geronimo LAND
413-139-075	SAN Geronimo LAND
413-139-076	SAN Geronimo LAND
413-139-077	SAN Geronimo LAND
413-139-078	SAN Geronimo LAND
413-139-079	SAN Geronimo LAND
413-139-080	SAN Geronimo LAND
413-139-081	SAN Geronimo LAND
413-139-082	SAN Geronimo LAND
413-139-083	SAN Geronimo LAND
413-139-084	SAN Geronimo LAND
413-139-085	SAN Geronimo LAND
413-139-086	SAN Geronimo LAND
413-139-087	SAN Geronimo LAND
413-139-088	SAN Geronimo LAND
413-139-089	SAN Geronimo LAND
413-139-090	SAN Geronimo LAND
413-139-091	SAN Geronimo LAND
413-139-092	SAN Geronimo LAND
413-139-093	SAN Geronimo LAND
413-139-094	SAN Geronimo LAND
413-139-095	SAN Geronimo LAND
413-139-096	SAN Geronimo LAND
413-139-097	SAN Geronimo LAND
413-139-098	SAN Geronimo LAND
413-139-099	SAN Geronimo LAND
413-139-100	SAN Geronimo LAND

(6)	41.3-39.0-0.7	QMW VALLEY PACIFIC INC.
(7)	41.3-38.0-3.04	QMW VALLEY PACIFIC INC.
(8)	41.3-37.0-0.7	QMW VALLEY PACIFIC INC.
(9)	41.3-36.2-1.0	QMW VALLEY PACIFIC INC.

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

[Signature]
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

[Signature]
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:



Yucaipa Valley Water District

12770 Second Street • Post Office Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.us

September 18, 2023

Beaumont Basin Watermaster
c/o Dan Jagers, Secretary
560 Magnolia Avenue
Beaumont, California 92223

Transmitted via Email

Subject: Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2018

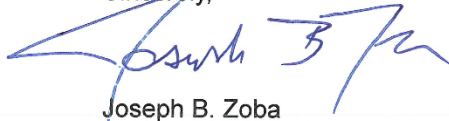
Dear Mr. Jagers:

On November 20, 2019, the Yucaipa Valley Water District transmitted the executed Beaumont Basin Watermaster Form 5 – *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service* by an Appropriator for the Oak Valley Partners (attached).

Please find attached the documentation requested by the Watermaster Committee to effectuate the permanent transfer of 0.11 acre feet (35 kgal) of Overlying Water Rights from the Oak Valley Development Company / Oak Valley Partners to Yucaipa Valley Water for Calendar Year 2018. Accordingly, this transfer of Overlying Water Rights should be reduced from the Overlying Water Rights of Oak Valley Partners in the Judgment, Exhibit B (and future subsequent redeterminations of the safe yield) and credited to Yucaipa Valley Water District as an Overlying Water Right.

This transfer of Overlying Water Rights should be retroactively applied and documented in the tables of the 2023 annual report of the Beaumont Basin Watermaster as well as any other subsequent annual reports and related documents.

Sincerely,



Joseph B. Zoba
General Manager

Attachments

Greg Bogh
Division 1

Nyles O'Harra
Division 2

Jay Bogh
Division 3

Brett Granlund
Division 4

Joyce McIntire
Division 5



Yucaipa Valley Water District

12770 Second Street • Post Office Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.dst.ca.us

November 20, 2019

Mr. Dan Jagers, Secretary
Beaumont Basin Watermaster
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Subject: Transmittal of Executed Beaumont Basin Watermaster Form 5 - *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator*

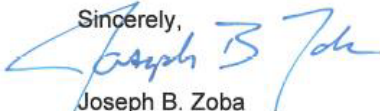
Dear Mr. Jagers:

On November 19, 2019, the Yucaipa Valley Water Board of Directors authorized the execution and acceptance 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. This form provides that the original 1,806 acre feet, now the revised 1,398.90 acre feet of overlying water rights based on the redetermination of safe yield, is transferred to the Yucaipa Valley Water District. The Parties to Form 5 recognize that the transferred overlying water rights will be adjusted for Yucaipa Valley Water District in the future each time the redetermination of safe yield is calculated.

A copy of the fully executed Beaumont Basin Watermaster Form 5 *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator* is attached. Please file this document as part of the permanent records of the Beaumont Basin Watermaster.

Thank you.

Sincerely,



Joseph B. Zoba
General Manager

attachment

Copies to:

- Hannibal Blandon, Alda Engineering
- Thierry Montoya, Alvarado Smith

Chris Mann
Division 1

Bruce Granlund
Division 2

Jay Bogh
Division 3

Lonni Granlund
Division 4

Joyce McIntire
Division 5

2018 Water Usage - Oak Valley

This map displays the 2018 water usage for the Oak Valley area. The map features a central blue lake, surrounded by residential streets and a network of roads. Key roads shown include Roberts Rd, Calimesa Blvd, and various local streets such as Englewood Dr, Calimesa Dr, Palmer Ave, and Morris St. The map also includes a north arrow in the bottom right corner and a scale bar indicating distances in feet (2355 ft, 2423 ft, 2414 ft, 2410 ft).

Assessor's Parcel Number	Water Served in Calendar Year 2018 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413290064	1	413290003
413901020	3	413290007
413901022	2	413290007
413930002	8	413290003
413930003	5	413290003
413930004	3	413290003
413930005	1	413290003
413930006	3	413290003
413950034	3	413290003
413981022	6	413290003
Total (kgal)	35	
Total (Acre Feet)	0.11	



Yucaipa Valley Water District

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(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.us

September 18, 2023

Beaumont Basin Watermaster
c/o Dan Jaggers, Secretary
560 Magnolia Avenue
Beaumont, California 92223

Transmitted via Email

Subject: Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2019

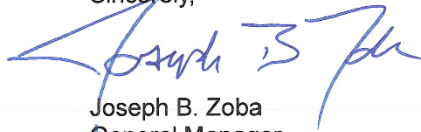
Dear Mr. Jaggers:

On November 20, 2019, the Yucaipa Valley Water District transmitted the executed Beaumont Basin Watermaster Form 5 – *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service* by an Appropriator for the Oak Valley Partners (attached).

Please find attached the documentation requested by the Watermaster Committee to effectuate the permanent transfer of 63.96 acre feet (20,840 kgal) of Overlying Water Rights from the Oak Valley Development Company / Oak Valley Partners to Yucaipa Valley Water for Calendar Year 2019. Accordingly, this transfer of Overlying Water Rights should be reduced from the Overlying Water Rights of Oak Valley Partners in the Judgment, Exhibit B (and future subsequent redeterminations of the safe yield) and credited to Yucaipa Valley Water District as an Overlying Water Right.

This transfer of Overlying Water Rights should be retroactively applied and documented in the tables of the 2023 annual report of the Beaumont Basin Watermaster as well as any other subsequent annual reports and related documents.

Sincerely,



Joseph B. Zoba
General Manager

Attachments

Greg Bogh
Division 1

Nyles O'Harra
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Yucaipa Valley Water District

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November 20, 2019

Mr. Dan Jagers, Secretary
Beaumont Basin Watermaster
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Subject: Transmittal of Executed Beaumont Basin Watermaster Form 5 - *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator*

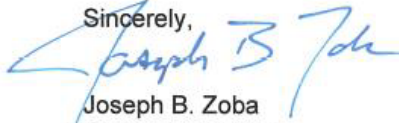
Dear Mr. Jagers:

On November 19, 2019, the Yucaipa Valley Water Board of Directors authorized the execution and acceptance 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. This form provides that the original 1,806 acre feet, now the revised 1,398.90 acre feet of overlying water rights based on the redetermination of safe yield, is transferred to the Yucaipa Valley Water District. The Parties to Form 5 recognize that the transferred overlying water rights will be adjusted for Yucaipa Valley Water District in the future each time the redetermination of safe yield is calculated.

A copy of the fully executed Beaumont Basin Watermaster Form 5 *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator* is attached. Please file this document as part of the permanent records of the Beaumont Basin Watermaster.

Thank you.

Sincerely,



Joseph B. Zoba
General Manager

attachment

Copies to:

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- Thierry Montoya, Alvarado Smith

Chris Mann
Division 1

Bruce Granlund
Division 2

Jay Bogh
Division 3

Lonni Granlund
Division 4

Joyce McIntire
Division 5

2019 Water Usage - Oak Valley

Map showing the 2019 water usage area in Oak Valley. The area is bounded by Roberts Rd to the north, Calimesa Blvd to the east, and Robert Rd to the south. The map includes a central blue lake and surrounding residential streets. A red dashed line indicates the study area boundary. Elevation points are marked: 2327 ft, 2326 ft, 2423 ft, 2414 ft, and 2410 ft. A north arrow is located in the bottom right corner.

Assessor's Parcel Number	Water Served in Calendar Year 2019 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
407370019	142	413290007
413290062	789	413290003
413290064	1,500	413290003
413290064	1,654	413290003
413901001	17	413290007
413901002	32	413290007
413901003	29	413290007
413901004	23	413290007
413901005	40	413290007
413901006	61	413290007
413901007	50	413290007
413901008	48	413290007
413901009	49	413290007
413901010	55	413290007
413901011	59	413290007
413901012	67	413290007
413901013	87	413290007
413901014	35	413290007
413901015	39	413290007
413901016	69	413290007
413901017	20	413290007
413901018	77	413290007
413901019	224	413290007
413901020	165	413290007
413901021	94	413290007
413901022	1,654	413290007
413902014	11	413290007
413902015	37	413290007
413902016	48	413290007
413902017	39	413290007
413902018	26	413290007
413902019	43	413290007
413902020	52	413290007
413902021	42	413290007
413902022	44	413290007
413902023	47	413290007
413902024	84	413290007
413902025	76	413290007
413910045	4	413290007
413910046	5	413290007
413910047	4	413290007
413910048	17	413290007
413911004	3	413290007
413911005	5	413290007
413911006	2	413290007
413911007	9	413290007
413911008	7	413290007
413920001	119	413290007
413920002	73	413290007
413920003	70	413290007
413920004	56	413290007
413920005	110	413290007
413920006	87	413290007
413920007	49	413290007
413920008	58	413290007
413920009	50	413290007
413920010	36	413290007
413920011	47	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2019 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413920012	57	413290007
413920013	30	413290007
413920014	27	413290007
413920015	52	413290007
413920016	34	413290007
413920017	40	413290007
413920018	28	413290007
413920019	48	413290007
413920020	57	413290007
413920021	103	413290007
413920022	122	413290007
413920023	69	413290007
413920024	82	413290007
413920025	78	413290007
413920026	33	413290007
413920027	85	413290007
413920028	161	413290007
413920029	33	413290007
413920030	15	413290007
413920031	44	413290007
413920032	1	413290007
413920034	1	413290007
413920036	6	413290007
413920037	100	413290007
413920038	14	413290007
413920039	49	413290007
413920040	171	413290007
413920041	51	413290007
413920042	49	413290007
413930001	74	413290003
413930002	212	413290003
413930003	327	413290003
413930004	231	413290003
413930005	215	413290003
413930006	204	413290003
413930007	145	413290003
413930008	216	413290003
413930011	73	413290003
413930012	80	413290003
413930013	58	413290003
413930014	97	413290003
413930015	89	413290003
413933004	92	413290003
413933005	124	413290003
413933006	171	413290003
413933007	132	413290003
413933008	196	413290003
413933009	293	413290003
413933010	340	413290003
413933011	214	413290003
413933012	40	413290003
413933013	121	413290003
413933014	64	413290003
413933015	66	413290003
413933016	93	413290003
413933017	72	413290003
413933018	111	413290003
413933019	225	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2019 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413933020	126	413290003
413933021	1	413290003
413933022	1	413290003
413933023	5	413290003
413933024	2	413290003
413940001	10	413290003
413940002	71	413290003
413940003	51	413290003
413940005	40	413290003
413940006	47	413290003
413940007	57	413290003
413940008	70	413290003
413941001	45	413290003
413941002	33	413290003
413941003	3	413290003
413941004	5	413290003
413941005	4	413290003
413941006	3	413290003
413941007	3	413290003
413941008	9	413290003
413941009	5	413290003
413941010	35	413290003
413941011	33	413290003
413941012	51	413290003
413941013	66	413290003
413941014	1	413290003
413941015	2	413290003
413941016	1	413290003
413941017	2	413290003
413950001	108	413290003
413950002	38	413290003
413950003	69	413290003
413950004	51	413290003
413950005	59	413290003
413950006	114	413290003
413950007	86	413290003
413950008	47	413290003
413950009	72	413290003
413950010	42	413290003
413950011	69	413290003
413950012	104	413290003
413950013	57	413290003
413950014	85	413290003
413950015	61	413290003
413950016	46	413290003
413950017	60	413290003
413950018	73	413290003
413950019	33	413290003
413950020	28	413290003
413950021	39	413290003
413950022	26	413290003
413950023	15	413290003
413950024	3	413290003
413950025	6	413290003
413950026	6	413290003
413950027	3	413290003
413950028	5	413290003
413950030	2	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2019 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413950031	1	413290003
413950032	1	413290003
413950034	281	413290003
413951003	2	413290003
413951004	7	413290003
413951005	1	413290003
413951006	3	413290003
413951007	4	413290003
413952001	3	413290003
413952002	10	413290003
413952003	24	413290003
413952004	44	413290003
413952005	30	413290003
413952006	28	413290003
413952007	49	413290003
413952008	20	413290003
413952009	77	413290003
413952010	58	413290003
413952011	97	413290003
413970005	123	413290003
413970006	44	413290003
413970007	59	413290003
413970008	54	413290003
413970009	72	413290003
413970010	66	413290003
413970011	82	413290003
413970012	94	413290003
413970013	59	413290003
413970014	79	413290003
413971001	98	413290003
413971002	80	413290003
413971003	84	413290003
413971004	89	413290003
413971005	99	413290003
413971006	125	413290003
413971007	101	413290003
413971009	247	413290003
413971010	145	413290003
413971012	50	413290003
413971013	44	413290003
413971014	33	413290003
413971015	40	413290003
413971016	34	413290003
413971017	59	413290003
413971018	72	413290003
413971019	84	413290003
413980013	2	413290003
413980014	3	413290003
413980015	2	413290003
413980016	111	413290003
413980017	67	413290003
413980018	52	413290003
413980019	78	413290003
413980020	14	413290003
413980021	21	413290007
413980022	18	413290007
413980023	11	413290007
413980024	27	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2019 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413980025	18	413290003
413980026	12	413290003
413981001	3	413290003
413981002	4	413290003
413981022	798	413290003
Total (kgal)	20,840	
Total (Acre Feet)	63.96	



Yucaipa Valley Water District

12770 Second Street • Post Office Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.us

September 18, 2023

Beaumont Basin Watermaster
c/o Dan Jagers, Secretary
560 Magnolia Avenue
Beaumont, California 92223

Transmitted via Email

Subject: Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2020

Dear Mr. Jagers:

On November 20, 2019, the Yucaipa Valley Water District transmitted the executed Beaumont Basin Watermaster Form 5 – *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service* by an Appropriator for the Oak Valley Partners (attached).

Please find attached the documentation requested by the Watermaster Committee to effectuate the permanent transfer of 194.82 acre feet (63,482 kgal) of Overlying Water Rights from the Oak Valley Development Company / Oak Valley Partners to Yucaipa Valley Water for Calendar Year 2020. Accordingly, this transfer of Overlying Water Rights should be reduced from the Overlying Water Rights of Oak Valley Partners in the Judgment, Exhibit B (and future subsequent redeterminations of the safe yield) and credited to Yucaipa Valley Water District as an Overlying Water Right.

This transfer of Overlying Water Rights should be retroactively applied and documented in the tables of the 2023 annual report of the Beaumont Basin Watermaster as well as any other subsequent annual reports and related documents.

Sincerely,

Joseph B. Zoba
General Manager

Attachments

Greg Bogh
Division 1

Nyles O'Harra
Division 2

Jay Bogh
Division 3

Brett Granlund
Division 4

Joyce McIntire
Division 5



Yucaipa Valley Water District

12770 Second Street • Post Office Box 730 • Yucaipa, California 92399-0730
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November 20, 2019

Mr. Dan Jagers, Secretary
Beaumont Basin Watermaster
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Subject: Transmittal of Executed Beaumont Basin Watermaster Form 5 - *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator*

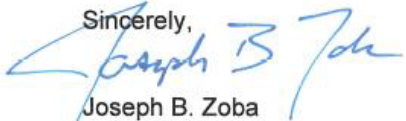
Dear Mr. Jagers:

On November 19, 2019, the Yucaipa Valley Water Board of Directors authorized the execution and acceptance 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. This form provides that the original 1,806 acre feet, now the revised 1,398.90 acre feet of overlying water rights based on the redetermination of safe yield, is transferred to the Yucaipa Valley Water District. The Parties to Form 5 recognize that the transferred overlying water rights will be adjusted for Yucaipa Valley Water District in the future each time the redetermination of safe yield is calculated.

A copy of the fully executed Beaumont Basin Watermaster Form 5 *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator* is attached. Please file this document as part of the permanent records of the Beaumont Basin Watermaster.

Thank you.

Sincerely,



Joseph B. Zoba
General Manager

attachment

Copies to:

- Hannibal Blandon, Alda Engineering
- Thierry Montoya, Alvarado Smith

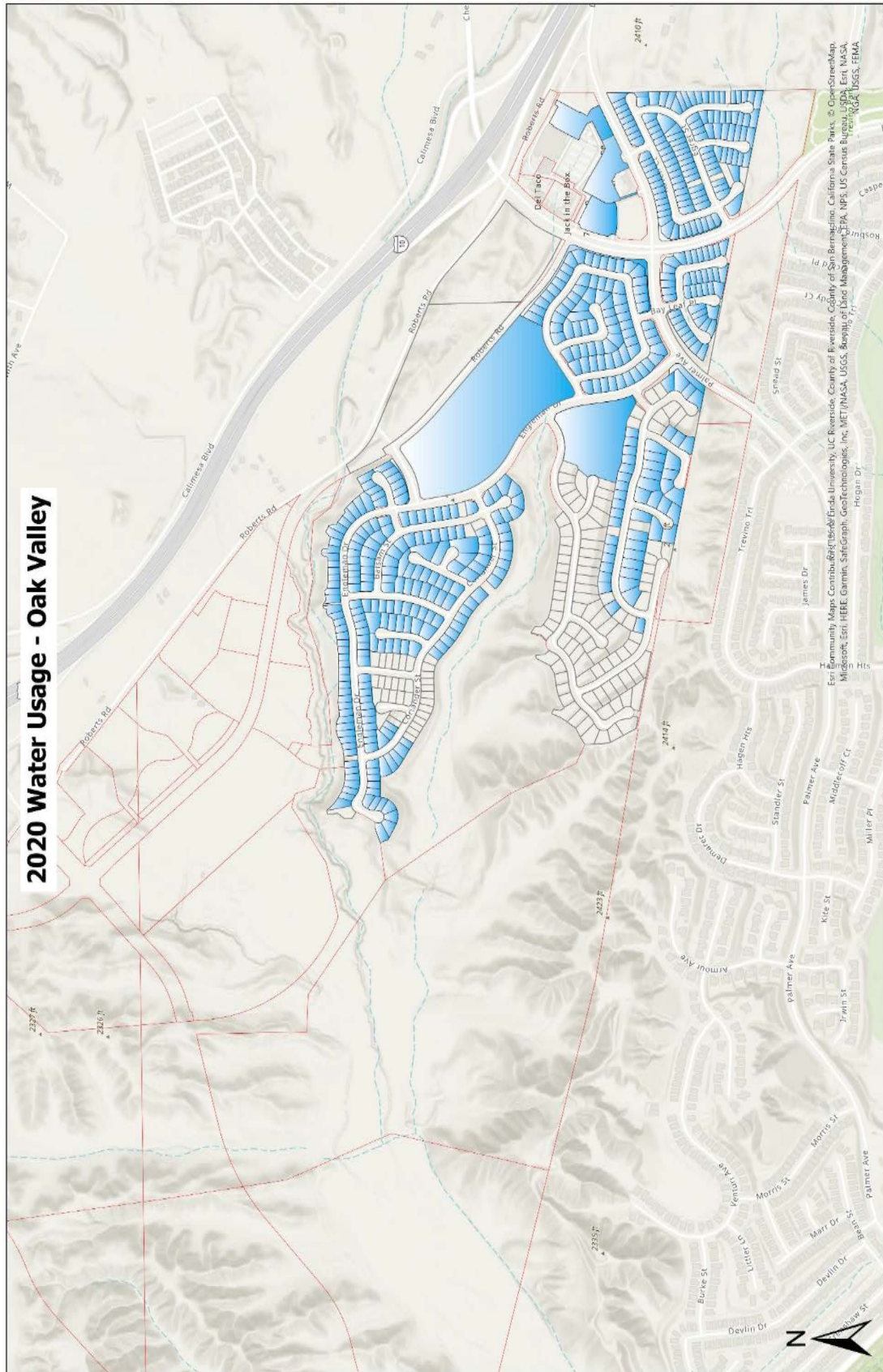
Chris Mann
Division 1

Bruce Granlund
Division 2

Jay Bogh
Division 3

Lonni Granlund
Division 4

Joyce McIntire
Division 5



Assessor's Parcel Number	Water Served in Calendar Year 2020 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
407370003	181	413290007
407370007	65	413290003
407370008	197	413290003
407370009	89	413290003
407370010	38	413290003
407370011	16	413290003
407370012	75	413290003
407370014	305	413290007
407370015	197	413290007
407370016	78	413290007
407370019	1,667	413290007
407370020	59	413460038
407370021	65	413460038
407370022	76	413460038
407370023	43	413460038
407370024	54	413460038
407370025	99	413460038
407371001	35	413290003
407371002	42	413290003
407371003	29	413290003
407371004	177	413290003
407371005	88	413290003
407371006	58	413290003
407380001	30	413290003
407380002	15	413290003
407380003	6	413290003
407380004	4	413290003
407380005	5	413290003
407380007	1	413290003
407380008	1	413290003
407380009	1	413290003
407380010	2	413290003
407380011	2	413290003
407380012	3	413290003
407380013	1	413290003
407380020	5	413460038
407380021	8	413460038
407381001	1	413290003
407381004	2	413290003
407381006	3	413290003
407381007	2	413290003
407381008	1	413290003
407381009	1	413290003
407381010	1	413290003
407381011	1	413290003
407381013	2	413290003
407381014	4	413290003
407381015	13	413290003
407381016	30	413290003
407381017	18	413290003
413290062	1,102	413290003
413290064	3	413290003
413290064	1,763	413290003
413290064	2,159	413290003
413780012	363	413290007
413780012	1,706	413290007
413780014	18	413290007
413780014	80	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2020 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413780016	1	413290007
413780016	18	413290007
413780016	34	413290007
413780016	176	413290007
413780016	244	413290007
413780016	1,566	413290007
413900002	4	413290007
413900004	3	413290007
413900005	2	413290007
413900006	3	413290007
413900008	15	413290007
413900009	20	413290007
413900010	12	413290007
413900011	13	413290007
413900012	14	413290007
413900013	32	413290007
413900014	30	413290007
413900015	16	413290007
413900016	11	413290007
413900017	24	413290007
413900018	7	413290007
413900019	12	413290007
413901001	228	413290007
413901002	102	413290007
413901003	60	413290007
413901004	47	413290007
413901005	44	413290007
413901006	72	413290007
413901007	111	413290007
413901008	76	413290007
413901009	97	413290007
413901010	98	413290007
413901011	96	413290007
413901012	92	413290007
413901013	184	413290007
413901014	72	413290007
413901015	279	413290007
413901016	118	413290007
413901017	40	413290007
413901018	41	413290007
413901019	146	413290007
413901020	246	413290007
413901021	80	413290007
413901022	1,983	413290007
413902001	20	413290007
413902002	2	413290007
413902003	10	413290007
413902004	1	413290007
413902006	27	413290007
413902007	11	413290007
413902008	15	413290007
413902009	16	413290007
413902010	24	413290007
413902011	52	413290007
413902012	58	413290007
413902013	92	413290007
413902014	68	413290007
413902015	103	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2020 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413902016	88	413290007
413902017	94	413290007
413902018	106	413290007
413902019	166	413290007
413902020	103	413290007
413902021	168	413290007
413902022	52	413290007
413902023	71	413290007
413902024	159	413290007
413902025	121	413290007
413910001	30	413290007
413910002	23	413290007
413910003	27	413290007
413910004	41	413290007
413910005	29	413290007
413910006	48	413290007
413910007	42	413290007
413910008	46	413290007
413910009	35	413290007
413910010	42	413290007
413910011	38	413290007
413910012	97	413290007
413910013	55	413290007
413910014	60	413290007
413910015	45	413290007
413910016	56	413290007
413910017	53	413290007
413910018	68	413290007
413910019	57	413290007
413910020	74	413290007
413910021	54	413290007
413910022	56	413290007
413910023	43	413290007
413910024	56	413290007
413910025	57	413290007
413910026	53	413290007
413910027	92	413290007
413910028	43	413290007
413910029	66	413290007
413910030	88	413290007
413910031	117	413290007
413910032	98	413290007
413910033	79	413290007
413910034	103	413290007
413910035	135	413290007
413910036	147	413290007
413910037	205	413290007
413910038	150	413290007
413910039	65	413290007
413910040	94	413290007
413910041	54	413290007
413910042	74	413290007
413910043	101	413290007
413910044	49	413290007
413910045	104	413290007
413910046	37	413290007
413910047	120	413290007
413910048	185	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2020 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413911001	73	413290007
413911002	137	413290007
413911003	142	413290007
413911004	251	413290007
413911005	82	413290007
413911006	92	413290007
413911007	78	413290007
413911008	86	413290007
413920001	242	413290007
413920002	75	413290007
413920003	130	413290007
413920004	101	413290007
413920005	127	413290007
413920006	165	413290007
413920007	88	413290007
413920008	90	413290007
413920009	60	413290007
413920010	83	413290007
413920011	160	413290007
413920012	170	413290007
413920013	122	413290007
413920014	145	413290007
413920015	99	413290007
413920016	253	413290007
413920017	90	413290007
413920018	93	413290007
413920019	67	413290007
413920020	108	413290007
413920021	128	413290007
413920022	101	413290007
413920023	68	413290007
413920024	69	413290007
413920025	84	413290007
413920026	27	413290007
413920027	119	413290007
413920028	241	413290007
413920029	175	413290007
413920030	99	413290007
413920031	148	413290007
413920032	170	413290007
413920033	108	413290007
413920034	125	413290007
413920035	118	413290007
413920036	71	413290007
413920037	61	413290007
413920038	111	413290007
413920039	79	413290007
413920040	83	413290007
413920041	72	413290007
413930001	78	413290003
413930002	208	413290003
413930003	319	413290003
413930004	236	413290003
413930005	201	413290003
413930006	208	413290003
413930007	169	413290003
413930008	56	413290003
413930009	6	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2020 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413930010	2	413290003
413930011	147	413290003
413930012	71	413290003
413930013	135	413290003
413930014	146	413290003
413930015	201	413290003
413931001	92	413290003
413931002	102	413290003
413931003	88	413290003
413931004	88	413290003
413931005	66	413290003
413931006	110	413290003
413931007	106	413290003
413931008	96	413290003
413931009	68	413290003
413932001	68	413290003
413932002	65	413290003
413932003	24	413290003
413932004	42	413290003
413932005	39	413290003
413932006	4	413290003
413932007	8	413290003
413932009	3	413290003
413933002	2	413290003
413933003	13	413290003
413933004	152	413290003
413933005	225	413290003
413933006	337	413290003
413933007	118	413290003
413933008	286	413290003
413933009	258	413290003
413933010	692	413290003
413933011	202	413290003
413933012	308	413290003
413933013	230	413290003
413933014	99	413290003
413933015	105	413290003
413933016	185	413290003
413933017	209	413290003
413933018	166	413290003
413933019	211	413290003
413933020	301	413290003
413933021	188	413290003
413933022	206	413290003
413933023	185	413290003
413933024	218	413290003
413933025	237	413290003
413933026	190	413290003
413933027	98	413290003
413933028	61	413290003
413933029	39	413290003
413933030	88	413290003
413933031	141	413290003
413933032	65	413290003
413933033	127	413290003
413933034	100	413290003
413933035	32	413290003
413933036	38	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2020 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413933037	65	413290003
413933038	32	413290003
413933039	2	413290003
413933040	40	413290003
413940001	95	413290003
413940002	187	413290003
413940003	164	413290003
413940004	203	413290003
413940005	224	413290003
413940006	155	413290003
413940007	186	413290003
413940008	160	413290003
413940009	307	413290003
413941001	251	413290003
413941002	126	413290003
413941003	124	413290003
413941004	124	413290003
413941005	91	413290003
413941006	250	413290003
413941007	252	413290003
413941008	212	413290003
413941009	84	413290003
413941010	307	413290003
413941011	190	413290003
413941012	265	413290003
413941013	575	413290003
413941014	261	413290003
413941015	124	413290003
413941016	298	413290003
413941017	148	413290003
413941018	139	413290003
413941019	116	413290003
413941020	80	413290003
413941021	70	413290003
413941022	92	413290003
413941023	123	413290003
413950001	174	413290003
413950002	57	413290003
413950003	147	413290003
413950004	139	413290003
413950005	143	413290003
413950006	191	413290003
413950007	182	413290003
413950008	80	413290003
413950009	286	413290003
413950010	177	413290003
413950011	256	413290003
413950012	100	413290003
413950013	251	413290003
413950014	190	413290003
413950015	163	413290003
413950016	102	413290003
413950017	77	413290003
413950018	213	413290003
413950019	138	413290003
413950020	79	413290003
413950021	135	413290003
413950022	150	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2020 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413950023	93	413290003
413950024	78	413290003
413950025	153	413290003
413950026	147	413290003
413950027	76	413290003
413950028	92	413290003
413950029	133	413290003
413950030	224	413290003
413950031	76	413290003
413950032	178	413290003
413950033	69	413290003
413950034	305	413290003
413951001	62	413290003
413951002	125	413290003
413951003	113	413290003
413951004	57	413290003
413951005	163	413290003
413951006	173	413290003
413951007	135	413290003
413952001	200	413290003
413952002	117	413290003
413952003	72	413290003
413952004	108	413290003
413952005	88	413290003
413952006	121	413290003
413952007	56	413290003
413952008	50	413290003
413952009	398	413290003
413952010	143	413290003
413952011	186	413290003
413960001	86	413290003
413960002	82	413290003
413960003	96	413290003
413960004	63	413290003
413960005	72	413290003
413960006	96	413290003
413960007	62	413290003
413960008	84	413290003
413960009	61	413290003
413960010	70	413290003
413960011	58	413290003
413960012	81	413290003
413960013	39	413290003
413960014	32	413290003
413960015	31	413290003
413960016	21	413290003
413960017	38	413290003
413960018	18	413290003
413960019	42	413290003
413960020	13	413290003
413960021	9	413290003
413960022	13	413290003
413960023	2	413290003
413961001	1	413290003
413961002	1	413290003
413961003	4	413290003
413961004	3	413290003
413961005	3	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2020 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413961006	7	413290003
413961007	11	413290003
413961008	9	413290003
413961009	15	413290003
413961010	9	413290003
413961011	4	413290003
413961012	26	413290003
413961013	1	413290003
413961014	2	413290003
413961015	1	413290003
413961016	2	413290003
413961017	11	413290003
413962007	141	413290003
413962008	75	413290003
413963015	11	413290003
413963016	1	413290003
413963017	2	413290003
413963018	37	413290003
413963019	36	413290003
413963020	61	413290003
413963021	67	413290003
413963022	75	413290003
413963023	68	413290003
413963024	43	413290003
413963025	72	413290003
413963026	55	413290003
413963027	67	413290003
413963028	108	413290003
413970001	18	413290003
413970002	20	413290003
413970003	22	413290003
413970004	16	413290003
413970005	231	413290003
413970006	88	413290003
413970007	162	413290003
413970008	45	413290003
413970009	95	413290003
413970010	81	413290003
413970011	151	413290003
413970012	248	413290003
413970013	182	413290003
413970014	93	413290003
413971001	204	413290003
413971002	272	413290003
413971003	125	413290003
413971004	191	413290003
413971005	193	413290003
413971006	283	413290003
413971007	280	413290003
413971008	28	413290003
413971009	205	413290003
413971010	134	413290003
413971011	107	413290003
413971012	86	413290003
413971013	149	413290003
413971014	136	413290003
413971015	119	413290003
413971016	172	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2020 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413971017	132	413290003
413971018	123	413290003
413971019	238	413290003
413980001	36	413290003
413980002	27	413290003
413980003	37	413290007
413980004	39	413290007
413980005	40	413290007
413980006	94	413290007
413980007	73	413290007
413980008	157	413290007
413980009	73	413290007
413980010	104	413290007
413980011	104	413290007
413980012	101	413290003
413980013	144	413290003
413980014	172	413290003
413980015	177	413290003
413980016	151	413290003
413980017	152	413290003
413980018	77	413290003
413980019	112	413290003
413980020	119	413290003
413980021	108	413290007
413980022	130	413290007
413980023	102	413290007
413980024	197	413290007
413980025	95	413290003
413980026	113	413290003
413981001	145	413290003
413981002	102	413290003
413981003	79	413290007
413981004	125	413290007
413981005	85	413290007
413981006	145	413290007
413981007	77	413290007
413981008	75	413290007
413981009	126	413290007
413981010	80	413290007
413981011	63	413290007
413981012	89	413290007
413981013	89	413290007
413981014	37	413290007
413981015	47	413290007
413981016	55	413290007
413981017	52	413290007
413981018	21	413290007
413981019	20	413290007
413981020	24	413290007
413981021	26	413290003
413981022	1,009	413290003

Total (kgal) 63,482

Total (Acre Feet) 194.82



Yucaipa Valley Water District

12770 Second Street • Post Office Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.us

September 18, 2023

Beaumont Basin Watermaster
c/o Dan Jagers, Secretary
560 Magnolia Avenue
Beaumont, California 92223

Transmitted via Email

Subject: Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2021

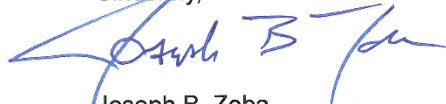
Dear Mr. Jagers:

On November 20, 2019, the Yucaipa Valley Water District transmitted the executed Beaumont Basin Watermaster Form 5 – *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service* by an Appropriator for the Oak Valley Partners (attached).

Please find attached the documentation requested by the Watermaster Committee to effectuate the permanent transfer of 366.77 acre feet (119,512 kgal) of Overlying Water Rights from the Oak Valley Development Company / Oak Valley Partners to Yucaipa Valley Water for Calendar Year 2021. Accordingly, this transfer of Overlying Water Rights should be reduced from the Overlying Water Rights of Oak Valley Partners in the Judgment, Exhibit B (and future subsequent redeterminations of the safe yield) and credited to Yucaipa Valley Water District as an Overlying Water Right.

This transfer of Overlying Water Rights should be retroactively applied and documented in the tables of the 2023 annual report of the Beaumont Basin Watermaster as well as any other subsequent annual reports and related documents.

Sincerely,



Joseph B. Zoba
General Manager

Attachments

Greg Bogh
Division 1

Nyles O'Harra
Division 2

Jay Bogh
Division 3

Brett Granlund
Division 4

Joyce McIntire
Division 5



Yucaipa Valley Water District

12770 Second Street • Post Office Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.dst.ca.us

November 20, 2019

Mr. Dan Jagers, Secretary
Beaumont Basin Watermaster
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Subject: Transmittal of Executed Beaumont Basin Watermaster Form 5 - *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator*

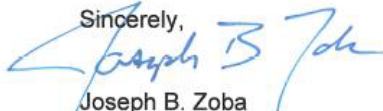
Dear Mr. Jagers:

On November 19, 2019, the Yucaipa Valley Water Board of Directors authorized the execution and acceptance 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. This form provides that the original 1,806 acre feet, now the revised 1,398.90 acre feet of overlying water rights based on the redetermination of safe yield, is transferred to the Yucaipa Valley Water District. The Parties to Form 5 recognize that the transferred overlying water rights will be adjusted for Yucaipa Valley Water District in the future each time the redetermination of safe yield is calculated.

A copy of the fully executed Beaumont Basin Watermaster Form 5 *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator* is attached. Please file this document as part of the permanent records of the Beaumont Basin Watermaster.

Thank you.

Sincerely,



Joseph B. Zoba
General Manager

attachment

Copies to:

- Hannibal Blandon, Alda Engineering
- Thierry Montoya, Alvarado Smith

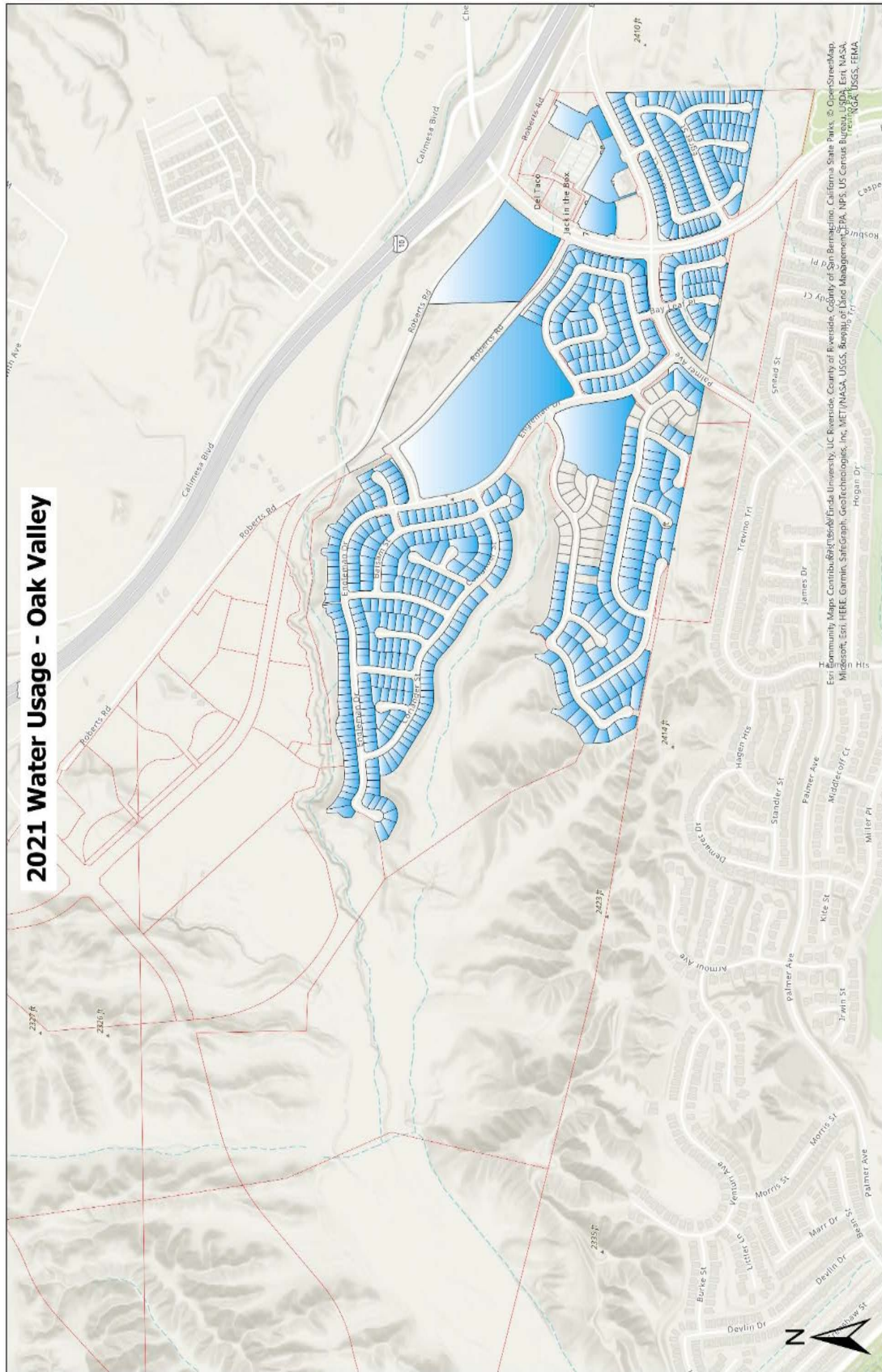
Chris Mann
Division 1

Bruce Granlund
Division 2

Jay Bogh
Division 3

Lonni Granlund
Division 4

Joyce McIntire
Division 5



Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
407370003	177	413290007
407370007	139	413290003
407370008	309	413290003
407370009	173	413290003
407370010	127	413290003
407370011	161	413290003
407370012	128	413290003
407370014	329	413290007
407370015	149	413290007
407370016	102	413290007
407370019	1,628	413290007
407370020	96	413460038
407370021	144	413460038
407370022	198	413460038
407370023	468	413460038
407370024	240	413460038
407370025	176	413460038
407371001	124	413290003
407371002	117	413290003
407371003	122	413290003
407371004	176	413290003
407371005	148	413290003
407371006	78	413290003
407380001	144	413290003
407380002	110	413290003
407380003	156	413290003
407380004	213	413290003
407380005	102	413290003
407380006	293	413290003
407380007	92	413290003
407380008	114	413290003
407380009	58	413290003
407380010	219	413290003
407380011	126	413290003
407380012	104	413290003
407380013	91	413290003
407380014	115	413290003
407380015	66	413290003
407380016	84	413290003
407380017	76	413290003
407380018	71	413290003
407380019	74	413290003
407380020	225	413460038
407380021	122	413460038
407380022	116	413460038
407381001	77	413290003
407381002	71	413290003
407381003	102	413290003
407381004	121	413290003
407381005	63	413290003
407381006	78	413290003
407381007	52	413290003
407381008	57	413290003
407381009	61	413290003
407381010	71	413290003
407381011	68	413290003
407381012	76	413290003
407381013	109	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
407381014	120	413290003
407381015	52	413290003
407381016	106	413290003
407381017	91	413290003
407390001	128	413290003
407390002	115	413290003
407390003	63	413290003
407390004	45	413290003
407390005	43	413290003
407390006	61	413290003
407390007	111	413290003
407390008	74	413290003
407390009	27	413290003
407390010	30	413290003
407390011	45	413290003
407390012	51	413290003
407390013	33	413290003
407390014	65	413290003
407390015	52	413290003
407390016	41	413290003
407390017	60	413290003
407390018	92	413290003
407390019	78	413290003
407390020	61	413290003
407390021	30	413290003
407390022	34	413290003
407390023	21	413290003
407391001	24	413290003
407391002	12	413290003
407391003	5	413290003
407391004	5	413290003
407391005	6	413290003
407391006	3	413290003
407391008	3	413290003
407391009	17	413290003
407391010	28	413290003
407391011	54	413290003
407391012	38	413290003
407391013	86	413290003
407391014	42	413290003
407391015	47	413290003
407391016	42	413290003
407391017	94	413290003
407391018	93	413290003
407391019	122	413290003
407391020	69	413290003
407400001	45	413290003
407400002	41	413290003
407400003	15	413290003
407400004	12	413290003
407400005	2	413290003
407400006	2	413290003
407400007	1	413290003
407400008	1	413290003
407402010	2	413290003
407402012	3	413290003
407402013	1	413290003
413290044	157	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413290062	1,110	413290003
413290064	1,363	413290003
413290064	1,571	413290003
413290064	6,925	413290003
413780012	321	413290007
413780012	2,159	413290007
413780014	182	413290007
413780014	577	413290007
413780016	99	413290007
413780016	106	413290007
413780016	166	413290007
413780016	435	413290007
413780016	442	413290007
413780016	2,323	413290007
413900001	88	413290007
413900002	86	413290007
413900003	149	413290007
413900004	175	413290007
413900005	64	413290007
413900006	144	413290007
413900007	216	413290007
413900008	61	413290007
413900009	144	413290007
413900010	143	413290007
413900011	122	413290007
413900012	167	413290007
413900013	46	413290007
413900014	53	413290007
413900015	152	413290007
413900016	77	413290007
413900017	74	413290007
413900018	136	413290007
413900019	118	413290007
413901001	212	413290007
413901002	168	413290007
413901003	94	413290007
413901004	90	413290007
413901005	64	413290007
413901006	88	413290007
413901007	93	413290007
413901008	90	413290007
413901009	91	413290007
413901010	75	413290007
413901011	109	413290007
413901012	80	413290007
413901013	146	413290007
413901014	69	413290007
413901015	352	413290007
413901016	75	413290007
413901017	131	413290007
413901018	83	413290007
413901019	96	413290007
413901020	174	413290007
413901021	70	413290007
413901022	2,504	413290007
413902001	124	413290007
413902002	113	413290007
413902003	100	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413902004	67	413290007
413902005	115	413290007
413902006	78	413290007
413902007	124	413290007
413902008	136	413290007
413902009	130	413290007
413902010	119	413290007
413902011	132	413290007
413902012	220	413290007
413902013	121	413290007
413902014	79	413290007
413902015	88	413290007
413902016	73	413290007
413902017	77	413290007
413902018	53	413290007
413902019	149	413290007
413902020	83	413290007
413902021	146	413290007
413902022	84	413290007
413902023	83	413290007
413902024	126	413290007
413902025	124	413290007
413910001	322	413290007
413910002	185	413290007
413910003	247	413290007
413910004	131	413290007
413910005	65	413290007
413910006	108	413290007
413910007	109	413290007
413910008	186	413290007
413910009	54	413290007
413910010	91	413290007
413910011	170	413290007
413910012	259	413290007
413910013	137	413290007
413910014	111	413290007
413910015	47	413290007
413910016	154	413290007
413910017	29	413290007
413910018	175	413290007
413910019	101	413290007
413910020	316	413290007
413910021	116	413290007
413910022	219	413290007
413910023	166	413290007
413910024	99	413290007
413910025	73	413290007
413910026	50	413290007
413910027	264	413290007
413910028	24	413290007
413910029	61	413290007
413910030	102	413290007
413910031	83	413290007
413910032	123	413290007
413910033	55	413290007
413910034	101	413290007
413910035	156	413290007
413910036	169	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413910037	91	413290007
413910038	72	413290007
413910039	86	413290007
413910040	116	413290007
413910041	91	413290007
413910042	137	413290007
413910043	161	413290007
413910044	36	413290007
413910045	86	413290007
413910046	36	413290007
413910047	127	413290007
413910048	225	413290007
413911001	201	413290007
413911002	62	413290007
413911003	128	413290007
413911004	167	413290007
413911005	85	413290007
413911006	72	413290007
413911007	95	413290007
413911008	104	413290007
413920001	257	413290007
413920002	73	413290007
413920003	160	413290007
413920004	87	413290007
413920005	167	413290007
413920006	155	413290007
413920007	88	413290007
413920008	112	413290007
413920009	82	413290007
413920010	83	413290007
413920011	139	413290007
413920012	47	413290007
413920013	114	413290007
413920014	201	413290007
413920015	145	413290007
413920016	510	413290007
413920017	154	413290007
413920018	108	413290007
413920019	81	413290007
413920020	67	413290007
413920021	107	413290007
413920022	154	413290007
413920023	74	413290007
413920024	86	413290007
413920025	91	413290007
413920026	22	413290007
413920027	93	413290007
413920028	242	413290007
413920029	170	413290007
413920030	56	413290007
413920031	117	413290007
413920032	79	413290007
413920033	126	413290007
413920034	202	413290007
413920035	189	413290007
413920036	65	413290007
413920037	121	413290007
413920038	100	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413920039	184	413290007
413920040	79	413290007
413920041	83	413290007
413930001	46	413290003
413930002	224	413290003
413930003	257	413290003
413930004	145	413290003
413930005	111	413290003
413930006	226	413290003
413930007	145	413290003
413930008	157	413290003
413930009	210	413290003
413930010	147	413290003
413930011	149	413290003
413930012	78	413290003
413930013	117	413290003
413930014	99	413290003
413930015	183	413290003
413931001	218	413290003
413931002	378	413290003
413931003	217	413290003
413931004	160	413290003
413931005	281	413290003
413931006	244	413290003
413931007	250	413290003
413931008	275	413290003
413931009	129	413290003
413932001	245	413290003
413932002	263	413290003
413932003	114	413290003
413932004	164	413290003
413932005	162	413290003
413932006	184	413290003
413932007	276	413290003
413932008	280	413290003
413932009	210	413290003
413933001	233	413290003
413933002	242	413290003
413933003	223	413290003
413933004	163	413290003
413933005	300	413290003
413933006	381	413290003
413933007	233	413290003
413933008	383	413290003
413933009	184	413290003
413933010	622	413290003
413933011	175	413290003
413933012	187	413290003
413933013	231	413290003
413933014	109	413290003
413933015	177	413290003
413933016	240	413290003
413933017	331	413290003
413933018	239	413290003
413933019	209	413290003
413933020	270	413290003
413933021	201	413290003
413933022	254	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413933023	227	413290003
413933024	138	413290003
413933025	492	413290003
413933026	173	413290003
413933027	113	413290003
413933028	127	413290003
413933029	60	413290003
413933030	152	413290003
413933031	259	413290003
413933032	231	413290003
413933033	335	413290003
413933034	259	413290003
413933035	58	413290003
413933036	153	413290003
413933037	260	413290003
413933038	128	413290003
413933039	164	413290003
413933040	254	413290003
413933041	117	413290003
413940001	126	413290003
413940002	234	413290003
413940003	93	413290003
413940004	187	413290003
413940005	248	413290003
413940006	177	413290003
413940007	276	413290003
413940008	205	413290003
413940009	174	413290003
413941001	177	413290003
413941002	211	413290003
413941003	135	413290003
413941004	184	413290003
413941005	109	413290003
413941006	354	413290003
413941007	281	413290003
413941008	265	413290003
413941009	100	413290003
413941010	309	413290003
413941011	149	413290003
413941012	234	413290003
413941013	642	413290003
413941014	615	413290003
413941015	143	413290003
413941016	371	413290003
413941017	147	413290003
413941018	349	413290003
413941019	144	413290003
413941020	157	413290003
413941021	44	413290003
413941022	154	413290003
413941023	228	413290003
413950001	170	413290003
413950002	60	413290003
413950003	192	413290003
413950004	130	413290003
413950005	194	413290003
413950006	169	413290003
413950007	347	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413950008	74	413290003
413950009	229	413290003
413950010	147	413290003
413950011	220	413290003
413950012	94	413290003
413950013	200	413290003
413950014	166	413290003
413950015	180	413290003
413950016	97	413290003
413950017	182	413290003
413950018	182	413290003
413950019	122	413290003
413950020	91	413290003
413950021	137	413290003
413950022	197	413290003
413950023	195	413290003
413950024	187	413290003
413950025	192	413290003
413950026	194	413290003
413950027	21	413290003
413950028	289	413290003
413950029	123	413290003
413950030	334	413290003
413950031	83	413290003
413950032	205	413290003
413950033	215	413290003
413950034	257	413290003
413951001	97	413290003
413951002	216	413290003
413951003	301	413290003
413951004	65	413290003
413951005	149	413290003
413951006	182	413290003
413951007	154	413290003
413952001	169	413290003
413952002	85	413290003
413952003	94	413290003
413952004	175	413290003
413952005	209	413290003
413952006	139	413290003
413952007	75	413290003
413952008	60	413290003
413952009	280	413290003
413952010	191	413290003
413952011	166	413290003
413960001	150	413290003
413960002	74	413290003
413960003	122	413290003
413960004	201	413290003
413960005	119	413290003
413960006	198	413290003
413960007	91	413290003
413960008	124	413290003
413960009	114	413290003
413960010	174	413290003
413960011	249	413290003
413960012	454	413290003
413960013	187	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413960014	140	413290003
413960015	102	413290003
413960016	80	413290003
413960017	205	413290003
413960018	96	413290003
413960019	261	413290003
413960020	302	413290003
413960021	146	413290003
413960022	152	413290003
413960023	352	413290003
413960024	275	413290003
413960025	9,946	413290003
413961001	154	413290003
413961002	91	413290003
413961003	116	413290003
413961004	95	413290003
413961005	108	413290003
413961006	168	413290003
413961007	208	413290003
413961008	184	413290003
413961009	129	413290003
413961010	101	413290003
413961011	136	413290003
413961012	84	413290003
413961013	85	413290003
413961014	100	413290003
413961015	90	413290003
413961016	87	413290003
413961017	78	413290003
413961018	118	413290003
413961019	87	413290003
413961020	89	413290003
413961021	101	413290003
413961022	67	413290003
413961023	86	413290003
413961024	77	413290003
413961025	64	413290003
413961026	49	413290003
413961027	53	413290003
413961028	75	413290003
413961029	84	413290003
413961030	89	413290003
413962001	117	413290003
413962002	69	413290003
413962003	71	413290003
413962004	75	413290003
413962005	72	413290003
413962006	51	413290003
413962007	172	413290003
413962008	142	413290003
413963001	42	413290003
413963002	51	413290003
413963003	39	413290003
413963004	51	413290003
413963005	63	413290003
413963006	109	413290003
413963007	139	413290003
413963008	78	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413963009	105	413290003
413963010	82	413290003
413963011	196	413290003
413963012	190	413290003
413963013	180	413290003
413963014	65	413290003
413963015	140	413290003
413963016	368	413290003
413963017	159	413290003
413963018	188	413290003
413963019	195	413290003
413963020	179	413290003
413963021	144	413290003
413963022	165	413290003
413963023	144	413290003
413963024	128	413290003
413963025	225	413290003
413963026	83	413290003
413963027	170	413290003
413963028	176	413290003
413970001	152	413290003
413970002	164	413290003
413970003	92	413290003
413970004	112	413290003
413970005	192	413290003
413970006	75	413290003
413970007	156	413290003
413970008	41	413290003
413970009	166	413290003
413970010	70	413290003
413970011	217	413290003
413970012	258	413290003
413970013	190	413290003
413970014	102	413290003
413971001	188	413290003
413971002	287	413290003
413971003	163	413290003
413971004	248	413290003
413971005	185	413290003
413971006	320	413290003
413971007	291	413290003
413971008	442	413290003
413971009	285	413290003
413971010	210	413290003
413971011	260	413290003
413971012	128	413290003
413971013	282	413290003
413971014	132	413290003
413971015	241	413290003
413971016	173	413290003
413971017	111	413290003
413971018	270	413290003
413971019	336	413290003
413980001	110	413290003
413980002	160	413290003
413980003	119	413290007
413980004	141	413290007
413980005	130	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2021 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413980006	175	413290007
413980007	166	413290007
413980008	231	413290007
413980009	100	413290007
413980010	75	413290007
413980011	142	413290007
413980012	87	413290003
413980013	154	413290003
413980014	142	413290003
413980015	175	413290003
413980016	142	413290003
413980017	146	413290003
413980018	108	413290003
413980019	180	413290003
413980020	148	413290003
413980021	145	413290007
413980022	157	413290007
413980023	61	413290007
413980024	182	413290007
413980025	103	413290003
413980026	111	413290003
413981001	189	413290003
413981002	106	413290003
413981003	79	413290007
413981004	123	413290007
413981005	130	413290007
413981006	196	413290007
413981007	120	413290007
413981008	149	413290007
413981009	277	413290007
413981010	120	413290007
413981011	83	413290007
413981012	131	413290007
413981013	134	413290007
413981014	97	413290007
413981015	152	413290007
413981016	139	413290007
413981017	106	413290007
413981018	134	413290007
413981019	103	413290007
413981020	138	413290007
413981021	89	413290003
413981022	978	413290003

Total (kgal) 119,512

Total (Acre Feet) 366.77



Yucaipa Valley Water District

12770 Second Street • Post Office Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.us

September 18, 2023

Beaumont Basin Watermaster
c/o Dan Jagers, Secretary
560 Magnolia Avenue
Beaumont, California 92223

Transmitted via Email

Subject: Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2022

Dear Mr. Jagers:

On November 20, 2019, the Yucaipa Valley Water District transmitted the executed Beaumont Basin Watermaster Form 5 – *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service* by an Appropriator for the Oak Valley Partners (attached).

Please find attached the documentation requested by the Watermaster Committee to effectuate the permanent transfer of 478.25 acre feet (155,837 kgal) of Overlying Water Rights from the Oak Valley Development Company / Oak Valley Partners to Yucaipa Valley Water for Calendar Year 2022. Accordingly, this transfer of Overlying Water Rights should be reduced from the Overlying Water Rights of Oak Valley Partners in the Judgment, Exhibit B (and future subsequent redeterminations of the safe yield) and credited to Yucaipa Valley Water District as an Overlying Water Right.

This transfer of Overlying Water Rights should be retroactively applied and documented in the tables of the 2023 annual report of the Beaumont Basin Watermaster as well as any other subsequent annual reports and related documents.

Sincerely,

Joseph B. Zoba
General Manager

Attachments

Greg Bogh
Division 1

Nyles O'Harra
Division 2

Jay Bogh
Division 3

Brett Granlund
Division 4

Joyce McIntire
Division 5



Yucaipa Valley Water District

12770 Second Street • Post Office Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.dst.ca.us

November 20, 2019

Mr. Dan Jagers, Secretary
Beaumont Basin Watermaster
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Subject: Transmittal of Executed Beaumont Basin Watermaster Form 5 - *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator*

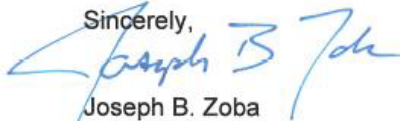
Dear Mr. Jagers:

On November 19, 2019, the Yucaipa Valley Water Board of Directors authorized the execution and acceptance 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. This form provides that the original 1,806 acre feet, now the revised 1,398.90 acre feet of overlying water rights based on the redetermination of safe yield, is transferred to the Yucaipa Valley Water District. The Parties to Form 5 recognize that the transferred overlying water rights will be adjusted for Yucaipa Valley Water District in the future each time the redetermination of safe yield is calculated.

A copy of the fully executed Beaumont Basin Watermaster Form 5 *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator* is attached. Please file this document as part of the permanent records of the Beaumont Basin Watermaster.

Thank you.

Sincerely,



Joseph B. Zoba
General Manager

attachment

Copies to:

- Hannibal Blandon, Alda Engineering
- Thierry Montoya, Alvarado Smith

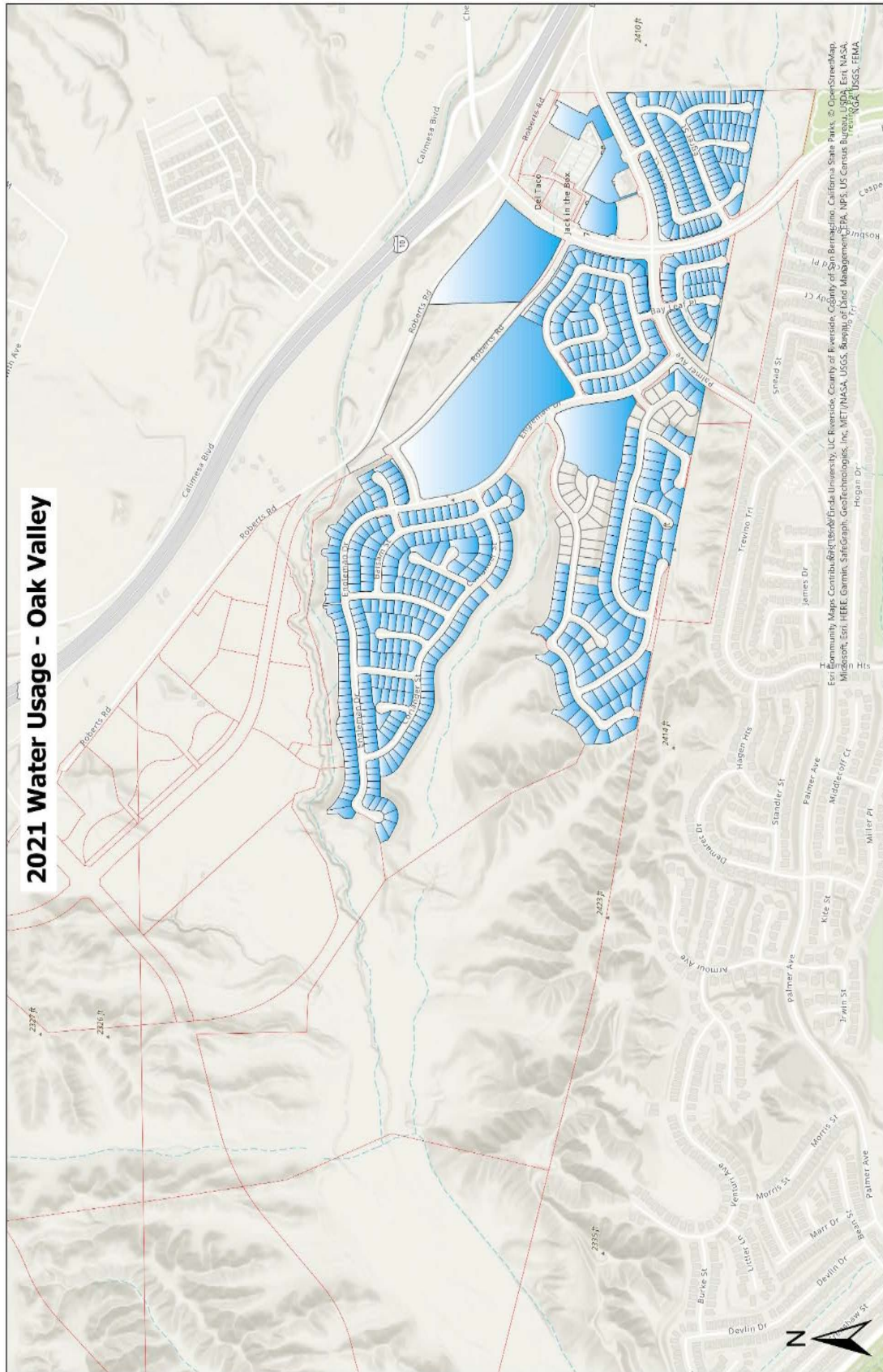
Chris Mann
Division 1

Bruce Granlund
Division 2

Jay Bogh
Division 3

Lonni Granlund
Division 4

Joyce McIntire
Division 5



Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
407370001	22	413290003
407370002	22	413290003
407370003	250	413290007
407370004	34	413290007
407370005	73	413290003
407370006	174	413290003
407370007	120	413290003
407370008	343	413290003
407370009	175	413290003
407370010	240	413290003
407370011	172	413290003
407370012	137	413290003
407370014	288	413290007
407370015	168	413290007
407370016	67	413290007
407370017	110	413460038
407370018	46	413290007
407370019	1,270	413290007
407370020	100	413460038
407370021	180	413460038
407370022	258	413460038
407370023	313	413460038
407370024	240	413460038
407370025	192	413460038
407371001	132	413290003
407371002	127	413290003
407371003	147	413290003
407371004	157	413290003
407371005	146	413290003
407371006	72	413290003
407371007	81	413290003
407371008	30	413290003
407380001	162	413290003
407380002	107	413290003
407380003	194	413290003
407380004	178	413290003
407380005	166	413290003
407380006	391	413290003
407380007	100	413290003
407380008	134	413290003
407380009	66	413290003
407380010	286	413290003
407380011	128	413290003
407380012	226	413290003
407380013	96	413290003
407380014	114	413290003
407380015	88	413290003
407380016	127	413290003
407380017	130	413290003
407380018	61	413290003
407380019	118	413290003
407380020	249	413460038
407380021	184	413460038
407380022	343	413460038
407381001	183	413290003
407381002	72	413290003
407381003	144	413290003
407381004	165	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
407381005	66	413290003
407381006	213	413290003
407381007	81	413290003
407381008	87	413290003
407381009	83	413290003
407381010	124	413290003
407381011	66	413290003
407381012	166	413290003
407381013	92	413290003
407381014	104	413290003
407381015	43	413290003
407381016	111	413290003
407381017	167	413290003
407390001	149	413290003
407390002	156	413290003
407390003	114	413290003
407390004	58	413290003
407390005	70	413290003
407390006	102	413290003
407390007	185	413290003
407390008	232	413290003
407390009	72	413290003
407390010	203	413290003
407390011	72	413290003
407390012	101	413290003
407390013	48	413290003
407390014	145	413290003
407390015	80	413290003
407390016	127	413290003
407390017	242	413290003
407390018	136	413290003
407390019	180	413290003
407390020	200	413290003
407390021	173	413290003
407390022	249	413290003
407390023	306	413290003
407391001	193	413290003
407391002	163	413290003
407391003	175	413290003
407391004	129	413290003
407391005	124	413290003
407391006	118	413290003
407391007	127	413290003
407391008	64	413290003
407391009	87	413290003
407391010	139	413290003
407391011	79	413290003
407391012	216	413290003
407391013	257	413290003
407391014	182	413290003
407391015	55	413290003
407391016	76	413290003
407391017	133	413290003
407391018	60	413290003
407391019	281	413290003
407391020	108	413290003
407400001	156	413290003
407400002	100	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
407400003	84	413290003
407400004	79	413290003
407400005	35	413290003
407400006	70	413290003
407400007	103	413290003
407400008	99	413290003
407400009	60	413290003
407400010	124	413290003
407400011	39	413290003
407400012	71	413290003
407400013	90	413290003
407401001	95	413290003
407401002	62	413290003
407401003	48	413290003
407401004	49	413290003
407401005	51	413290003
407401006	143	413290003
407402001	91	413290003
407402002	102	413290003
407402003	95	413290003
407402004	178	413290003
407402005	99	413290003
407402006	149	413290003
407402007	150	413290003
407402008	90	413290003
407402009	148	413290003
407402010	90	413290003
407402011	130	413290003
407402012	68	413290003
407402013	71	413290003
413290048	7	413290003
413290048	4,756	413290003
413290062	4	413290003
413290062	1,463	413290003
413290064	40	413290003
413290064	1,697	413290003
413290064	2,359	413290003
413290064	10,943	413290003
413780012	352	413290007
413780012	2,597	413290007
413780014	58	413290007
413780014	760	413290007
413780014	1,596	413290007
413780016	140	413290007
413780016	148	413290007
413780016	229	413290007
413780016	372	413290007
413780016	750	413290007
413780016	2,475	413290007
413900001	118	413290007
413900002	191	413290007
413900003	238	413290007
413900004	204	413290007
413900005	69	413290007
413900006	101	413290007
413900007	484	413290007
413900008	40	413290007
413900009	127	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413900010	100	413290007
413900011	166	413290007
413900012	182	413290007
413900013	44	413290007
413900014	55	413290007
413900015	166	413290007
413900016	41	413290007
413900017	63	413290007
413900018	189	413290007
413900019	159	413290007
413901001	228	413290007
413901002	60	413290007
413901003	96	413290007
413901004	94	413290007
413901005	81	413290007
413901006	96	413290007
413901007	90	413290007
413901008	82	413290007
413901009	147	413290007
413901010	56	413290007
413901011	115	413290007
413901012	33	413290007
413901013	227	413290007
413901014	46	413290007
413901015	79	413290007
413901016	104	413290007
413901017	100	413290007
413901018	108	413290007
413901019	38	413290007
413901020	220	413290007
413901021	161	413290007
413901022	2,492	413290007
413902001	76	413290007
413902002	179	413290007
413902003	118	413290007
413902004	59	413290007
413902005	116	413290007
413902006	67	413290007
413902007	151	413290007
413902008	72	413290007
413902009	161	413290007
413902010	67	413290007
413902011	118	413290007
413902012	178	413290007
413902013	134	413290007
413902014	102	413290007
413902015	85	413290007
413902016	76	413290007
413902017	120	413290007
413902018	42	413290007
413902019	158	413290007
413902020	100	413290007
413902021	169	413290007
413902022	76	413290007
413902023	137	413290007
413902024	120	413290007
413902025	78	413290007
413910001	322	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413910002	223	413290007
413910003	272	413290007
413910004	133	413290007
413910005	69	413290007
413910006	98	413290007
413910007	107	413290007
413910008	198	413290007
413910009	68	413290007
413910010	77	413290007
413910011	146	413290007
413910012	301	413290007
413910013	148	413290007
413910014	83	413290007
413910015	28	413290007
413910016	145	413290007
413910017	25	413290007
413910018	158	413290007
413910019	52	413290007
413910020	226	413290007
413910021	115	413290007
413910022	286	413290007
413910023	185	413290007
413910024	100	413290007
413910025	78	413290007
413910026	51	413290007
413910027	143	413290007
413910028	15	413290007
413910029	66	413290007
413910030	90	413290007
413910031	29	413290007
413910032	66	413290007
413910033	54	413290007
413910034	104	413290007
413910035	161	413290007
413910036	159	413290007
413910037	203	413290007
413910038	97	413290007
413910039	121	413290007
413910040	221	413290007
413910041	102	413290007
413910042	135	413290007
413910043	146	413290007
413910044	34	413290007
413910045	99	413290007
413910046	49	413290007
413910047	137	413290007
413910048	221	413290007
413911001	65	413290007
413911002	68	413290007
413911003	27	413290007
413911004	118	413290007
413911005	92	413290007
413911006	40	413290007
413911007	101	413290007
413911008	112	413290007
413920001	261	413290007
413920002	89	413290007
413920003	165	413290007

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413920004	100	413290007
413920005	207	413290007
413920006	191	413290007
413920007	84	413290007
413920008	102	413290007
413920009	53	413290007
413920010	61	413290007
413920011	175	413290007
413920012	56	413290007
413920013	96	413290007
413920014	191	413290007
413920015	90	413290007
413920016	251	413290007
413920017	85	413290007
413920018	194	413290007
413920019	80	413290007
413920020	43	413290007
413920021	113	413290007
413920022	193	413290007
413920023	63	413290007
413920024	102	413290007
413920025	114	413290007
413920026	25	413290007
413920027	100	413290007
413920028	237	413290007
413920029	190	413290007
413920030	64	413290007
413920031	123	413290007
413920032	80	413290007
413920033	106	413290007
413920034	176	413290007
413920035	193	413290007
413920036	62	413290007
413920037	95	413290007
413920038	77	413290007
413920039	189	413290007
413920040	95	413290007
413920041	71	413290007
413920042	85	413290007
413930001	94	413290003
413930002	200	413290003
413930003	205	413290003
413930004	210	413290003
413930005	88	413290003
413930006	200	413290003
413930007	200	413290003
413930008	208	413290003
413930009	248	413290003
413930010	138	413290003
413930011	110	413290003
413930012	44	413290003
413930013	104	413290003
413930014	90	413290003
413930015	249	413290003
413931001	219	413290003
413931002	269	413290003
413931003	150	413290003
413931004	152	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413931005	343	413290003
413931006	179	413290003
413931007	330	413290003
413931008	270	413290003
413931009	121	413290003
413932001	259	413290003
413932002	363	413290003
413932003	125	413290003
413932004	195	413290003
413932005	174	413290003
413932006	177	413290003
413932007	286	413290003
413932008	378	413290003
413932009	264	413290003
413933001	231	413290003
413933002	189	413290003
413933003	279	413290003
413933004	156	413290003
413933005	616	413290003
413933006	363	413290003
413933007	224	413290003
413933008	552	413290003
413933009	347	413290003
413933010	713	413290003
413933011	298	413290003
413933012	269	413290003
413933013	251	413290003
413933014	155	413290003
413933015	132	413290003
413933016	239	413290003
413933017	297	413290003
413933018	240	413290003
413933019	143	413290003
413933020	251	413290003
413933021	216	413290003
413933022	441	413290003
413933023	127	413290003
413933024	162	413290003
413933025	397	413290003
413933026	197	413290003
413933027	104	413290003
413933028	150	413290003
413933029	67	413290003
413933030	98	413290003
413933031	285	413290003
413933032	203	413290003
413933033	302	413290003
413933034	253	413290003
413933035	74	413290003
413933036	206	413290003
413933037	176	413290003
413933038	103	413290003
413933039	162	413290003
413933040	174	413290003
413933041	95	413290003
413940001	119	413290003
413940002	217	413290003
413940003	101	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413940004	106	413290003
413940005	204	413290003
413940006	183	413290003
413940007	203	413290003
413940008	238	413290003
413940009	154	413290003
413941001	178	413290003
413941002	234	413290003
413941003	123	413290003
413941004	135	413290003
413941005	134	413290003
413941006	295	413290003
413941007	273	413290003
413941008	151	413290003
413941009	69	413290003
413941010	316	413290003
413941011	121	413290003
413941012	161	413290003
413941013	637	413290003
413941014	828	413290003
413941015	87	413290003
413941016	537	413290003
413941017	167	413290003
413941018	401	413290003
413941019	103	413290003
413941020	141	413290003
413941021	39	413290003
413941022	153	413290003
413941023	241	413290003
413950001	164	413290003
413950002	57	413290003
413950003	159	413290003
413950004	145	413290003
413950005	202	413290003
413950006	120	413290003
413950007	382	413290003
413950008	67	413290003
413950009	197	413290003
413950010	185	413290003
413950011	198	413290003
413950012	83	413290003
413950013	189	413290003
413950014	166	413290003
413950015	177	413290003
413950016	97	413290003
413950017	192	413290003
413950018	228	413290003
413950019	108	413290003
413950020	85	413290003
413950021	129	413290003
413950022	256	413290003
413950023	228	413290003
413950024	209	413290003
413950025	283	413290003
413950026	144	413290003
413950027	16	413290003
413950028	255	413290003
413950029	123	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413950030	304	413290003
413950031	43	413290003
413950032	240	413290003
413950033	237	413290003
413950034	326	413290003
413951001	105	413290003
413951002	147	413290003
413951003	264	413290003
413951004	86	413290003
413951005	184	413290003
413951006	215	413290003
413951007	170	413290003
413952001	197	413290003
413952002	92	413290003
413952003	126	413290003
413952004	258	413290003
413952005	211	413290003
413952006	104	413290003
413952007	191	413290003
413952008	68	413290003
413952009	324	413290003
413952010	200	413290003
413952011	172	413290003
413960001	182	413290003
413960002	76	413290003
413960003	103	413290003
413960004	150	413290003
413960005	155	413290003
413960006	222	413290003
413960007	89	413290003
413960008	116	413290003
413960009	130	413290003
413960010	141	413290003
413960011	298	413290003
413960012	378	413290003
413960013	261	413290003
413960014	166	413290003
413960015	39	413290003
413960016	59	413290003
413960017	210	413290003
413960018	55	413290003
413960019	220	413290003
413960020	363	413290003
413960021	209	413290003
413960022	143	413290003
413960023	357	413290003
413960024	342	413290003
413960025	18,866	413290003
413961001	258	413290003
413961002	111	413290003
413961003	120	413290003
413961004	332	413290003
413961005	111	413290003
413961006	299	413290003
413961007	275	413290003
413961008	236	413290003
413961009	81	413290003
413961010	112	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413961011	217	413290003
413961012	84	413290003
413961013	204	413290003
413961014	114	413290003
413961015	80	413290003
413961016	103	413290003
413961017	142	413290003
413961018	159	413290003
413961019	215	413290003
413961020	159	413290003
413961021	143	413290003
413961022	89	413290003
413961023	84	413290003
413961024	169	413290003
413961025	109	413290003
413961026	84	413290003
413961027	87	413290003
413961028	104	413290003
413961029	152	413290003
413961030	186	413290003
413962001	252	413290003
413962002	199	413290003
413962003	89	413290003
413962004	219	413290003
413962005	163	413290003
413962006	121	413290003
413962007	164	413290003
413962008	163	413290003
413963001	115	413290003
413963002	130	413290003
413963003	148	413290003
413963004	85	413290003
413963005	224	413290003
413963006	195	413290003
413963007	196	413290003
413963008	136	413290003
413963009	283	413290003
413963010	91	413290003
413963011	433	413290003
413963012	297	413290003
413963013	199	413290003
413963014	86	413290003
413963015	147	413290003
413963016	269	413290003
413963017	221	413290003
413963018	171	413290003
413963019	298	413290003
413963020	119	413290003
413963021	205	413290003
413963022	294	413290003
413963023	139	413290003
413963024	144	413290003
413963025	262	413290003
413963026	77	413290003
413963027	232	413290003
413963028	187	413290003
413970001	110	413290003
413970002	207	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413970003	102	413290003
413970004	132	413290003
413970005	195	413290003
413970006	79	413290003
413970007	140	413290003
413970008	37	413290003
413970009	134	413290003
413970010	74	413290003
413970011	228	413290003
413970012	297	413290003
413970013	192	413290003
413970014	74	413290003
413971001	147	413290003
413971002	298	413290003
413971003	227	413290003
413971004	269	413290003
413971005	131	413290003
413971006	256	413290003
413971007	255	413290003
413971008	298	413290003
413971009	337	413290003
413971010	182	413290003
413971011	199	413290003
413971012	60	413290003
413971013	539	413290003
413971014	196	413290003
413971015	321	413290003
413971016	158	413290003
413971017	82	413290003
413971018	250	413290003
413971019	309	413290003
413980001	164	413290003
413980002	178	413290003
413980003	208	413290007
413980004	152	413290007
413980005	167	413290007
413980006	225	413290007
413980007	201	413290007
413980008	208	413290007
413980009	390	413290007
413980010	80	413290007
413980011	125	413290007
413980012	109	413290003
413980013	199	413290003
413980014	114	413290003
413980015	189	413290003
413980016	165	413290003
413980017	144	413290003
413980018	107	413290003
413980019	158	413290003
413980020	204	413290003
413980021	136	413290007
413980022	198	413290007
413980023	56	413290007
413980024	199	413290007
413980025	128	413290003
413980026	91	413290003
413981001	150	413290003

Assessor's Parcel Number	Water Served in Calendar Year 2022 (kgal)	Assessor's Parcel Number in Exhibit D of Judgment
413981002	116	413290003
413981003	54	413290007
413981004	120	413290007
413981005	132	413290007
413981006	169	413290007
413981007	117	413290007
413981008	212	413290007
413981009	241	413290007
413981010	131	413290007
413981011	100	413290007
413981012	96	413290007
413981013	104	413290007
413981014	88	413290007
413981015	164	413290007
413981016	178	413290007
413981017	103	413290007
413981018	223	413290007
413981019	161	413290007
413981020	171	413290007
413981021	110	413290003
413981022	1,072	413290003
Total (kgal)		155,837
Total (Acre Feet)		478.25

Appendix G

GAMA Water Quality Analysis Summary (2019-2023) for Drinking Water Production Wells

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning-C2A	3/17/2020	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
Banning-C2A	3/17/2020	ALKALINITY, BICARBONATE	160	MG/L
Banning-C2A	3/17/2020	ALKALINITY, TOTAL	160	MG/L
Banning-C2A	3/17/2020	ALUMINUM	< 50	UG/L
Banning-C2A	3/17/2020	ANTIMONY, TOTAL	< 6	UG/L
Banning-C2A	3/17/2020	ARSENIC	< 2	UG/L
Banning-C2A	3/17/2020	ASBESTOS	< 0.2	MFL
Banning-C2A	3/9/2023	ASBESTOS	< 0.2	MFL
Banning-C2A	3/17/2020	BARIUM	< 100	UG/L
Banning-C2A	3/17/2020	BERYLLIUM, TOTAL	< 1	UG/L
Banning-C2A	3/17/2020	CADMIUM	< 1	UG/L
Banning-C2A	3/17/2020	CALCIUM	41	MG/L
Banning-C2A	3/17/2020	CHLORIDE	9	MG/L
Banning-C2A	3/17/2020	CHROMIUM	16	UG/L
Banning-C2A	3/10/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C2A	5/23/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C2A	8/11/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C2A	11/14/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C2A	3/17/2020	COPPER, FREE	< 50	UG/L
Banning-C2A	3/17/2020	FLUORIDE	0.20	MG/L
Banning-C2A	3/17/2020	HARDNESS, TOTAL (AS CaCO3)	140	MG/L
Banning-C2A	3/17/2020	IRON	< 100	UG/L
Banning-C2A	3/17/2020	LEAD	< 5	UG/L
Banning-C2A	3/17/2020	MAGNESIUM	8.8	MG/L
Banning-C2A	3/17/2020	MANGANESE	< 20	UG/L
Banning-C2A	3/17/2020	MERCURY	< 1	UG/L
Banning-C2A	3/17/2020	NICKEL	< 10	UG/L
Banning-C2A	1/23/2019	NITRATE	2.0	MG/L
Banning-C2A	1/30/2020	NITRATE	1.9	MG/L
Banning-C2A	3/17/2020	NITRATE	1.3	MG/L
Banning-C2A	1/6/2021	NITRATE	1.9	MG/L
Banning-C2A	1/6/2021	NITRATE	1.9	MG/L
Banning-C2A	1/19/2022	NITRATE	1.7	MG/L
Banning-C2A	1/18/2023	NITRATE	1.8	MG/L
Banning-C2A	1/23/2019	NITRITE	< 0.4	MG/L
Banning-C2A	1/30/2020	NITRITE	< 0.4	MG/L
Banning-C2A	3/17/2020	NITRITE	< 0.4	MG/L
Banning-C2A	1/6/2021	NITRITE	< 0.4	MG/L
Banning-C2A	1/6/2021	NITRITE	< 0.4	MG/L
Banning-C2A	1/19/2022	NITRITE	< 0.4	MG/L
Banning-C2A	1/18/2023	NITRITE	< 0.4	MG/L
Banning-C2A	3/17/2020	PERCHLORATE	< 2	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning-C2A	3/17/2020	PH	8.2	PH
Banning-C2A	3/17/2020	POTASSIUM	1.3	MG/L
Banning-C2A	3/17/2020	SELENIUM	< 5	UG/L
Banning-C2A	3/17/2020	SILVER	< 10	UG/L
Banning-C2A	3/17/2020	SODIUM	24	MG/L
Banning-C2A	3/17/2020	SULFATE	9	MG/L
Banning-C2A	3/17/2020	TDS	220	MG/L
Banning-C2A	3/17/2020	TETRACHLOROETHYLENE	< 0.5	UG/L
Banning-C2A	3/17/2020	THALLIUM, TOTAL	< 1	UG/L
Banning-C2A	3/17/2020	TRICHLOROETHYLENE	< 0.5	UG/L
Banning-C2A	3/17/2020	ZINC	< 50	UG/L
Banning-C3	10/29/2020	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
Banning-C3	10/29/2020	ALKALINITY, BICARBONATE	140	MG/L
Banning-C3	10/29/2020	ALKALINITY, TOTAL	140	MG/L
Banning-C3	10/29/2020	ALUMINUM	< 50	UG/L
Banning-C3	10/29/2020	ANTIMONY, TOTAL	< 6	UG/L
Banning-C3	10/29/2020	ARSENIC	< 2	UG/L
Banning-C3	10/29/2020	ASBESTOS	< 0.2	MFL
Banning-C3	3/8/2023	ASBESTOS	< 0.2	MFL
Banning-C3	10/29/2020	BARIUM	< 100	UG/L
Banning-C3	10/29/2020	BERYLLIUM, TOTAL	< 1	UG/L
Banning-C3	10/29/2020	CADMIUM	< 1	UG/L
Banning-C3	10/29/2020	CALCIUM	31	MG/L
Banning-C3	10/29/2020	CHLORIDE	16	MG/L
Banning-C3	10/29/2020	CHROMIUM	12	UG/L
Banning-C3	3/10/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C3	5/23/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C3	8/11/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C3	11/15/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C3	10/29/2020	COPPER, FREE	< 50	UG/L
Banning-C3	10/29/2020	FLUORIDE	0.34	MG/L
Banning-C3	10/29/2020	HARDNESS, TOTAL (AS CaCO3)	100	MG/L
Banning-C3	10/29/2020	IRON	140	UG/L
Banning-C3	10/29/2020	LEAD	< 5	UG/L
Banning-C3	10/29/2020	MAGNESIUM	5.7	MG/L
Banning-C3	10/29/2020	MANGANESE	< 20	UG/L
Banning-C3	10/29/2020	MERCURY	< 1	UG/L
Banning-C3	10/29/2020	NICKEL	< 10	UG/L
Banning-C3	1/23/2019	NITRATE	1.8	MG/L
Banning-C3	10/29/2020	NITRATE	1.7	MG/L
Banning-C3	1/19/2022	NITRATE	2.0	MG/L
Banning-C3	1/18/2023	NITRATE	1.6	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning-C3	1/23/2019	NITRITE	< 0.4	MG/L
Banning-C3	10/29/2020	NITRITE	< 0.4	MG/L
Banning-C3	1/19/2022	NITRITE	< 0.4	MG/L
Banning-C3	1/18/2023	NITRITE	< 0.4	MG/L
Banning-C3	10/29/2020	PERCHLORATE	< 2	UG/L
Banning-C3	10/29/2020	PH	8.1	PH
Banning-C3	10/29/2020	POTASSIUM	1.6	MG/L
Banning-C3	10/29/2020	SELENIUM	< 5	UG/L
Banning-C3	10/29/2020	SILVER	< 10	UG/L
Banning-C3	10/29/2020	SODIUM	29	MG/L
Banning-C3	10/29/2020	SULFATE	6	MG/L
Banning-C3	10/29/2020	TDS	170	MG/L
Banning-C3	10/29/2020	TETRACHLOROETHYLENE	< 0.5	UG/L
Banning-C3	10/29/2020	THALLIUM, TOTAL	< 1	UG/L
Banning-C3	10/29/2020	TRICHLOROETHYLENE	< 0.5	UG/L
Banning-C3	10/29/2020	ZINC	< 50	UG/L
Banning-C4	3/11/2020	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
Banning-C4	4/17/2023	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
Banning-C4	3/11/2020	ALKALINITY, BICARBONATE	150	MG/L
Banning-C4	4/17/2023	ALKALINITY, BICARBONATE	150	MG/L
Banning-C4	3/11/2020	ALKALINITY, TOTAL	150	MG/L
Banning-C4	4/17/2023	ALKALINITY, TOTAL	150	MG/L
Banning-C4	3/11/2020	ALUMINUM	< 50	UG/L
Banning-C4	4/17/2023	ALUMINUM	< 50	UG/L
Banning-C4	3/11/2020	ANTIMONY, TOTAL	< 6	UG/L
Banning-C4	4/17/2023	ANTIMONY, TOTAL	< 6	UG/L
Banning-C4	3/11/2020	ARSENIC	< 2	UG/L
Banning-C4	4/17/2023	ARSENIC	< 2	UG/L
Banning-C4	3/11/2020	ASBESTOS	< 0.2	MFL
Banning-C4	4/17/2023	ASBESTOS	< 0.2	MFL
Banning-C4	3/11/2020	BARIUM	< 100	UG/L
Banning-C4	4/17/2023	BARIUM	< 100	UG/L
Banning-C4	3/11/2020	BERYLLIUM, TOTAL	< 1	UG/L
Banning-C4	4/17/2023	BERYLLIUM, TOTAL	< 1	UG/L
Banning-C4	3/11/2020	CADMIUM	< 1	UG/L
Banning-C4	4/17/2023	CADMIUM	< 1	UG/L
Banning-C4	3/11/2020	CALCIUM	36	MG/L
Banning-C4	4/17/2023	CALCIUM	26	MG/L
Banning-C4	3/11/2020	CHLORIDE	8	MG/L
Banning-C4	4/17/2023	CHLORIDE	10	MG/L
Banning-C4	3/11/2020	CHROMIUM	16	UG/L
Banning-C4	4/17/2023	CHROMIUM	12	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning-C4	6/28/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C4	8/11/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C4	11/14/2022	COMBINED URANIUM	< 1	PCI/L
Banning-C4	4/17/2023	COMBINED URANIUM	< 1	PCI/L
Banning-C4	3/11/2020	COPPER, FREE	< 50	UG/L
Banning-C4	4/17/2023	COPPER, FREE	< 50	UG/L
Banning-C4	3/11/2020	FLUORIDE	0.25	MG/L
Banning-C4	4/17/2023	FLUORIDE	0.41	MG/L
Banning-C4	3/11/2020	HARDNESS, TOTAL (AS CaCO3)	120	MG/L
Banning-C4	4/17/2023	HARDNESS, TOTAL (AS CaCO3)	90	MG/L
Banning-C4	3/11/2020	IRON	< 100	UG/L
Banning-C4	4/17/2023	IRON	< 100	UG/L
Banning-C4	3/11/2020	LEAD	< 5	UG/L
Banning-C4	4/17/2023	LEAD	< 5	UG/L
Banning-C4	3/11/2020	MAGNESIUM	7.2	MG/L
Banning-C4	4/17/2023	MAGNESIUM	6.0	MG/L
Banning-C4	3/11/2020	MANGANESE	< 20	UG/L
Banning-C4	4/17/2023	MANGANESE	< 20	UG/L
Banning-C4	3/11/2020	MERCURY	< 1	UG/L
Banning-C4	4/17/2023	MERCURY	< 1	UG/L
Banning-C4	3/11/2020	NICKEL	< 10	UG/L
Banning-C4	4/17/2023	NICKEL	< 10	UG/L
Banning-C4	1/23/2019	NITRATE	1.0	MG/L
Banning-C4	1/30/2020	NITRATE	0.9	MG/L
Banning-C4	3/11/2020	NITRATE	1.0	MG/L
Banning-C4	1/6/2021	NITRATE	0.9	MG/L
Banning-C4	1/6/2021	NITRATE	0.9	MG/L
Banning-C4	6/28/2022	NITRATE	1.5	MG/L
Banning-C4	4/17/2023	NITRATE	1.4	MG/L
Banning-C4	1/23/2019	NITRITE	< 0.4	MG/L
Banning-C4	1/30/2020	NITRITE	< 0.4	MG/L
Banning-C4	3/11/2020	NITRITE	< 0.4	MG/L
Banning-C4	1/6/2021	NITRITE	< 0.4	MG/L
Banning-C4	1/6/2021	NITRITE	< 0.4	MG/L
Banning-C4	6/28/2022	NITRITE	< 0.4	MG/L
Banning-C4	4/17/2023	NITRITE	< 0.4	MG/L
Banning-C4	3/11/2020	PERCHLORATE	< 2	UG/L
Banning-C4	4/17/2023	PERCHLORATE	< 2	UG/L
Banning-C4	3/11/2020	PH	8.1	PH
Banning-C4	4/17/2023	PH	8.0	PH
Banning-C4	3/11/2020	POTASSIUM	1.5	MG/L
Banning-C4	4/17/2023	POTASSIUM	1.1	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning-C4	3/11/2020	SELENIUM	< 5	UG/L
Banning-C4	4/17/2023	SELENIUM	< 5	UG/L
Banning-C4	3/11/2020	SILVER	< 10	UG/L
Banning-C4	4/17/2023	SILVER	< 10	UG/L
Banning-C4	3/11/2020	SODIUM	27	MG/L
Banning-C4	4/17/2023	SODIUM	32	MG/L
Banning-C4	3/11/2020	SULFATE	12	MG/L
Banning-C4	4/17/2023	SULFATE	14	MG/L
Banning-C4	3/11/2020	TDS	200	MG/L
Banning-C4	4/17/2023	TDS	180	MG/L
Banning-C4	3/11/2020	TETRACHLOROETHYLENE	< 0.5	UG/L
Banning-C4	4/17/2023	TETRACHLOROETHYLENE	< 0.5	UG/L
Banning-C4	3/11/2020	THALLIUM, TOTAL	< 1	UG/L
Banning-C4	4/17/2023	THALLIUM, TOTAL	< 1	UG/L
Banning-C4	3/11/2020	TRICHLOROETHYLENE	< 0.5	UG/L
Banning-C4	4/17/2023	TRICHLOROETHYLENE	< 0.5	UG/L
Banning-C4	3/11/2020	ZINC	< 50	UG/L
Banning-C4	4/17/2023	ZINC	< 50	UG/L
Banning-M3	2/11/2021	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
Banning-M3	2/11/2021	ALKALINITY, BICARBONATE	170	MG/L
Banning-M3	2/11/2021	ALKALINITY, TOTAL	170	MG/L
Banning-M3	2/11/2021	ALUMINUM	< 50	UG/L
Banning-M3	2/11/2021	ANTIMONY, TOTAL	< 6	UG/L
Banning-M3	2/11/2021	ARSENIC	< 2	UG/L
Banning-M3	2/11/2021	ASBESTOS	< 0.2	MFL
Banning-M3	2/11/2021	BARIUM	< 100	UG/L
Banning-M3	2/11/2021	BERYLLIUM, TOTAL	< 1	UG/L
Banning-M3	2/11/2021	CADMIUM	< 1	UG/L
Banning-M3	2/11/2021	CALCIUM	37	MG/L
Banning-M3	2/11/2021	CHLORIDE	16	MG/L
Banning-M3	2/11/2021	CHROMIUM		UG/L
Banning-M3	3/10/2022	COMBINED URANIUM	< 1	PCI/L
Banning-M3	5/23/2022	COMBINED URANIUM	< 1	PCI/L
Banning-M3	8/11/2022	COMBINED URANIUM	< 1	PCI/L
Banning-M3	11/14/2022	COMBINED URANIUM	< 1	PCI/L
Banning-M3	2/11/2021	COPPER, FREE	< 50	UG/L
Banning-M3	2/11/2021	FLUORIDE	0.32	MG/L
Banning-M3	2/11/2021	HARDNESS, TOTAL (AS CaCO3)	150	MG/L
Banning-M3	2/11/2021	IRON	< 100	UG/L
Banning-M3	2/11/2021	LEAD	< 5	UG/L
Banning-M3	2/11/2021	MAGNESIUM	13.0	MG/L
Banning-M3	2/11/2021	MANGANESE	< 20	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning-M3	2/11/2021	MERCURY	< 1	UG/L
Banning-M3	2/11/2021	NICKEL	< 10	UG/L
Banning-M3	1/23/2019	NITRATE	2.2	MG/L
Banning-M3	1/30/2020	NITRATE	1.6	MG/L
Banning-M3	1/6/2021	NITRATE	2.1	MG/L
Banning-M3	1/6/2021	NITRATE	2.1	MG/L
Banning-M3	2/11/2021	NITRATE	2.3	MG/L
Banning-M3	1/19/2022	NITRATE	2.3	MG/L
Banning-M3	1/18/2023	NITRATE	2.1	MG/L
Banning-M3	1/23/2019	NITRITE	< 0.4	MG/L
Banning-M3	1/30/2020	NITRITE	< 0.4	MG/L
Banning-M3	1/6/2021	NITRITE	< 0.4	MG/L
Banning-M3	1/6/2021	NITRITE	< 0.4	MG/L
Banning-M3	2/11/2021	NITRITE	< 0.4	MG/L
Banning-M3	1/19/2022	NITRITE	< 0.4	MG/L
Banning-M3	1/18/2023	NITRITE	< 0.4	MG/L
Banning-M3	2/11/2021	PERCHLORATE	< 2	UG/L
Banning-M3	2/11/2021	PH	8.1	PH
Banning-M3	2/11/2021	POTASSIUM	2.2	MG/L
Banning-M3	2/11/2021	SELENIUM	< 5	UG/L
Banning-M3	2/11/2021	SILVER	< 10	UG/L
Banning-M3	2/11/2021	SODIUM	39	MG/L
Banning-M3	2/11/2021	SULFATE	33	MG/L
Banning-M3	2/11/2021	TDS	260	MG/L
Banning-M3	2/11/2021	TETRACHLOROETHYLENE	< 0.5	UG/L
Banning-M3	2/11/2021	THALLIUM, TOTAL	< 1	UG/L
Banning-M3	2/11/2021	TRICHLOROETHYLENE	< 0.5	UG/L
Banning-M3	2/11/2021	ZINC	< 50	UG/L
BCVWD-16	12/4/2019	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-16	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-16	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-16	12/4/2019	ALKALINITY, BICARBONATE	180	MG/L
BCVWD-16	11/30/2022	ALKALINITY, BICARBONATE	190	MG/L
BCVWD-16	12/4/2019	ALKALINITY, TOTAL	180	MG/L
BCVWD-16	11/30/2022	ALKALINITY, TOTAL	190	MG/L
BCVWD-16	12/4/2019	ALUMINUM	< 50	UG/L
BCVWD-16	11/30/2022	ALUMINUM	< 50	UG/L
BCVWD-16	12/4/2019	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-16	11/30/2022	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-16	12/4/2019	ARSENIC	< 2	UG/L
BCVWD-16	11/30/2022	ARSENIC	< 2	UG/L
BCVWD-16	12/4/2019	BARIUM	< 100	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-16	11/30/2022	BARIUM	< 100	UG/L
BCVWD-16	12/4/2019	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-16	11/30/2022	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-16	12/4/2019	CADMIUM	< 1	UG/L
BCVWD-16	11/30/2022	CADMIUM	< 1	UG/L
BCVWD-16	12/4/2019	CALCIUM	54	MG/L
BCVWD-16	11/30/2022	CALCIUM	53	MG/L
BCVWD-16	12/4/2019	CHLORIDE	46	MG/L
BCVWD-16	11/30/2022	CHLORIDE	34	MG/L
BCVWD-16	12/4/2019	CHROMIUM		UG/L
BCVWD-16	11/30/2022	CHROMIUM		UG/L
BCVWD-16	12/4/2019	COPPER, FREE	< 50	UG/L
BCVWD-16	11/30/2022	COPPER, FREE	< 50	UG/L
BCVWD-16	12/4/2019	FLUORIDE	0.64	MG/L
BCVWD-16	11/30/2022	FLUORIDE	0.64	MG/L
BCVWD-16	12/4/2019	HARDNESS, TOTAL (AS CaCO3)	220	MG/L
BCVWD-16	11/30/2022	HARDNESS, TOTAL (AS CaCO3)	210	MG/L
BCVWD-16	12/4/2019	IRON	< 100	UG/L
BCVWD-16	11/30/2022	IRON	< 100	UG/L
BCVWD-16	12/4/2019	LEAD	< 5	UG/L
BCVWD-16	11/30/2022	LEAD	< 5	UG/L
BCVWD-16	12/4/2019	MAGNESIUM	20	MG/L
BCVWD-16	11/30/2022	MAGNESIUM	19	MG/L
BCVWD-16	12/4/2019	MANGANESE	< 20	UG/L
BCVWD-16	11/30/2022	MANGANESE	< 20	UG/L
BCVWD-16	12/4/2019	MERCURY	< 1	UG/L
BCVWD-16	11/30/2022	MERCURY	< 1	UG/L
BCVWD-16	12/4/2019	NICKEL	< 10	UG/L
BCVWD-16	11/30/2022	NICKEL	< 10	UG/L
BCVWD-16	10/1/2019	NITRATE	6.9	MG/L
BCVWD-16	12/4/2019	NITRATE	5.1	MG/L
BCVWD-16	5/26/2020	NITRATE	7.0	MG/L
BCVWD-16	6/16/2020	NITRATE	6.8	MG/L
BCVWD-16	7/27/2020	NITRATE	6.7	MG/L
BCVWD-16	10/27/2020	NITRATE	5.1	MG/L
BCVWD-16	12/10/2020	NITRATE	6.2	MG/L
BCVWD-16	2/9/2021	NITRATE	6.2	MG/L
BCVWD-16	3/23/2021	NITRATE	5.3	MG/L
BCVWD-16	4/29/2021	NITRATE	6.0	MG/L
BCVWD-16	5/26/2021	NITRATE	6.7	MG/L
BCVWD-16	6/29/2021	NITRATE	6.3	MG/L
BCVWD-16	7/28/2021	NITRATE	6.1	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-16	8/23/2021	NITRATE	5.7	MG/L
BCVWD-16	9/21/2021	NITRATE	6.3	MG/L
BCVWD-16	10/28/2021	NITRATE	5.7	MG/L
BCVWD-16	11/23/2021	NITRATE	5.7	MG/L
BCVWD-16	12/9/2021	NITRATE	6.1	MG/L
BCVWD-16	1/26/2022	NITRATE	5.7	MG/L
BCVWD-16	2/23/2022	NITRATE	5.6	MG/L
BCVWD-16	3/23/2022	NITRATE	5.4	MG/L
BCVWD-16	4/28/2022	NITRATE	5.5	MG/L
BCVWD-16	5/24/2022	NITRATE	5.4	MG/L
BCVWD-16	6/22/2022	NITRATE	5.1	MG/L
BCVWD-16	7/28/2022	NITRATE	4.7	MG/L
BCVWD-16	9/22/2022	NITRATE	4.7	MG/L
BCVWD-16	10/25/2022	NITRATE	4.8	MG/L
BCVWD-16	11/28/2022	NITRATE	5.0	MG/L
BCVWD-16	11/30/2022	NITRATE	4.8	MG/L
BCVWD-16	12/20/2022	NITRATE	5.1	MG/L
BCVWD-16	2/1/2023	NITRATE	5.1	MG/L
BCVWD-16	3/7/2023	NITRATE	5.0	MG/L
BCVWD-16	4/25/2023	NITRATE	5.0	MG/L
BCVWD-16	5/16/2023	NITRATE	5.1	MG/L
BCVWD-16	6/21/2023	NITRATE	5.0	MG/L
BCVWD-16	7/26/2023	NITRATE	4.7	MG/L
BCVWD-16	8/31/2023	NITRATE	4.4	MG/L
BCVWD-16	9/19/2023	NITRATE	4.6	MG/L
BCVWD-16	10/23/2023	NITRATE	4.7	MG/L
BCVWD-16	11/22/2023	NITRATE	4.2	MG/L
BCVWD-16	12/4/2019	NITRITE	< 0.4	MG/L
BCVWD-16	11/30/2022	NITRITE	< 0.4	MG/L
BCVWD-16	12/4/2019	PERCHLORATE	< 2	UG/L
BCVWD-16	11/30/2022	PERCHLORATE	< 2	UG/L
BCVWD-16	12/4/2019	PH	8.2	PH
BCVWD-16	11/30/2022	PH	7.9	PH
BCVWD-16	12/4/2019	POTASSIUM	1.3	MG/L
BCVWD-16	11/30/2022	POTASSIUM	1.4	MG/L
BCVWD-16	12/4/2019	SELENIUM	< 5	UG/L
BCVWD-16	11/30/2022	SELENIUM	< 5	UG/L
BCVWD-16	12/4/2019	SILVER	< 10	UG/L
BCVWD-16	11/30/2022	SILVER	< 10	UG/L
BCVWD-16	12/4/2019	SODIUM	35	MG/L
BCVWD-16	11/30/2022	SODIUM	37	MG/L
BCVWD-16	12/4/2019	SULFATE	45	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-16	11/30/2022	SULFATE	48	MG/L
BCVWD-16	12/4/2019	TDS	350	MG/L
BCVWD-16	11/30/2022	TDS	330	MG/L
BCVWD-16	12/4/2019	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-16	11/30/2022	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-16	12/4/2019	THALLIUM, TOTAL	< 1	UG/L
BCVWD-16	11/30/2022	THALLIUM, TOTAL	< 1	UG/L
BCVWD-16	12/4/2019	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-16	11/30/2022	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-16	12/4/2019	ZINC	< 50	UG/L
BCVWD-16	11/30/2022	ZINC	< 50	UG/L
BCVWD-21	12/4/2019	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-21	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-21	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-21	12/9/2021	ALKALINITY, BICARBONATE	170	MG/L
BCVWD-21	12/9/2021	ALKALINITY, TOTAL	170	MG/L
BCVWD-21	12/9/2021	ALUMINUM	< 50	UG/L
BCVWD-21	12/9/2021	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-21	12/9/2021	ARSENIC	< 2	UG/L
BCVWD-21	12/9/2021	BARIUM	22	UG/L
BCVWD-21	12/9/2021	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-21	12/9/2021	CADMIUM	< 1	UG/L
BCVWD-21	12/9/2021	CALCIUM	53	MG/L
BCVWD-21	12/9/2021	CHLORIDE	32	MG/L
BCVWD-21	12/9/2021	CHROMIUM	2	UG/L
BCVWD-21	12/10/2020	COMBINED URANIUM	1.00	PCI/L
BCVWD-21	12/9/2021	COPPER, FREE	< 50	UG/L
BCVWD-21	12/9/2021	FLUORIDE	0.49	MG/L
BCVWD-21	12/9/2021	HARDNESS, TOTAL (AS CaCO3)	210	MG/L
BCVWD-21	12/9/2021	IRON	< 100	UG/L
BCVWD-21	12/9/2021	LEAD	< 5	UG/L
BCVWD-21	12/9/2021	MAGNESIUM	19	MG/L
BCVWD-21	12/9/2021	MANGANESE	< 20	UG/L
BCVWD-21	12/9/2021	MERCURY	< 1	UG/L
BCVWD-21	12/9/2021	NICKEL	< 10	UG/L
BCVWD-21	10/1/2019	NITRATE	3.0	MG/L
BCVWD-21	12/4/2019	NITRATE	2.9	MG/L
BCVWD-21	7/27/2020	NITRATE	3.2	MG/L
BCVWD-21	10/27/2020	NITRATE	3.1	MG/L
BCVWD-21	12/10/2020	NITRATE	3.1	MG/L
BCVWD-21	2/9/2021	NITRATE	3.0	MG/L
BCVWD-21	3/23/2021	NITRATE	3.0	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-21	4/29/2021	NITRATE	3.0	MG/L
BCVWD-21	5/26/2021	NITRATE	3.2	MG/L
BCVWD-21	6/29/2021	NITRATE	3.2	MG/L
BCVWD-21	7/28/2021	NITRATE	3.1	MG/L
BCVWD-21	8/23/2021	NITRATE	2.9	MG/L
BCVWD-21	9/21/2021	NITRATE	3.3	MG/L
BCVWD-21	10/28/2021	NITRATE	3.0	MG/L
BCVWD-21	11/23/2021	NITRATE	3.1	MG/L
BCVWD-21	12/9/2021	NITRATE	3.3	MG/L
BCVWD-21	1/26/2022	NITRATE	2.9	MG/L
BCVWD-21	2/23/2022	NITRATE	2.9	MG/L
BCVWD-21	3/23/2022	NITRATE	2.9	MG/L
BCVWD-21	4/28/2022	NITRATE	3.0	MG/L
BCVWD-21	5/24/2022	NITRATE	3.0	MG/L
BCVWD-21	6/22/2022	NITRATE	2.9	MG/L
BCVWD-21	7/28/2022	NITRATE	2.7	MG/L
BCVWD-21	9/22/2022	NITRATE	2.9	MG/L
BCVWD-21	10/25/2022	NITRATE	2.9	MG/L
BCVWD-21	11/28/2022	NITRATE	2.9	MG/L
BCVWD-21	11/30/2022	NITRATE	2.8	MG/L
BCVWD-21	12/20/2022	NITRATE	3.0	MG/L
BCVWD-21	2/1/2023	NITRATE	2.6	MG/L
BCVWD-21	3/7/2023	NITRATE	2.7	MG/L
BCVWD-21	4/25/2023	NITRATE	2.8	MG/L
BCVWD-21	5/16/2023	NITRATE	2.9	MG/L
BCVWD-21	6/21/2023	NITRATE	2.9	MG/L
BCVWD-21	7/26/2023	NITRATE	2.9	MG/L
BCVWD-21	8/31/2023	NITRATE	2.8	MG/L
BCVWD-21	9/19/2023	NITRATE	2.9	MG/L
BCVWD-21	10/23/2023	NITRATE	1.5	MG/L
BCVWD-21	12/9/2021	NITRITE	< 0.4	MG/L
BCVWD-21	12/9/2021	PERCHLORATE	< 2	UG/L
BCVWD-21	12/9/2021	PH	8.1	PH
BCVWD-21	12/9/2021	POTASSIUM	1.8	MG/L
BCVWD-21	12/9/2021	SELENIUM	< 5	UG/L
BCVWD-21	12/9/2021	SILVER	< 10	UG/L
BCVWD-21	12/9/2021	SODIUM	25	MG/L
BCVWD-21	12/9/2021	SULFATE	31	MG/L
BCVWD-21	12/9/2021	TDS	260	MG/L
BCVWD-21	12/4/2019	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-21	11/30/2022	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-21	12/9/2021	THALLIUM, TOTAL	< 1	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-21	12/4/2019	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-21	11/30/2022	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-21	12/9/2021	ZINC	< 50	UG/L
BCVWD-22	12/4/2019	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-22	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-22	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-22	12/4/2019	ALKALINITY, BICARBONATE	180	MG/L
BCVWD-22	11/30/2022	ALKALINITY, BICARBONATE	200	MG/L
BCVWD-22	12/4/2019	ALKALINITY, TOTAL	180	MG/L
BCVWD-22	11/30/2022	ALKALINITY, TOTAL	200	MG/L
BCVWD-22	12/4/2019	ALUMINUM	< 50	UG/L
BCVWD-22	11/30/2022	ALUMINUM	< 50	UG/L
BCVWD-22	12/4/2019	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-22	11/30/2022	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-22	12/4/2019	ARSENIC	< 2	UG/L
BCVWD-22	11/30/2022	ARSENIC	< 2	UG/L
BCVWD-22	12/4/2019	BARIUM	< 100	UG/L
BCVWD-22	11/30/2022	BARIUM	< 100	UG/L
BCVWD-22	12/4/2019	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-22	11/30/2022	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-22	12/4/2019	CADMIUM	< 1	UG/L
BCVWD-22	11/30/2022	CADMIUM	< 1	UG/L
BCVWD-22	12/4/2019	CALCIUM	38	MG/L
BCVWD-22	11/30/2022	CALCIUM	40	MG/L
BCVWD-22	12/4/2019	CHLORIDE	8	MG/L
BCVWD-22	11/30/2022	CHLORIDE	8	MG/L
BCVWD-22	12/4/2019	CHROMIUM		UG/L
BCVWD-22	11/30/2022	CHROMIUM		UG/L
BCVWD-22	12/4/2019	COPPER, FREE	< 50	UG/L
BCVWD-22	11/30/2022	COPPER, FREE	< 50	UG/L
BCVWD-22	12/4/2019	FLUORIDE	0.31	MG/L
BCVWD-22	11/30/2022	FLUORIDE	0.32	MG/L
BCVWD-22	12/4/2019	HARDNESS, TOTAL (AS CaCO3)	160	MG/L
BCVWD-22	11/30/2022	HARDNESS, TOTAL (AS CaCO3)	170	MG/L
BCVWD-22	12/4/2019	IRON	< 100	UG/L
BCVWD-22	11/30/2022	IRON	< 100	UG/L
BCVWD-22	12/4/2019	LEAD	< 5	UG/L
BCVWD-22	11/30/2022	LEAD	< 5	UG/L
BCVWD-22	12/4/2019	MAGNESIUM	16	MG/L
BCVWD-22	11/30/2022	MAGNESIUM	17	MG/L
BCVWD-22	12/4/2019	MANGANESE	< 20	UG/L
BCVWD-22	11/30/2022	MANGANESE	< 20	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-22	12/4/2019	MERCURY	< 1	UG/L
BCVWD-22	11/30/2022	MERCURY	< 1	UG/L
BCVWD-22	12/4/2019	NICKEL	< 10	UG/L
BCVWD-22	11/30/2022	NICKEL	< 10	UG/L
BCVWD-22	12/4/2019	NITRATE	0.9	MG/L
BCVWD-22	12/10/2020	NITRATE	0.9	MG/L
BCVWD-22	12/9/2021	NITRATE	1.3	MG/L
BCVWD-22	11/30/2022	NITRATE	1.4	MG/L
BCVWD-22	11/22/2023	NITRATE	1.5	MG/L
BCVWD-22	12/4/2019	NITRITE	< 0.4	MG/L
BCVWD-22	11/30/2022	NITRITE	< 0.4	MG/L
BCVWD-22	12/4/2019	PERCHLORATE	< 2	UG/L
BCVWD-22	11/30/2022	PERCHLORATE	< 2	UG/L
BCVWD-22	12/4/2019	PH	8.1	PH
BCVWD-22	11/30/2022	PH	8.0	PH
BCVWD-22	12/4/2019	POTASSIUM	1.3	MG/L
BCVWD-22	11/30/2022	POTASSIUM	1.5	MG/L
BCVWD-22	12/4/2019	SELENIUM	< 5	UG/L
BCVWD-22	11/30/2022	SELENIUM	< 5	UG/L
BCVWD-22	12/4/2019	SILVER	< 10	UG/L
BCVWD-22	11/30/2022	SILVER	< 10	UG/L
BCVWD-22	12/4/2019	SODIUM	18	MG/L
BCVWD-22	11/30/2022	SODIUM	18	MG/L
BCVWD-22	12/4/2019	SULFATE	10	MG/L
BCVWD-22	11/30/2022	SULFATE	11	MG/L
BCVWD-22	12/4/2019	TDS	220	MG/L
BCVWD-22	11/30/2022	TDS	200	MG/L
BCVWD-22	12/4/2019	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-22	11/30/2022	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-22	12/4/2019	THALLIUM, TOTAL	< 1	UG/L
BCVWD-22	11/30/2022	THALLIUM, TOTAL	< 1	UG/L
BCVWD-22	12/4/2019	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-22	11/30/2022	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-22	12/4/2019	ZINC	< 50	UG/L
BCVWD-22	11/30/2022	ZINC	< 50	UG/L
BCVWD-23	6/27/2019	1,2-DIBROMO-3-CHLOROPROPANE	0.048	UG/L
BCVWD-23	12/15/2021	1,2-DIBROMO-3-CHLOROPROPANE	0.024	UG/L
BCVWD-23	6/23/2022	1,2-DIBROMO-3-CHLOROPROPANE	0.033	UG/L
BCVWD-23	12/22/2022	1,2-DIBROMO-3-CHLOROPROPANE	0.028	UG/L
BCVWD-23	12/15/2021	ALKALINITY, BICARBONATE	150	MG/L
BCVWD-23	12/15/2021	ALKALINITY, TOTAL	150	MG/L
BCVWD-23	12/15/2021	ALUMINUM	< 50	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-23	12/15/2021	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-23	12/15/2021	ARSENIC	< 2	UG/L
BCVWD-23	12/15/2021	BARIUM	27	UG/L
BCVWD-23	12/15/2021	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-23	12/15/2021	CADMIUM	< 1	UG/L
BCVWD-23	12/15/2021	CALCIUM	49	MG/L
BCVWD-23	12/15/2021	CHLORIDE	46	MG/L
BCVWD-23	12/15/2021	CHROMIUM	5	UG/L
BCVWD-23	12/15/2021	COPPER, FREE	< 50	UG/L
BCVWD-23	12/15/2021	FLUORIDE	0.41	MG/L
BCVWD-23	12/15/2021	HARDNESS, TOTAL (AS CaCO3)	200	MG/L
BCVWD-23	12/15/2021	IRON	< 100	UG/L
BCVWD-23	12/15/2021	LEAD	< 5	UG/L
BCVWD-23	12/15/2021	MAGNESIUM	18	MG/L
BCVWD-23	12/15/2021	MANGANESE	< 20	UG/L
BCVWD-23	12/15/2021	MERCURY	< 1	UG/L
BCVWD-23	12/15/2021	NICKEL	< 10	UG/L
BCVWD-23	12/4/2019	NITRATE	2.1	MG/L
BCVWD-23	12/10/2020	NITRATE	1.9	MG/L
BCVWD-23	12/15/2021	NITRATE	2.2	MG/L
BCVWD-23	12/22/2022	NITRATE	1.8	MG/L
BCVWD-23	11/22/2023	NITRATE	1.6	MG/L
BCVWD-23	12/15/2021	NITRITE	< 0.4	MG/L
BCVWD-23	12/15/2021	PERCHLORATE	< 2	UG/L
BCVWD-23	12/15/2021	PH	8.0	PH
BCVWD-23	12/15/2021	POTASSIUM	1.5	MG/L
BCVWD-23	12/15/2021	SELENIUM	< 5	UG/L
BCVWD-23	12/15/2021	SILVER	< 10	UG/L
BCVWD-23	12/15/2021	SODIUM	20	MG/L
BCVWD-23	12/15/2021	SULFATE	25	MG/L
BCVWD-23	12/15/2021	TDS	270	MG/L
BCVWD-23	12/15/2021	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-23	12/15/2021	THALLIUM, TOTAL	< 1	UG/L
BCVWD-23	12/15/2021	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-23	12/15/2021	ZINC	< 50	UG/L
BCVWD-24	12/4/2019	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-24	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-24	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-24	12/4/2019	ALKALINITY, BICARBONATE	160	MG/L
BCVWD-24	11/30/2022	ALKALINITY, BICARBONATE	170	MG/L
BCVWD-24	12/4/2019	ALKALINITY, TOTAL	160	MG/L
BCVWD-24	11/30/2022	ALKALINITY, TOTAL	170	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-24	12/4/2019	ALUMINUM	< 50	UG/L
BCVWD-24	11/30/2022	ALUMINUM	< 50	UG/L
BCVWD-24	12/4/2019	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-24	11/30/2022	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-24	12/4/2019	ARSENIC	< 2	UG/L
BCVWD-24	11/30/2022	ARSENIC	< 2	UG/L
BCVWD-24	12/4/2019	BARIUM	< 100	UG/L
BCVWD-24	11/30/2022	BARIUM	< 100	UG/L
BCVWD-24	12/4/2019	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-24	11/30/2022	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-24	12/4/2019	CADMIUM	< 1	UG/L
BCVWD-24	11/30/2022	CADMIUM	< 1	UG/L
BCVWD-24	12/4/2019	CALCIUM	35	MG/L
BCVWD-24	11/30/2022	CALCIUM	38	MG/L
BCVWD-24	12/4/2019	CHLORIDE	7	MG/L
BCVWD-24	11/30/2022	CHLORIDE	7	MG/L
BCVWD-24	12/4/2019	CHROMIUM		UG/L
BCVWD-24	11/30/2022	CHROMIUM		UG/L
BCVWD-24	12/4/2019	COPPER, FREE	< 50	UG/L
BCVWD-24	11/30/2022	COPPER, FREE	< 50	UG/L
BCVWD-24	12/4/2019	FLUORIDE	0.35	MG/L
BCVWD-24	11/30/2022	FLUORIDE	0.38	MG/L
BCVWD-24	12/4/2019	HARDNESS, TOTAL (AS CaCO3)	140	MG/L
BCVWD-24	11/30/2022	HARDNESS, TOTAL (AS CaCO3)	150	MG/L
BCVWD-24	12/4/2019	IRON	< 100	UG/L
BCVWD-24	11/30/2022	IRON	< 100	UG/L
BCVWD-24	12/4/2019	LEAD	< 5	UG/L
BCVWD-24	11/30/2022	LEAD	< 5	UG/L
BCVWD-24	12/4/2019	MAGNESIUM	12	MG/L
BCVWD-24	11/30/2022	MAGNESIUM	13	MG/L
BCVWD-24	12/4/2019	MANGANESE	< 20	UG/L
BCVWD-24	11/30/2022	MANGANESE	< 20	UG/L
BCVWD-24	12/4/2019	MERCURY	< 1	UG/L
BCVWD-24	11/30/2022	MERCURY	< 1	UG/L
BCVWD-24	12/4/2019	NICKEL	< 10	UG/L
BCVWD-24	11/30/2022	NICKEL	< 10	UG/L
BCVWD-24	12/4/2019	NITRATE	1.7	MG/L
BCVWD-24	12/10/2020	NITRATE	1.0	MG/L
BCVWD-24	12/9/2021	NITRATE	1.6	MG/L
BCVWD-24	11/30/2022	NITRATE	1.9	MG/L
BCVWD-24	11/22/2023	NITRATE	1.9	MG/L
BCVWD-24	12/4/2019	NITRITE	< 0.4	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-24	11/30/2022	NITRITE	< 0.4	MG/L
BCVWD-24	12/4/2019	PERCHLORATE	< 2	UG/L
BCVWD-24	11/30/2022	PERCHLORATE	< 2	UG/L
BCVWD-24	12/4/2019	PH	8.2	PH
BCVWD-24	11/30/2022	PH	7.9	PH
BCVWD-24	12/4/2019	POTASSIUM	1.3	MG/L
BCVWD-24	11/30/2022	POTASSIUM	1.6	MG/L
BCVWD-24	12/4/2019	SELENIUM	< 5	UG/L
BCVWD-24	11/30/2022	SELENIUM	< 5	UG/L
BCVWD-24	12/4/2019	SILVER	< 10	UG/L
BCVWD-24	11/30/2022	SILVER	< 10	UG/L
BCVWD-24	12/4/2019	SODIUM	17	MG/L
BCVWD-24	11/30/2022	SODIUM	19	MG/L
BCVWD-24	12/4/2019	SULFATE	11	MG/L
BCVWD-24	11/30/2022	SULFATE	11	MG/L
BCVWD-24	12/4/2019	TDS	200	MG/L
BCVWD-24	11/30/2022	TDS	200	MG/L
BCVWD-24	12/4/2019	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-24	11/30/2022	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-24	12/4/2019	THALLIUM, TOTAL	< 1	UG/L
BCVWD-24	11/30/2022	THALLIUM, TOTAL	< 1	UG/L
BCVWD-24	12/4/2019	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-24	11/30/2022	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-24	12/4/2019	ZINC	< 50	UG/L
BCVWD-24	11/30/2022	ZINC	< 50	UG/L
BCVWD-25	12/15/2021	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-25	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-25	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-25	12/15/2021	ALKALINITY, BICARBONATE	180	MG/L
BCVWD-25	12/15/2021	ALKALINITY, TOTAL	180	MG/L
BCVWD-25	12/15/2021	ALUMINUM	< 50	UG/L
BCVWD-25	12/15/2021	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-25	12/15/2021	ARSENIC	< 2	UG/L
BCVWD-25	12/15/2021	BARIUM	< 100	UG/L
BCVWD-25	12/15/2021	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-25	12/15/2021	CADMIUM	< 1	UG/L
BCVWD-25	12/15/2021	CALCIUM	43	MG/L
BCVWD-25	12/15/2021	CHLORIDE	11	MG/L
BCVWD-25	12/15/2021	CHROMIUM	11	UG/L
BCVWD-25	12/10/2020	COMBINED URANIUM	1.12	PCI/L
BCVWD-25	12/15/2021	COPPER, FREE	< 50	UG/L
BCVWD-25	12/15/2021	FLUORIDE	0.24	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-25	12/15/2021	HARDNESS, TOTAL (AS CaCO3)	160	MG/L
BCVWD-25	12/15/2021	IRON	< 100	UG/L
BCVWD-25	12/15/2021	LEAD	< 5	UG/L
BCVWD-25	12/15/2021	MAGNESIUM	13.0	MG/L
BCVWD-25	12/15/2021	MANGANESE	< 20	UG/L
BCVWD-25	12/15/2021	MERCURY	< 1	UG/L
BCVWD-25	12/15/2021	NICKEL	< 10	UG/L
BCVWD-25	12/4/2019	NITRATE	0.8	MG/L
BCVWD-25	12/10/2020	NITRATE	1.1	MG/L
BCVWD-25	12/15/2021	NITRATE	1.4	MG/L
BCVWD-25	11/30/2022	NITRATE	1.2	MG/L
BCVWD-25	11/22/2023	NITRATE	1.2	MG/L
BCVWD-25	12/15/2021	NITRITE	< 0.4	MG/L
BCVWD-25	12/15/2021	PERCHLORATE	< 2	UG/L
BCVWD-25	12/15/2021	PH	8.1	PH
BCVWD-25	12/15/2021	POTASSIUM	1.6	MG/L
BCVWD-25	12/15/2021	SELENIUM	< 5	UG/L
BCVWD-25	12/15/2021	SILVER	< 10	UG/L
BCVWD-25	12/15/2021	SODIUM	21	MG/L
BCVWD-25	12/15/2021	SULFATE	16	MG/L
BCVWD-25	12/15/2021	TDS	220	MG/L
BCVWD-25	12/15/2021	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-25	12/15/2021	THALLIUM, TOTAL	< 1	UG/L
BCVWD-25	12/15/2021	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-25	12/15/2021	ZINC	< 50	UG/L
BCVWD-26	11/30/2022	COMBINED URANIUM	< 1	PCI/L
BCVWD-26	12/4/2019	NITRATE	0.6	MG/L
BCVWD-26	12/10/2020	NITRATE	0.7	MG/L
BCVWD-26	12/9/2021	NITRATE	0.7	MG/L
BCVWD-26	11/30/2022	NITRATE	1.0	MG/L
BCVWD-26	11/22/2023	NITRATE	1.0	MG/L
BCVWD-29	12/15/2021	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-29	12/15/2021	ALKALINITY, BICARBONATE	160	MG/L
BCVWD-29	12/15/2021	ALKALINITY, TOTAL	160	MG/L
BCVWD-29	12/15/2021	ALUMINUM	< 50	UG/L
BCVWD-29	12/15/2021	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-29	12/15/2021	ARSENIC	< 2	UG/L
BCVWD-29	12/15/2021	BARIUM	20	UG/L
BCVWD-29	12/15/2021	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-29	12/15/2021	CADMIUM	< 1	UG/L
BCVWD-29	12/15/2021	CALCIUM	41	MG/L
BCVWD-29	12/15/2021	CHLORIDE	15	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-29	12/15/2021	CHROMIUM	8	UG/L
BCVWD-29	12/15/2021	COPPER, FREE	< 50	UG/L
BCVWD-29	12/15/2021	FLUORIDE	0.33	MG/L
BCVWD-29	12/15/2021	HARDNESS, TOTAL (AS CaCO3)	160	MG/L
BCVWD-29	12/15/2021	IRON	< 100	UG/L
BCVWD-29	12/15/2021	LEAD	< 5	UG/L
BCVWD-29	12/15/2021	MAGNESIUM	14.0	MG/L
BCVWD-29	12/15/2021	MANGANESE	< 20	UG/L
BCVWD-29	12/15/2021	MERCURY	< 1	UG/L
BCVWD-29	12/15/2021	NICKEL	< 10	UG/L
BCVWD-29	12/4/2019	NITRATE	1.8	MG/L
BCVWD-29	12/10/2020	NITRATE	2.4	MG/L
BCVWD-29	12/15/2021	NITRATE	2.1	MG/L
BCVWD-29	11/30/2022	NITRATE	2.8	MG/L
BCVWD-29	11/22/2023	NITRATE	2.7	MG/L
BCVWD-29	12/15/2021	NITRITE	< 0.4	MG/L
BCVWD-29	12/15/2021	PERCHLORATE	< 2	UG/L
BCVWD-29	12/15/2021	PH	8.1	PH
BCVWD-29	12/15/2021	POTASSIUM	1.7	MG/L
BCVWD-29	12/15/2021	SELENIUM	< 5	UG/L
BCVWD-29	12/15/2021	SILVER	< 10	UG/L
BCVWD-29	12/15/2021	SODIUM	19	MG/L
BCVWD-29	12/15/2021	SULFATE	12	MG/L
BCVWD-29	12/15/2021	TDS	210	MG/L
BCVWD-29	12/15/2021	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-29	12/15/2021	THALLIUM, TOTAL	< 1	UG/L
BCVWD-29	12/15/2021	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-29	12/15/2021	ZINC	< 50	UG/L
BCVWD-3	12/16/2020	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-3	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-3	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
BCVWD-3	12/16/2020	ALKALINITY, BICARBONATE	160	MG/L
BCVWD-3	12/13/2023	ALKALINITY, BICARBONATE	140	MG/L
BCVWD-3	12/16/2020	ALKALINITY, TOTAL	160	MG/L
BCVWD-3	12/13/2023	ALKALINITY, TOTAL	140	MG/L
BCVWD-3	12/16/2020	ALUMINUM	< 50	UG/L
BCVWD-3	12/13/2023	ALUMINUM	< 50	UG/L
BCVWD-3	12/16/2020	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-3	12/13/2023	ANTIMONY, TOTAL	< 6	UG/L
BCVWD-3	12/16/2020	ARSENIC	< 2	UG/L
BCVWD-3	12/13/2023	ARSENIC	< 2	UG/L
BCVWD-3	12/16/2020	BARIUM	< 100	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-3	12/13/2023	BARIUM	< 100	UG/L
BCVWD-3	12/16/2020	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-3	12/13/2023	BERYLLIUM, TOTAL	< 1	UG/L
BCVWD-3	12/16/2020	CADMIUM	< 1	UG/L
BCVWD-3	12/13/2023	CADMIUM	< 1	UG/L
BCVWD-3	12/16/2020	CALCIUM	35	MG/L
BCVWD-3	12/13/2023	CALCIUM	32	MG/L
BCVWD-3	12/16/2020	CHLORIDE	8	MG/L
BCVWD-3	12/13/2023	CHLORIDE	7	MG/L
BCVWD-3	12/16/2020	CHROMIUM	11	UG/L
BCVWD-3	12/13/2023	CHROMIUM	11	UG/L
BCVWD-3	9/14/2021	COMBINED URANIUM	1.08	PCI/L
BCVWD-3	12/16/2020	COPPER, FREE	< 50	UG/L
BCVWD-3	12/13/2023	COPPER, FREE	< 50	UG/L
BCVWD-3	12/16/2020	FLUORIDE	0.32	MG/L
BCVWD-3	12/13/2023	FLUORIDE	0.28	MG/L
BCVWD-3	12/16/2020	HARDNESS, TOTAL (AS CaCO3)	120	MG/L
BCVWD-3	12/13/2023	HARDNESS, TOTAL (AS CaCO3)	110	MG/L
BCVWD-3	12/16/2020	IRON	< 100	UG/L
BCVWD-3	12/13/2023	IRON	110	UG/L
BCVWD-3	12/16/2020	LEAD	< 5	UG/L
BCVWD-3	12/13/2023	LEAD	< 5	UG/L
BCVWD-3	12/16/2020	MAGNESIUM	8.5	MG/L
BCVWD-3	12/13/2023	MAGNESIUM	6.7	MG/L
BCVWD-3	12/16/2020	MANGANESE	< 20	UG/L
BCVWD-3	12/13/2023	MANGANESE	24	UG/L
BCVWD-3	12/16/2020	MERCURY	< 1	UG/L
BCVWD-3	12/13/2023	MERCURY	< 1	UG/L
BCVWD-3	12/16/2020	NICKEL	< 10	UG/L
BCVWD-3	12/13/2023	NICKEL	< 10	UG/L
BCVWD-3	12/16/2020	NITRATE	0.9	MG/L
BCVWD-3	12/9/2021	NITRATE	0.9	MG/L
BCVWD-3	11/30/2022	NITRATE	1.0	MG/L
BCVWD-3	12/13/2023	NITRATE	0.5	MG/L
BCVWD-3	12/16/2020	NITRITE	< 0.4	MG/L
BCVWD-3	12/13/2023	NITRITE	< 0.4	MG/L
BCVWD-3	12/16/2020	PERCHLORATE	< 2	UG/L
BCVWD-3	12/13/2023	PERCHLORATE	< 2	UG/L
BCVWD-3	12/16/2020	PH	8.1	PH
BCVWD-3	12/13/2023	PH	8.1	PH
BCVWD-3	12/16/2020	POTASSIUM	1.5	MG/L
BCVWD-3	12/13/2023	POTASSIUM	1.8	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD-3	12/16/2020	SELENIUM	< 5	UG/L
BCVWD-3	12/13/2023	SELENIUM	< 5	UG/L
BCVWD-3	12/16/2020	SILVER	< 10	UG/L
BCVWD-3	12/13/2023	SILVER	< 10	UG/L
BCVWD-3	12/16/2020	SODIUM	23	MG/L
BCVWD-3	12/13/2023	SODIUM	30	MG/L
BCVWD-3	12/16/2020	SULFATE	11	MG/L
BCVWD-3	12/13/2023	SULFATE	12	MG/L
BCVWD-3	12/16/2020	TDS	190	MG/L
BCVWD-3	12/13/2023	TDS	180	MG/L
BCVWD-3	12/16/2020	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-3	12/13/2023	TETRACHLOROETHYLENE	< 0.5	UG/L
BCVWD-3	12/16/2020	THALLIUM, TOTAL	< 1	UG/L
BCVWD-3	12/13/2023	THALLIUM, TOTAL	< 1	UG/L
BCVWD-3	12/16/2020	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-3	12/13/2023	TRICHLOROETHYLENE	< 0.5	UG/L
BCVWD-3	12/16/2020	ZINC	< 50	UG/L
BCVWD-3	12/13/2023	ZINC	< 50	UG/L
Plantation-1	3/24/2020	ALKALINITY, BICARBONATE	240	MG/L
Plantation-1	3/23/2023	ALKALINITY, BICARBONATE	200	MG/L
Plantation-1	3/24/2020	ALKALINITY, TOTAL	190	MG/L
Plantation-1	3/23/2023	ALKALINITY, TOTAL	200	MG/L
Plantation-1	3/24/2020	ALUMINUM	< 50	UG/L
Plantation-1	3/23/2023	ALUMINUM	< 50	UG/L
Plantation-1	3/24/2020	ANTIMONY, TOTAL	< 6	UG/L
Plantation-1	3/23/2023	ANTIMONY, TOTAL	< 6	UG/L
Plantation-1	3/24/2020	ARSENIC	< 2	UG/L
Plantation-1	3/23/2023	ARSENIC	< 2	UG/L
Plantation-1	3/23/2023	ASBESTOS	< 0.2	MFL
Plantation-1	3/24/2020	BARIUM	< 100	UG/L
Plantation-1	3/23/2023	BARIUM	< 100	UG/L
Plantation-1	3/24/2020	BERYLLIUM, TOTAL	< 1	UG/L
Plantation-1	3/23/2023	BERYLLIUM, TOTAL	< 1	UG/L
Plantation-1	3/24/2020	CADMIUM	< 1	UG/L
Plantation-1	3/23/2023	CADMIUM	< 1	UG/L
Plantation-1	3/24/2020	CALCIUM	52	MG/L
Plantation-1	3/23/2023	CALCIUM	50	MG/L
Plantation-1	3/24/2020	CHLORIDE	17	MG/L
Plantation-1	3/23/2023	CHLORIDE	15	MG/L
Plantation-1	3/24/2020	CHROMIUM		UG/L
Plantation-1	3/23/2023	CHROMIUM		UG/L
Plantation-1	3/24/2020	COPPER, FREE	< 50	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Plantation-1	3/23/2023	COPPER, FREE	< 50	UG/L
Plantation-1	3/24/2020	FLUORIDE	0.41	MG/L
Plantation-1	3/23/2023	FLUORIDE	0.42	MG/L
Plantation-1	3/24/2020	HARDNESS, TOTAL (AS CaCO3)	210	MG/L
Plantation-1	3/23/2023	HARDNESS, TOTAL (AS CaCO3)	200	MG/L
Plantation-1	3/24/2020	IRON	< 100	UG/L
Plantation-1	3/23/2023	IRON	< 100	UG/L
Plantation-1	3/24/2020	LEAD	< 5	UG/L
Plantation-1	3/23/2023	LEAD	< 5	UG/L
Plantation-1	3/24/2020	MAGNESIUM	18	MG/L
Plantation-1	3/23/2023	MAGNESIUM	18	MG/L
Plantation-1	3/3/2022	MANGANESE	< 20	UG/L
Plantation-1	3/23/2023	MANGANESE	< 20	UG/L
Plantation-1	3/24/2020	MERCURY	< 1	UG/L
Plantation-1	3/23/2023	MERCURY	< 1	UG/L
Plantation-1	3/24/2020	NICKEL	< 10	UG/L
Plantation-1	3/23/2023	NICKEL	< 10	UG/L
Plantation-1	7/22/2019	NITRATE	2.0	MG/L
Plantation-1	12/16/2020	NITRATE	2.2	MG/L
Plantation-1	12/20/2021	NITRATE	2.1	MG/L
Plantation-1	12/21/2022	NITRATE	2.0	MG/L
Plantation-1	3/23/2023	NITRATE	1.9	MG/L
Plantation-1	3/23/2023	NITRATE-NITRITE	1.9	MG/L
Plantation-1	3/24/2020	NITRITE	< 0.4	MG/L
Plantation-1	3/23/2023	NITRITE	< 0.4	MG/L
Plantation-1	3/24/2020	PERCHLORATE	< 2	UG/L
Plantation-1	3/23/2023	PERCHLORATE	< 2	UG/L
Plantation-1	3/24/2020	PH	7.5	PH
Plantation-1	3/23/2023	PH	7.7	PH
Plantation-1	3/23/2023	POTASSIUM	0.0	MG/L
Plantation-1	3/24/2020	SELENIUM	< 5	UG/L
Plantation-1	3/23/2023	SELENIUM	< 5	UG/L
Plantation-1	3/24/2020	SILVER	< 10	UG/L
Plantation-1	3/23/2023	SILVER	< 10	UG/L
Plantation-1	3/24/2020	SODIUM	19	MG/L
Plantation-1	3/23/2023	SODIUM	19	MG/L
Plantation-1	3/24/2020	SULFATE	12	MG/L
Plantation-1	3/23/2023	SULFATE	12	MG/L
Plantation-1	3/24/2020	TDS	260	MG/L
Plantation-1	3/23/2023	TDS	280	MG/L
Plantation-1	3/24/2020	THALLIUM, TOTAL	< 1	UG/L
Plantation-1	3/23/2023	THALLIUM, TOTAL	< 1	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Plantation-1	3/24/2020	ZINC	< 50	UG/L
Plantation-1	3/23/2023	ZINC	< 50	UG/L
RCMHP-1	4/29/2019	ALKALINITY, BICARBONATE	190	MG/L
RCMHP-1	4/29/2019	ALKALINITY, TOTAL	190	MG/L
RCMHP-1	4/29/2019	ALUMINUM	< 50	UG/L
RCMHP-1	4/29/2019	ANTIMONY, TOTAL	< 6	UG/L
RCMHP-1	4/29/2019	ARSENIC	< 2	UG/L
RCMHP-1	4/29/2019	BARIUM	< 100	UG/L
RCMHP-1	4/29/2019	BERYLLIUM, TOTAL	< 1	UG/L
RCMHP-1	4/29/2019	CADMIUM	< 1	UG/L
RCMHP-1	4/29/2019	CALCIUM	42	MG/L
RCMHP-1	4/29/2019	CHLORIDE	23	MG/L
RCMHP-1	4/29/2019	CHROMIUM		UG/L
RCMHP-1	4/29/2019	COPPER, FREE	< 50	UG/L
RCMHP-1	4/29/2019	FLUORIDE	0.55	MG/L
RCMHP-1	4/29/2019	HARDNESS, TOTAL (AS CaCO3)	170	MG/L
RCMHP-1	4/29/2019	IRON	< 100	UG/L
RCMHP-1	4/29/2019	LEAD	< 5	UG/L
RCMHP-1	4/29/2019	MAGNESIUM	15	MG/L
RCMHP-1	4/29/2019	MANGANESE	< 20	UG/L
RCMHP-1	4/29/2019	MERCURY	< 1	UG/L
RCMHP-1	4/29/2019	NICKEL	< 10	UG/L
RCMHP-1	1/3/2019	NITRATE	5.5	MG/L
RCMHP-1	10/7/2019	NITRATE	5.3	MG/L
RCMHP-1	1/13/2020	NITRATE	5.2	MG/L
RCMHP-1	7/6/2020	NITRATE	4.7	MG/L
RCMHP-1	10/5/2020	NITRATE	5.2	MG/L
RCMHP-1	1/18/2021	NITRATE	5.2	MG/L
RCMHP-1	5/10/2021	NITRATE	5.2	MG/L
RCMHP-1	8/2/2021	NITRATE	4.8	MG/L
RCMHP-1	10/18/2021	NITRATE	3.0	MG/L
RCMHP-1	2/7/2022	NITRATE	4.8	MG/L
RCMHP-1	4/22/2022	NITRATE	4.7	MG/L
RCMHP-1	7/18/2022	NITRATE	4.6	MG/L
RCMHP-1	4/29/2019	NITRITE	< 0.4	MG/L
RCMHP-1	2/7/2022	NITRITE	< 0.4	MG/L
RCMHP-1	4/29/2019	PERCHLORATE	< 2	UG/L
RCMHP-1	4/29/2019	PH	8.2	PH
RCMHP-1	4/29/2019	SELENIUM	< 5	UG/L
RCMHP-1	4/29/2019	SILVER	< 10	UG/L
RCMHP-1	4/29/2019	SODIUM	27	MG/L
RCMHP-1	4/29/2019	SULFATE	12	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
RCMHP-1	4/29/2019	TDS	260	MG/L
RCMHP-1	4/29/2019	THALLIUM, TOTAL	< 1	UG/L
RCMHP-1	4/29/2019	ZINC	< 50	UG/L
RCMHP-2	4/29/2019	ALKALINITY, BICARBONATE	190	MG/L
RCMHP-2	11/21/2022	ALKALINITY, BICARBONATE	190	MG/L
RCMHP-2	4/29/2019	ALKALINITY, TOTAL	190	MG/L
RCMHP-2	11/21/2022	ALKALINITY, TOTAL	190	MG/L
RCMHP-2	4/29/2019	ALUMINUM	< 50	UG/L
RCMHP-2	11/21/2022	ALUMINUM	< 50	UG/L
RCMHP-2	4/29/2019	ANTIMONY, TOTAL	< 6	UG/L
RCMHP-2	11/21/2022	ANTIMONY, TOTAL	< 6	UG/L
RCMHP-2	4/29/2019	ARSENIC	< 2	UG/L
RCMHP-2	11/21/2022	ARSENIC	< 2	UG/L
RCMHP-2	4/29/2019	BARIUM	< 100	UG/L
RCMHP-2	11/21/2022	BARIUM	< 100	UG/L
RCMHP-2	4/29/2019	BERYLLIUM, TOTAL	< 1	UG/L
RCMHP-2	11/21/2022	BERYLLIUM, TOTAL	< 1	UG/L
RCMHP-2	4/29/2019	CADMIUM	< 1	UG/L
RCMHP-2	11/21/2022	CADMIUM	< 1	UG/L
RCMHP-2	4/29/2019	CALCIUM	43	MG/L
RCMHP-2	11/21/2022	CALCIUM	43	MG/L
RCMHP-2	4/29/2019	CHLORIDE	25	MG/L
RCMHP-2	11/21/2022	CHLORIDE	26	MG/L
RCMHP-2	4/29/2019	CHROMIUM		UG/L
RCMHP-2	11/21/2022	CHROMIUM	10	UG/L
RCMHP-2	1/4/2019	CHROMIUM, HEX	12	UG/L
RCMHP-2	4/29/2019	COPPER, FREE	< 50	UG/L
RCMHP-2	11/21/2022	COPPER, FREE	< 50	UG/L
RCMHP-2	4/29/2019	FLUORIDE	0.63	MG/L
RCMHP-2	11/21/2022	FLUORIDE	0.59	MG/L
RCMHP-2	4/29/2019	HARDNESS, TOTAL (AS CaCO3)	170	MG/L
RCMHP-2	11/21/2022	HARDNESS, TOTAL (AS CaCO3)	170	MG/L
RCMHP-2	4/29/2019	IRON	< 100	UG/L
RCMHP-2	11/21/2022	IRON	< 100	UG/L
RCMHP-2	4/29/2019	LEAD	< 5	UG/L
RCMHP-2	11/21/2022	LEAD	< 5	UG/L
RCMHP-2	4/29/2019	MAGNESIUM	15	MG/L
RCMHP-2	11/21/2022	MAGNESIUM	16	MG/L
RCMHP-2	4/29/2019	MANGANESE	< 20	UG/L
RCMHP-2	11/21/2022	MANGANESE	< 20	UG/L
RCMHP-2	4/29/2019	MERCURY	< 1	UG/L
RCMHP-2	11/21/2022	MERCURY	< 1	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
RCMHP-2	4/29/2019	NICKEL	< 10	UG/L
RCMHP-2	11/21/2022	NICKEL	< 10	UG/L
RCMHP-2	1/4/2019	NITRATE	5.1	MG/L
RCMHP-2	7/1/2019	NITRATE	3.1	MG/L
RCMHP-2	11/25/2019	NITRATE	5.7	MG/L
RCMHP-2	1/13/2020	NITRATE	6.1	MG/L
RCMHP-2	4/20/2020	NITRATE	4.8	MG/L
RCMHP-2	7/7/2020	NITRATE	6.4	MG/L
RCMHP-2	10/5/2020	NITRATE	6.2	MG/L
RCMHP-2	1/18/2021	NITRATE	6.1	MG/L
RCMHP-2	5/10/2021	NITRATE	5.9	MG/L
RCMHP-2	8/2/2021	NITRATE	5.4	MG/L
RCMHP-2	10/18/2021	NITRATE	5.6	MG/L
RCMHP-2	2/7/2022	NITRATE	4.5	MG/L
RCMHP-2	4/22/2022	NITRATE	3.8	MG/L
RCMHP-2	7/18/2022	NITRATE	3.5	MG/L
RCMHP-2	11/21/2022	NITRATE	4.6	MG/L
RCMHP-2	1/9/2023	NITRATE	4.4	MG/L
RCMHP-2	4/10/2023	NITRATE	4.7	MG/L
RCMHP-2	7/3/2023	NITRATE	4.5	MG/L
RCMHP-2	10/9/2023	NITRATE	4.7	MG/L
RCMHP-2	4/29/2019	NITRITE	< 0.4	MG/L
RCMHP-2	2/7/2022	NITRITE	< 0.4	MG/L
RCMHP-2	11/21/2022	NITRITE	< 0.4	MG/L
RCMHP-2	4/29/2019	PERCHLORATE	< 2	UG/L
RCMHP-2	11/21/2022	PERCHLORATE	< 2	UG/L
RCMHP-2	4/29/2019	PH	8.1	PH
RCMHP-2	11/21/2022	PH	8.0	PH
RCMHP-2	11/21/2022	POTASSIUM	1.6	MG/L
RCMHP-2	4/29/2019	SELENIUM	< 5	UG/L
RCMHP-2	11/21/2022	SELENIUM	< 5	UG/L
RCMHP-2	4/29/2019	SILVER	< 10	UG/L
RCMHP-2	11/21/2022	SILVER	< 10	UG/L
RCMHP-2	4/29/2019	SODIUM	31	MG/L
RCMHP-2	11/21/2022	SODIUM	30	MG/L
RCMHP-2	4/29/2019	SULFATE	12	MG/L
RCMHP-2	11/21/2022	SULFATE	13	MG/L
RCMHP-2	4/29/2019	TDS	270	MG/L
RCMHP-2	11/21/2022	TDS	250	MG/L
RCMHP-2	11/21/2022	TETRACHLOROETHYLENE	< 0.5	UG/L
RCMHP-2	4/29/2019	THALLIUM, TOTAL	< 1	UG/L
RCMHP-2	11/21/2022	THALLIUM, TOTAL	< 1	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
RCMHP-2	11/21/2022	TRICHLOROETHYLENE	< 0.5	UG/L
RCMHP-2	4/29/2019	ZINC	< 50	UG/L
RCMHP-2	11/21/2022	ZINC	< 50	UG/L
SMHOA-1	11/21/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
SMHOA-1	11/8/2021	ALKALINITY, BICARBONATE	200	MG/L
SMHOA-1	11/8/2021	ALKALINITY, TOTAL	200	MG/L
SMHOA-1	11/8/2021	ALUMINUM	< 50	UG/L
SMHOA-1	11/8/2021	ANTIMONY, TOTAL	< 6	UG/L
SMHOA-1	11/8/2021	ARSENIC	< 2	UG/L
SMHOA-1	11/21/2022	ASBESTOS	< 0.2	MFL
SMHOA-1	11/8/2021	BARIUM	42	UG/L
SMHOA-1	11/8/2021	BERYLLIUM, TOTAL	< 1	UG/L
SMHOA-1	11/8/2021	CADMIUM	< 1	UG/L
SMHOA-1	11/8/2021	CALCIUM	47	MG/L
SMHOA-1	11/8/2021	CHLORIDE	28	MG/L
SMHOA-1	11/8/2021	CHROMIUM	6	UG/L
SMHOA-1	11/8/2021	COPPER, FREE	< 50	UG/L
SMHOA-1	11/8/2021	FLUORIDE	0.47	MG/L
SMHOA-1	11/8/2021	HARDNESS, TOTAL (AS CaCO3)	190	MG/L
SMHOA-1	11/8/2021	IRON	< 100	UG/L
SMHOA-1	11/8/2021	LEAD	< 5	UG/L
SMHOA-1	11/8/2021	MAGNESIUM	17	MG/L
SMHOA-1	11/8/2021	MANGANESE	< 20	UG/L
SMHOA-1	11/8/2021	MERCURY	< 1	UG/L
SMHOA-1	12/20/2021	NICKEL	< 10	UG/L
SMHOA-1	1/2/2019	NITRATE	5.0	MG/L
SMHOA-1	4/29/2019	NITRATE	5.1	MG/L
SMHOA-1	7/1/2019	NITRATE	4.6	MG/L
SMHOA-1	10/7/2019	NITRATE	4.6	MG/L
SMHOA-1	1/13/2020	NITRATE	4.7	MG/L
SMHOA-1	4/20/2020	NITRATE	5.1	MG/L
SMHOA-1	7/6/2020	NITRATE	5.2	MG/L
SMHOA-1	10/5/2020	NITRATE	4.9	MG/L
SMHOA-1	1/12/2021	NITRATE	6.5	MG/L
SMHOA-1	5/10/2021	NITRATE	4.8	MG/L
SMHOA-1	8/2/2021	NITRATE	4.8	MG/L
SMHOA-1	10/18/2021	NITRATE	5.0	MG/L
SMHOA-1	11/8/2021	NITRATE	5.0	MG/L
SMHOA-1	1/3/2022	NITRATE	6.9	MG/L
SMHOA-1	10/24/2022	NITRATE	2.0	MG/L
SMHOA-1	11/21/2022	NITRATE	3.3	MG/L
SMHOA-1	1/9/2023	NITRATE	4.7	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
SMHOA-1	4/10/2023	NITRATE	5.3	MG/L
SMHOA-1	7/3/2023	NITRATE	1.9	MG/L
SMHOA-1	10/9/2023	NITRATE	2.7	MG/L
SMHOA-1	4/29/2019	NITRITE	< 0.4	MG/L
SMHOA-1	11/21/2022	NITRITE	< 0.4	MG/L
SMHOA-1	12/20/2021	PERCHLORATE	< 2	UG/L
SMHOA-1	11/8/2021	PH	8.0	PH
SMHOA-1	11/21/2022	PH	7.9	PH
SMHOA-1	12/20/2021	SELENIUM	< 5	UG/L
SMHOA-1	11/8/2021	SILVER	< 10	UG/L
SMHOA-1	11/8/2021	SODIUM	44	MG/L
SMHOA-1	11/8/2021	SULFATE	21	MG/L
SMHOA-1	11/8/2021	TDS	330	MG/L
SMHOA-1	4/29/2019	TETRACHLOROETHYLENE	< 0.5	UG/L
SMHOA-1	11/21/2022	TETRACHLOROETHYLENE	< 0.5	UG/L
SMHOA-1	12/20/2021	THALLIUM, TOTAL	< 1	UG/L
SMHOA-1	4/29/2019	TRICHLOROETHYLENE	< 0.5	UG/L
SMHOA-1	11/21/2022	TRICHLOROETHYLENE	< 0.5	UG/L
SMHOA-1	11/8/2021	ZINC	< 50	UG/L
SMHOA-2	11/21/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
SMHOA-2	11/8/2021	ALKALINITY, BICARBONATE	200	MG/L
SMHOA-2	11/8/2021	ALKALINITY, TOTAL	200	MG/L
SMHOA-2	11/8/2021	ALUMINUM	< 50	UG/L
SMHOA-2	11/8/2021	ANTIMONY, TOTAL	< 6	UG/L
SMHOA-2	11/8/2021	ARSENIC	< 2	UG/L
SMHOA-2	11/21/2022	ASBESTOS	< 0.2	MFL
SMHOA-2	11/8/2021	BARIUM	44	UG/L
SMHOA-2	11/8/2021	BERYLLIUM, TOTAL	< 1	UG/L
SMHOA-2	11/8/2021	CADMIUM	< 1	UG/L
SMHOA-2	11/8/2021	CALCIUM	50	MG/L
SMHOA-2	11/8/2021	CHLORIDE	40	MG/L
SMHOA-2	11/8/2021	CHROMIUM	10	UG/L
SMHOA-2	11/8/2021	COPPER, FREE	< 50	UG/L
SMHOA-2	11/8/2021	FLUORIDE	0.57	MG/L
SMHOA-2	11/8/2021	HARDNESS, TOTAL (AS CaCO3)	200	MG/L
SMHOA-2	11/8/2021	IRON	< 100	UG/L
SMHOA-2	11/8/2021	LEAD	< 5	UG/L
SMHOA-2	11/8/2021	MAGNESIUM	19	MG/L
SMHOA-2	11/8/2021	MANGANESE	< 20	UG/L
SMHOA-2	11/8/2021	MERCURY	< 1	UG/L
SMHOA-2	12/20/2021	NICKEL	< 10	UG/L
SMHOA-2	1/2/2019	NITRATE	4.6	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
SMHOA-2	4/29/2019	NITRATE	5.9	MG/L
SMHOA-2	7/1/2019	NITRATE	5.4	MG/L
SMHOA-2	10/7/2019	NITRATE	5.1	MG/L
SMHOA-2	1/13/2020	NITRATE	5.5	MG/L
SMHOA-2	4/20/2020	NITRATE	5.5	MG/L
SMHOA-2	7/6/2020	NITRATE	5.3	MG/L
SMHOA-2	10/5/2020	NITRATE	5.6	MG/L
SMHOA-2	1/12/2021	NITRATE	5.4	MG/L
SMHOA-2	5/10/2021	NITRATE	5.6	MG/L
SMHOA-2	8/2/2021	NITRATE	5.1	MG/L
SMHOA-2	10/18/2021	NITRATE	5.6	MG/L
SMHOA-2	11/8/2021	NITRATE	5.8	MG/L
SMHOA-2	1/3/2022	NITRATE	5.9	MG/L
SMHOA-2	10/24/2022	NITRATE	5.0	MG/L
SMHOA-2	11/21/2022	NITRATE	5.5	MG/L
SMHOA-2	1/9/2023	NITRATE	5.7	MG/L
SMHOA-2	4/10/2023	NITRATE	5.8	MG/L
SMHOA-2	7/3/2023	NITRATE	5.6	MG/L
SMHOA-2	10/9/2023	NITRATE	5.9	MG/L
SMHOA-2	4/29/2019	NITRITE	< 0.4	MG/L
SMHOA-2	11/21/2022	NITRITE	< 0.4	MG/L
SMHOA-2	12/20/2021	PERCHLORATE	< 2	UG/L
SMHOA-2	11/8/2021	PH	7.9	PH
SMHOA-2	11/21/2022	PH	8.0	PH
SMHOA-2	12/20/2021	SELENIUM	< 5	UG/L
SMHOA-2	11/8/2021	SILVER	< 10	UG/L
SMHOA-2	11/8/2021	SODIUM	41	MG/L
SMHOA-2	11/8/2021	SULFATE	18	MG/L
SMHOA-2	11/8/2021	TDS	340	MG/L
SMHOA-2	4/29/2019	TETRACHLOROETHYLENE	< 0.5	UG/L
SMHOA-2	11/21/2022	TETRACHLOROETHYLENE	< 0.5	UG/L
SMHOA-2	12/20/2021	THALLIUM, TOTAL	< 1	UG/L
SMHOA-2	4/29/2019	TRICHLOROETHYLENE	< 0.5	UG/L
SMHOA-2	11/21/2022	TRICHLOROETHYLENE	< 0.5	UG/L
SMHOA-2	11/8/2021	ZINC	< 50	UG/L
SMWC-4	10/26/2021	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
SMWC-4	4/15/2019	ALKALINITY, BICARBONATE	110	MG/L
SMWC-4	4/19/2022	ALKALINITY, BICARBONATE	98	MG/L
SMWC-4	4/15/2019	ALKALINITY, TOTAL	110	MG/L
SMWC-4	4/19/2022	ALKALINITY, TOTAL	100	MG/L
SMWC-4	4/15/2019	ALUMINUM	< 50	UG/L
SMWC-4	4/19/2022	ALUMINUM	< 50	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
SMWC-4	4/15/2019	ANTIMONY, TOTAL	< 6	UG/L
SMWC-4	4/19/2022	ANTIMONY, TOTAL	< 6	UG/L
SMWC-4	4/15/2019	ARSENIC	3.8	UG/L
SMWC-4	4/19/2022	ARSENIC	4.4	UG/L
SMWC-4	4/15/2019	BARIUM	< 100	UG/L
SMWC-4	4/19/2022	BARIUM	< 100	UG/L
SMWC-4	4/15/2019	BERYLLIUM, TOTAL	< 1	UG/L
SMWC-4	4/19/2022	BERYLLIUM, TOTAL	< 1	UG/L
SMWC-4	4/15/2019	BORON, TOTAL		UG/L
SMWC-4	4/19/2022	BORON, TOTAL		UG/L
SMWC-4	4/15/2019	CADMIUM	< 1	UG/L
SMWC-4	4/19/2022	CADMIUM	< 1	UG/L
SMWC-4	4/15/2019	CALCIUM	7	MG/L
SMWC-4	4/19/2022	CALCIUM	5	MG/L
SMWC-4	4/15/2019	CHLORIDE	18	MG/L
SMWC-4	4/19/2022	CHLORIDE	16	MG/L
SMWC-4	4/15/2019	CHROMIUM		UG/L
SMWC-4	4/19/2022	CHROMIUM		UG/L
SMWC-4	4/15/2019	CHROMIUM, HEX	2.20	UG/L
SMWC-4	4/19/2022	CHROMIUM, HEX	1.90	UG/L
SMWC-4	4/15/2019	COPPER, FREE	< 50	UG/L
SMWC-4	4/19/2022	COPPER, FREE	< 50	UG/L
SMWC-4	4/15/2019	FLUORIDE	0.40	MG/L
SMWC-4	4/19/2022	FLUORIDE	0.39	MG/L
SMWC-4	4/15/2019	HARDNESS, TOTAL (AS CaCO3)	22	MG/L
SMWC-4	4/19/2022	HARDNESS, TOTAL (AS CaCO3)	13	MG/L
SMWC-4	4/15/2019	IRON	< 100	UG/L
SMWC-4	4/19/2022	IRON	< 100	UG/L
SMWC-4	4/15/2019	LEAD	< 5	UG/L
SMWC-4	4/19/2022	LEAD	< 5	UG/L
SMWC-4	4/15/2019	MAGNESIUM	1.1	MG/L
SMWC-4	4/19/2022	MAGNESIUM	0.0	MG/L
SMWC-4	4/15/2019	MANGANESE	< 20	UG/L
SMWC-4	4/19/2022	MANGANESE	< 20	UG/L
SMWC-4	4/15/2019	MERCURY	< 1	UG/L
SMWC-4	4/19/2022	MERCURY	< 1	UG/L
SMWC-4	4/15/2019	NICKEL	< 10	UG/L
SMWC-4	4/19/2022	NICKEL	< 10	UG/L
SMWC-4	4/15/2019	NITRATE	3.8	MG/L
SMWC-4	6/4/2019	NITRATE	4.4	MG/L
SMWC-4	6/3/2020	NITRATE	3.1	MG/L
SMWC-4	6/14/2021	NITRATE	3.0	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
SMWC-4	4/19/2022	NITRATE	3.1	MG/L
SMWC-4	6/6/2022	NITRATE	3.1	MG/L
SMWC-4	6/9/2023	NITRATE	2.8	MG/L
SMWC-4	4/15/2019	NITRATE-NITRITE	3.8	MG/L
SMWC-4	4/19/2022	NITRATE-NITRITE	3.1	MG/L
SMWC-4	4/15/2019	NITRITE	< 0.4	MG/L
SMWC-4	4/19/2022	NITRITE	< 0.4	MG/L
SMWC-4	4/15/2019	PERCHLORATE	< 2	UG/L
SMWC-4	4/19/2022	PERCHLORATE	< 2	UG/L
SMWC-4	4/15/2019	PH	9.0	PH
SMWC-4	4/19/2022	PH	8.8	PH
SMWC-4	4/15/2019	POTASSIUM	0.0	MG/L
SMWC-4	4/19/2022	POTASSIUM	0.0	MG/L
SMWC-4	4/15/2019	SELENIUM	< 5	UG/L
SMWC-4	4/19/2022	SELENIUM	< 5	UG/L
SMWC-4	4/15/2019	SILVER	< 10	UG/L
SMWC-4	4/19/2022	SILVER	< 10	UG/L
SMWC-4	4/15/2019	SODIUM	62	MG/L
SMWC-4	4/19/2022	SODIUM	63	MG/L
SMWC-4	4/15/2019	SULFATE	17	MG/L
SMWC-4	4/19/2022	SULFATE	15	MG/L
SMWC-4	4/15/2019	TDS	180	MG/L
SMWC-4	4/19/2022	TDS	220	MG/L
SMWC-4	8/12/2019	TETRACHLOROETHYLENE	< 0.5	UG/L
SMWC-4	5/26/2023	TETRACHLOROETHYLENE	< 0.5	UG/L
SMWC-4	4/15/2019	THALLIUM, TOTAL	< 1	UG/L
SMWC-4	4/19/2022	THALLIUM, TOTAL	< 1	UG/L
SMWC-4	8/12/2019	TRICHLOROETHYLENE	< 0.5	UG/L
SMWC-4	5/26/2023	TRICHLOROETHYLENE	< 0.5	UG/L
SMWC-4	4/15/2019	VANADIUM, TOTAL	72	UG/L
SMWC-4	4/19/2022	VANADIUM, TOTAL	93	UG/L
SMWC-4	4/15/2019	ZINC	< 50	UG/L
SMWC-4	4/19/2022	ZINC	< 50	UG/L
Tukwet A	8/6/2020	ALKALINITY, BICARBONATE	110	MG/L
Tukwet A	8/15/2023	ALKALINITY, BICARBONATE	100	MG/L
Tukwet A	8/6/2020	ALKALINITY, TOTAL	120	MG/L
Tukwet A	8/15/2023	ALKALINITY, TOTAL	140	MG/L
Tukwet A	8/6/2020	ALUMINUM	< 50	UG/L
Tukwet A	8/15/2023	ALUMINUM	< 50	UG/L
Tukwet A	8/6/2020	ANTIMONY, TOTAL	< 6	UG/L
Tukwet A	8/15/2023	ANTIMONY, TOTAL	< 6	UG/L
Tukwet A	8/6/2020	ARSENIC	7	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Tukwet A	8/15/2023	ARSENIC	6	UG/L
Tukwet A	8/15/2023	ARSENIC	6	UG/L
Tukwet A	8/6/2020	BARIUM	< 100	UG/L
Tukwet A	8/15/2023	BARIUM	< 100	UG/L
Tukwet A	8/6/2020	BERYLLIUM, TOTAL	< 1	UG/L
Tukwet A	8/15/2023	BERYLLIUM, TOTAL	< 1	UG/L
Tukwet A	8/6/2020	CADMIUM	< 1	UG/L
Tukwet A	8/15/2023	CADMIUM	< 1	UG/L
Tukwet A	8/6/2020	CALCIUM	8	MG/L
Tukwet A	8/15/2023	CALCIUM	8	MG/L
Tukwet A	8/6/2020	CHLORIDE	17	MG/L
Tukwet A	8/15/2023	CHLORIDE	17	MG/L
Tukwet A	8/6/2020	CHROMIUM	10	UG/L
Tukwet A	8/15/2023	CHROMIUM	13	UG/L
Tukwet A	8/15/2023	COMBINED URANIUM		PCI/L
Tukwet A	8/6/2020	COPPER, FREE	< 50	UG/L
Tukwet A	8/15/2023	COPPER, FREE	< 50	UG/L
Tukwet A	8/6/2020	FLUORIDE	1	MG/L
Tukwet A	8/15/2023	FLUORIDE	1	MG/L
Tukwet A	8/6/2020	HARDNESS, TOTAL (AS CaCO3)	29	MG/L
Tukwet A	8/6/2020	IRON	< 100	UG/L
Tukwet A	8/15/2023	IRON	< 100	UG/L
Tukwet A	8/6/2020	LEAD	< 5	UG/L
Tukwet A	8/15/2023	LEAD	< 5	UG/L
Tukwet A	8/6/2020	MAGNESIUM	2	MG/L
Tukwet A	8/15/2023	MAGNESIUM	3	MG/L
Tukwet A	8/6/2020	MANGANESE	< 20	UG/L
Tukwet A	8/15/2023	MANGANESE	< 20	UG/L
Tukwet A	8/6/2020	MERCURY	< 1	UG/L
Tukwet A	8/15/2023	MERCURY	< 1	UG/L
Tukwet A	8/6/2020	NICKEL	< 10	UG/L
Tukwet A	8/15/2023	NICKEL	< 10	UG/L
Tukwet A	9/26/2019	NITRATE	1	MG/L
Tukwet A	8/6/2020	NITRATE	1	MG/L
Tukwet A	8/19/2021	NITRATE	2	MG/L
Tukwet A	9/8/2022	NITRATE	2	MG/L
Tukwet A	8/15/2023	NITRATE	2	MG/L
Tukwet A	8/6/2020	NITRITE	< 0.4	MG/L
Tukwet A	8/15/2023	NITRITE	< 0.4	MG/L
Tukwet A	8/6/2020	PERCHLORATE	< 2	UG/L
Tukwet A	8/15/2023	PERCHLORATE	2	UG/L
Tukwet A	8/6/2020	PH	9	PH

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Tukwet A	8/15/2023	PH	9	PH
Tukwet A	8/6/2020	POTASSIUM	< 1	MG/L
Tukwet A	8/15/2023	POTASSIUM	1	MG/L
Tukwet A	8/6/2020	SELENIUM	< 5	UG/L
Tukwet A	8/15/2023	SELENIUM	< 5	UG/L
Tukwet A	8/6/2020	SILVER	< 10	UG/L
Tukwet A	8/15/2023	SILVER	< 10	UG/L
Tukwet A	8/6/2020	SODIUM	56	MG/L
Tukwet A	8/15/2023	SODIUM	59	MG/L
Tukwet A	8/6/2020	SULFATE	5	MG/L
Tukwet A	8/15/2023	SULFATE	6	MG/L
Tukwet A	8/6/2020	TDS	160	MG/L
Tukwet A	8/15/2023	TDS	160	MG/L
Tukwet A	8/6/2020	TETRACHLOROETHYLENE	< 0.5	UG/L
Tukwet A	8/15/2023	TETRACHLOROETHYLENE	< 0.5	UG/L
Tukwet A	8/15/2023	THALLIUM, TOTAL	< 1	UG/L
Tukwet A	8/6/2020	TRICHLOROETHYLENE	< 0.5	UG/L
Tukwet A	8/15/2023	TRICHLOROETHYLENE	< 0.5	UG/L
Tukwet A	8/6/2020	ZINC	< 50	UG/L
Tukwet A	8/15/2023	ZINC	< 50	UG/L
Tukwet D	8/11/2020	ALKALINITY, BICARBONATE	150	MG/L
Tukwet D	8/15/2023	ALKALINITY, BICARBONATE	170	MG/L
Tukwet D	8/11/2020	ALKALINITY, TOTAL	150	MG/L
Tukwet D	8/15/2023	ALKALINITY, TOTAL	170	MG/L
Tukwet D	8/11/2020	ALUMINUM	< 50	UG/L
Tukwet D	8/15/2023	ALUMINUM	< 50	UG/L
Tukwet D	8/11/2020	ANTIMONY, TOTAL	< 6	UG/L
Tukwet D	8/15/2023	ANTIMONY, TOTAL	< 6	UG/L
Tukwet D	8/11/2020	ARSENIC	< 2	UG/L
Tukwet D	8/15/2023	ARSENIC	< 2	UG/L
Tukwet D	8/15/2023	ARSENIC	< 2	UG/L
Tukwet D	8/11/2020	BARIUM	< 100	UG/L
Tukwet D	8/15/2023	BARIUM	< 100	UG/L
Tukwet D	8/11/2020	BERYLLIUM, TOTAL	< 1	UG/L
Tukwet D	8/15/2023	BERYLLIUM, TOTAL	< 1	UG/L
Tukwet D	8/11/2020	CADMIUM	< 1	UG/L
Tukwet D	8/15/2023	CADMIUM	< 1	UG/L
Tukwet D	8/11/2020	CALCIUM	30	MG/L
Tukwet D	8/15/2023	CALCIUM	29	MG/L
Tukwet D	8/11/2020	CHLORIDE	11	MG/L
Tukwet D	8/15/2023	CHLORIDE	11	MG/L
Tukwet D	8/11/2020	CHROMIUM	< 10	UG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Tukwet D	8/15/2023	CHROMIUM	11	UG/L
Tukwet D	8/15/2023	COMBINED URANIUM	< 1	PCI/L
Tukwet D	8/11/2020	COPPER, FREE	< 50	UG/L
Tukwet D	8/15/2023	COPPER, FREE	< 50	UG/L
Tukwet D	8/11/2020	FLUORIDE	1	MG/L
Tukwet D	8/15/2023	FLUORIDE	1	MG/L
Tukwet D	8/11/2020	HARDNESS, TOTAL (AS CaCO3)	130	MG/L
Tukwet D	8/15/2023	HARDNESS, TOTAL (AS CaCO3)	130	MG/L
Tukwet D	8/11/2020	IRON	< 100	UG/L
Tukwet D	8/15/2023	IRON	< 100	UG/L
Tukwet D	8/11/2020	LEAD	< 5	UG/L
Tukwet D	8/15/2023	LEAD	< 5	UG/L
Tukwet D	8/11/2020	MAGNESIUM	13	MG/L
Tukwet D	8/15/2023	MAGNESIUM	14	MG/L
Tukwet D	8/11/2020	MANGANESE	< 20	UG/L
Tukwet D	8/15/2023	MANGANESE	< 20	UG/L
Tukwet D	8/11/2020	MERCURY	< 1	UG/L
Tukwet D	8/15/2023	MERCURY	< 1	UG/L
Tukwet D	8/11/2020	NICKEL	< 10	UG/L
Tukwet D	8/15/2023	NICKEL	< 10	UG/L
Tukwet D	8/13/2019	NITRATE	2	MG/L
Tukwet D	9/26/2019	NITRATE	2	MG/L
Tukwet D	8/11/2020	NITRATE	2	MG/L
Tukwet D	8/19/2021	NITRATE	2	MG/L
Tukwet D	8/2/2022	NITRATE	2	MG/L
Tukwet D	8/15/2023	NITRATE	2	MG/L
Tukwet D	8/11/2020	NITRITE	< 0.4	MG/L
Tukwet D	8/15/2023	NITRITE	< 0.4	MG/L
Tukwet D	8/11/2020	PERCHLORATE	< 2	UG/L
Tukwet D	8/15/2023	PERCHLORATE	< 2	UG/L
Tukwet D	8/13/2019	PH	8	PH
Tukwet D	8/11/2020	PH	8	PH
Tukwet D	8/15/2023	PH	8	PH
Tukwet D	8/11/2020	POTASSIUM	1	MG/L
Tukwet D	8/15/2023	POTASSIUM	2	MG/L
Tukwet D	8/11/2020	SELENIUM	< 5	UG/L
Tukwet D	8/15/2023	SELENIUM	< 5	UG/L
Tukwet D	8/11/2020	SILVER	< 10	UG/L
Tukwet D	8/15/2023	SILVER	< 10	UG/L
Tukwet D	8/11/2020	SODIUM	23	MG/L
Tukwet D	8/15/2023	SODIUM	25	MG/L
Tukwet D	8/11/2020	SULFATE	9	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Tukwet D	8/15/2023	SULFATE	9	MG/L
Tukwet D	8/11/2020	TDS	200	MG/L
Tukwet D	8/15/2023	TDS	200	MG/L
Tukwet D	8/11/2020	TETRACHLOROETHYLENE	< 0.5	UG/L
Tukwet D	8/15/2023	TETRACHLOROETHYLENE	< 0.5	UG/L
Tukwet D	8/15/2023	THALLIUM, TOTAL	< 1	UG/L
Tukwet D	8/11/2020	TRICHLOROETHYLENE	< 0.5	UG/L
Tukwet D	8/15/2023	TRICHLOROETHYLENE	< 0.5	UG/L
Tukwet D	8/11/2020	ZINC	< 50	UG/L
Tukwet D	8/15/2023	ZINC	< 50	UG/L
YVWD-48	7/17/2019	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
YVWD-48	8/18/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
YVWD-48	11/9/2022	1,2-DIBROMO-3-CHLOROPROPANE	< 0.01	UG/L
YVWD-48	7/14/2020	ALKALINITY, BICARBONATE	170	MG/L
YVWD-48	7/14/2020	ALKALINITY, TOTAL	140	MG/L
YVWD-48	7/14/2020	ALUMINUM	< 50	UG/L
YVWD-48	7/14/2020	ANTIMONY, TOTAL	< 6	UG/L
YVWD-48	7/14/2020	ARSENIC	< 2	UG/L
YVWD-48	7/14/2020	BARIUM	< 100	UG/L
YVWD-48	7/14/2020	BERYLLIUM, TOTAL	< 1	UG/L
YVWD-48	7/14/2020	BORON, TOTAL		UG/L
YVWD-48	7/14/2020	CADMIUM	< 1	UG/L
YVWD-48	7/14/2020	CALCIUM	32	MG/L
YVWD-48	7/14/2020	CHLORIDE	11	MG/L
YVWD-48	7/14/2020	CHROMIUM		UG/L
YVWD-48	7/14/2020	CHROMIUM, HEX	7.50	UG/L
YVWD-48	7/14/2020	COPPER, FREE	< 50	UG/L
YVWD-48	7/14/2020	FLUORIDE	0.39	MG/L
YVWD-48	7/14/2020	HARDNESS, TOTAL (AS CaCO3)	100	MG/L
YVWD-48	7/14/2020	IRON	< 100	UG/L
YVWD-48	7/14/2020	LEAD	< 5	UG/L
YVWD-48	7/14/2020	MAGNESIUM	4.8	MG/L
YVWD-48	7/14/2020	MANGANESE	< 20	UG/L
YVWD-48	7/14/2020	MERCURY	< 1	UG/L
YVWD-48	7/14/2020	NICKEL	< 10	UG/L
YVWD-48	7/17/2019	NITRATE	1.8	MG/L
YVWD-48	7/14/2020	NITRATE	2.4	MG/L
YVWD-48	2/18/2021	NITRATE	3.1	MG/L
YVWD-48	8/18/2022	NITRATE	2.1	MG/L
YVWD-48	8/8/2023	NITRATE	1.6	MG/L
YVWD-48	8/15/2023	NITRATE	2.2	MG/L
YVWD-48	9/19/2023	NITRATE	2.2	MG/L

GAMA Water Quality for the 2019-2023 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
YVWD-48	10/3/2023	NITRATE	2.2	MG/L
YVWD-48	11/14/2023	NITRATE	2.2	MG/L
YVWD-48	12/19/2023	NITRATE	2.9	MG/L
YVWD-48	1/17/2024	NITRATE	2.2	MG/L
YVWD-48	7/14/2020	NITRATE-NITRITE	2.4	MG/L
YVWD-48	7/14/2020	NITRITE	< 0.4	MG/L
YVWD-48	7/14/2020	PERCHLORATE	< 2	UG/L
YVWD-48	7/14/2020	PH	8.1	PH
YVWD-48	7/14/2020	POTASSIUM	2.0	MG/L
YVWD-48	7/14/2020	SELENIUM	< 5	UG/L
YVWD-48	7/14/2020	SILVER	< 10	UG/L
YVWD-48	7/14/2020	SODIUM	36	MG/L
YVWD-48	7/14/2020	SULFATE	13	MG/L
YVWD-48	7/14/2020	TDS	200	MG/L
YVWD-48	7/17/2019	TETRACHLOROETHYLENE	< 0.5	UG/L
YVWD-48	8/17/2022	TETRACHLOROETHYLENE	< 0.5	UG/L
YVWD-48	7/14/2020	THALLIUM, TOTAL	< 1	UG/L
YVWD-48	7/17/2019	TRICHLOROETHYLENE	< 0.5	UG/L
YVWD-48	8/17/2022	TRICHLOROETHYLENE	< 0.5	UG/L
YVWD-48	7/14/2020	VANADIUM, TOTAL	22	UG/L
YVWD-48	7/14/2020	ZINC	< 50	UG/L

Appendix H

Comments on 2023 Draft Consolidated Annual and Engineering Report and Response to Comments

**BEAUMONT BASIN WATERMASTER
MEMORANDUM NO. 24-17**

Date: June 5, 2024

From: Hannibal Blandon, ALDA Inc.

Subject: 2023 Consolidated Annual Report and Engineering Report -
Presentation of Comments Received on Draft Report

Recommendation: Approve the 2023 Annual Report after Comments Received on the
Draft Report are Presented and Discussed

At the April 17, 2024 regular meeting, a draft of the 2023 Consolidated Annual Report and Engineering Report was presented. A formal presentation documenting the findings and recommendations was made. Members of the Watermaster Committee had the opportunity to ask questions during the presentation and requested that comments be submitted in writing and presented at the June 2024 regular meeting.

Written comments on the report were received from BCVWD and the City of Banning. All other agencies either indicated that they did not have any comments or did not respond to our request for comments. In addition, legal counsel indicated that they did not have any comments.

During the meeting, as part of Discussion Item A, Certification of Groundwater Production and Imported Water Use during Water Year 2023, the issue of converting the current and subsequent Consolidated Annual and Engineering Report from a Calendar Year basis to a Water Year basis was briefly discussed. As a result, it was recommended that a new section in the annual report be introduced to address this issue.

A new Section 3.10 and our response to comments received are presented below.

3-10 Certification of Groundwater Production and Imported Water Use during Water Year 2023

The State of California Department of Water Resources requires the documentation of the use of water in all groundwater basins on a Water Year basis. Water Year 2023 begins on October 1, 2022 and ends on September 30, 2023. Groundwater production for the first three months of Water Year 2023 (October through December 2022) is documented in Table 3-1 D, Appropriator Producer – Summary of Production for Calendar Year 2022, for Appropriators and Table 3-2 D, Overlying Producer – Summary of Production for Calendar Year 2022, for Overlying users. Total production for the first three months of Water Year 2023 was as follows:

- ✓ Appropriators: 3,733.40 ac-ft
- ✓ Overliers: 346.60 ac-ft

Similarly, Appropriator production during the last nine months of Water Year 2023 (January through September 2023) is documented in Table 3-1 E, Appropriator Producer – Summary of

Production for Calendar Year 2023, for Appropriators and Table 3-2-E, Overlying Producer – Summary of Production for Calendar Year 2023, for Overlying users. Total production for this nine-month period was as follows:

- ✓ Appropriators: 9,852.20 ac-ft
- ✓ Overliers: 1,100.70 ac-ft

Total groundwater production for Water Year 2023 from the Beaumont Basin was 15,033 ac-ft.

The use of imported water is documented on an annual basis in Table 3-4, Annual Supplemental Recharge to the Beaumont Basin – Calendar Years 2003-2023. Imported water deliveries during Water Year 2023 amounted to 15,905 ac-ft. Monthly deliveries to individual agencies for this water year are presented in Table 3-10.

Change in Storage during Water Year 2023 was estimated at 3,643 ac-ft. Figure 3-17 displays the change in elevation between October 2022 and October 2023.

Response to Comments Received

Comments by Mr. Swanson, BCVWD

Mr. Swanson's main comment relates to the absence of documentation of water services provided by YVWD to specific parcels in the basin as a result of the Oak Valley Partners transfers. Mr. Zoba indicated, during the presentation of the annual report at the April regular meeting, that YVWD's water rights resulting from the transfer of overlying water rights from OVP were equal to 2022's deliveries of 478.25 ac-ft. While Counsel Montoya clarified that the water has been transferred with finality, Member Jagers suggested adding further discussion of this issue to a workshop agenda. Mr. Swanson commented that the delivery numbers are on a year-by-year basis and the expectation is that 2023 consumptions were lower by approximately 20 percent. In addition, he commented that the transfers to parcels should be provided for 2023, not just rolled over from 2022.

This issue impacts a number of figures and tables in the report including Figures 3-8 through 3-11 and tables 3-7 through 3-9. A positive resolution to this issue may be attained at the June meeting or at a later meeting and may impact the ability of the Watermaster Committee to approve the Draft of the 2023 Consolidated Annual and Engineering Report.

Another comment by Mr. Swanson relates to the need to create a table for SGPWA to present their storage account balances and transfers of water in the basin. Table 3-9, Consolidation of Storage Accounts, already provides the information requested by Mr. Swanson.

Mr. Swanson commented that the parcels listed under Resolution 2023-01 be listed in the body of the annual report. These parcels are included as part of the Resolution in Appendix A of the report.

Mr. Swanson had other miscellaneous editorial comments, not discussed here, that will be addressed in the final version of the annual report.

Comments by Member Art Vela, City of Banning

While the majority of Member Vela's comments were editorial in nature, he recommended that a note should be added to Table 3-8 indicating that the Watermaster has yet to develop a policy to account for the various New Yield categories.

Language will be added to the text of the report addressing this issue.

Attached to this Memorandum are all the comments provided by BCVWD and the City of Banning.

Should members of the Watermaster Committee be satisfied that all important comments have been addressed properly, we recommend that the Draft of the 2023 Consolidated Annual Report and Engineering Report be approved, and a final version produced. The final version of the report will incorporate all comments received in writing and additional comments discussed during the meeting. All comments will be included under Appendix H in the final report.

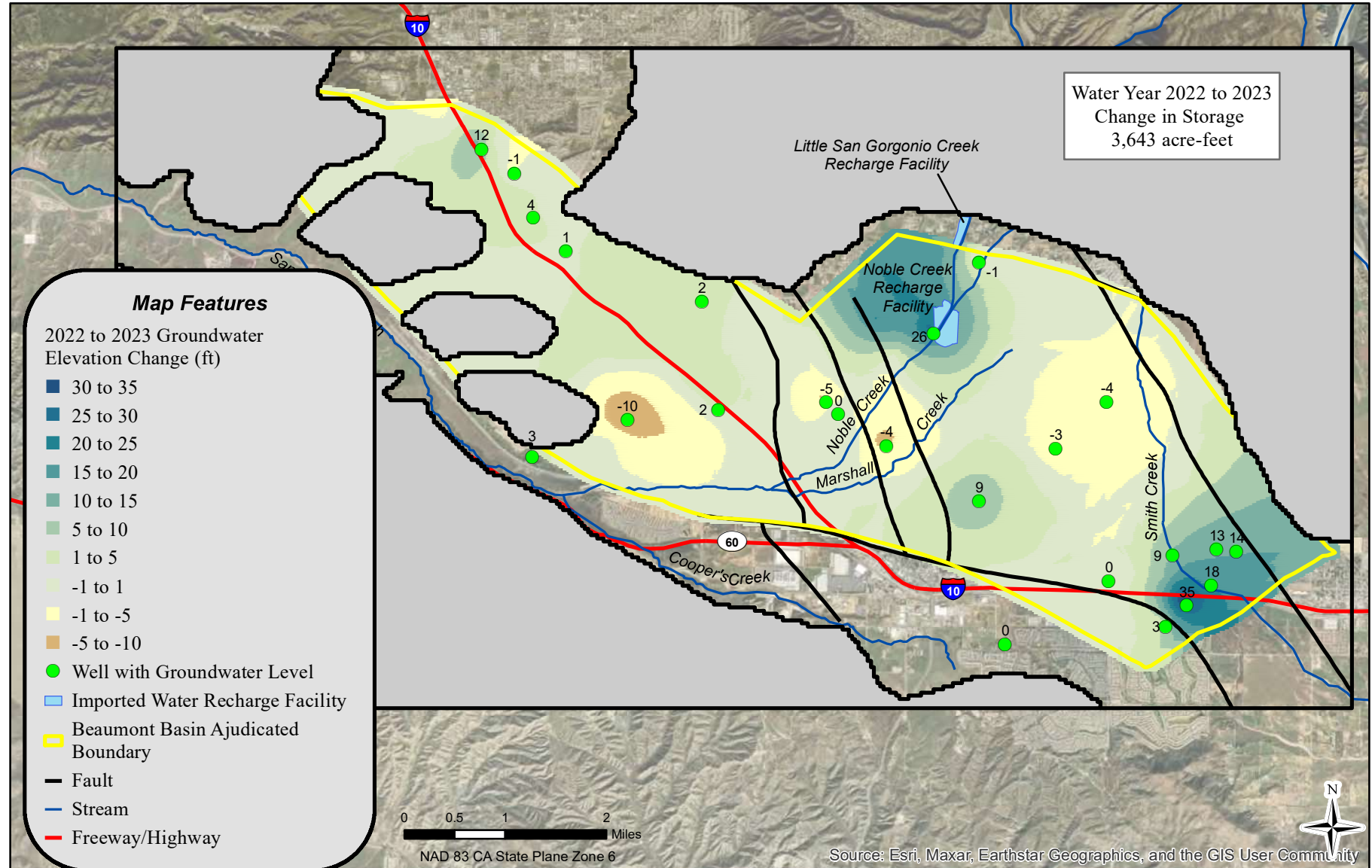
The Draft 2023 Consolidated Annual Report is available online from the “Documents & Publications” section of the Beaumont Basin Watermaster website (www.beaumontbasinwatermaster.org)

Table 3-10
Annual Supplemental Recharge to the Beaumont Basin - Water Year 2023

Year	Supplemental Recharge (ac-ft)				
	Banning	BCVWD	YVWD	SGPWA	Total
Oct-22	-	308.0	-	-	308.0
Nov-22	35.0	1,086.0	-	-	1,121.0
Dec-22	-	-	-	-	-
Jan-23	-	-	-	-	-
Feb-23	-	1,339.0	-	-	1,339.0
Mar-23	-	2,539.0	-	-	2,539.0
Apr-23	-	2,529.0	-	-	2,529.0
May-23	-	1,454.0	-	-	1,454.0
Jun-23	-	1,984.0	-	-	1,984.0
Jul-23	-	1,067.0	-	-	1,067.0
Aug-23	750.0	1,058.0	500.0	-	2,308.0
Sep-23	250.0	1,006.0	-	-	1,256.0
Totals	1,035.0	14,370.0	500.0	-	15,905.0

Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin – 2023

Beaumont Basin Watermaster



Thomas Harder & Co.
Groundwater Consulting

March 2024

Change in Groundwater Elevation
October 2022 to October 2023

RE: 2023 Draft Consolidated Annual and Engineering Report - Comments

From: Swanson, Mark (BCVWD) (mark.swanson@bcvwd.gov)

To: blandona@aldaengineering.com

Cc: dan.jaggers@bcvwd.gov

Date: Monday, May 20, 2024 at 11:58 AM PDT

Hannibal,

Attached are comments from BCVWD related to the BBWM 2023 Annual Report.

Thank you,

Mark Swanson, P.E., QSD
Director of Engineering
Beaumont-Cherry Valley Water District
560 Magnolia Ave.
Beaumont, CA 92223
Office Phone (951) 845-9581 Ext. 218
Fax (951) 845-0159
<http://www.bcvwd.gov>
mark.swanson@bcvwd.gov
District Hours: 8am-5pm Mon-Thurs

From: Swanson, Mark (BCVWD) <mark.swanson@bcvwd.gov>
Sent: Friday, May 17, 2024 12:50 PM
To: Anibal Blandon <blandona@aldaengineering.com>
Cc: Jaggers, Dan (BCVWD) <dan.jaggers@bcvwd.gov>
Subject: Re: 2023 Draft Consolidated Annual and Engineering Report - Comments

Hannibal,

Dan was on vacation last week and just recently returned. BCVWD is working to have comments on Monday.

Let me know if you have any questions.

Thanks you,

Mark Swanson, P.E., QSD/P
Director of Engineering
(951) 845-9581 Ext. 218

Sent from my Verizon, Samsung Galaxy smartphone

Get [Outlook for Android](#)

From: Anibal Blandon <blandona@aldaengineering.com>

Sent: Monday, May 13, 2024 2:03:21 PM

To: Art Vela <avela@banningca.gov>; Nathan Smith <nsmith@banningca.gov>; Jagers, Dan (BCVWD) <dan.jagers@bcvwd.gov>; Swanson, Mark (BCVWD) <mark.swanson@bcvwd.gov>; Joseph Zoba <jzoba@yvwd.us>; Jennifer Ares <jares@yvwd.us>; David Armstrong <darmstrong@southmesawater.com>; Brittany Lim <blim@southmesawater.com>; Robert Vestal <rvestal@beaumontca.gov>; Thierry Montoya <tmontoya@fbtlaw.com>; Steve Stuart <[sstuart@dudek.com](mailto:ssstuart@dudek.com)>; Thomas Harder <tharder@thomashardercompany.com>; Kerney, Lynda (BCVWD) <lynda.kerney@bcvwd.gov>

Subject: Re: 2023 Draft Consolidated Annual and Engineering Report - Comments

All:

Just a quick reminder that comments on the Draft Annual Report are due by this Friday.

Thus far, I received a response from one of the agencies.

Regards

Hannibal Blandon
ALDA Inc.
909-587-9916

On Monday, May 6, 2024 at 09:38:43 AM PDT, Anibal Blandon <blandona@aldaengineering.com> wrote:

All:

I hope all is well.

Just a reminder that comments on the draft report, presented at the April 17, 2024 regular Board meeting, are due by next Friday, May 17, 2024.

Please respond to this email with your comments or with a simple note indicating that there are no comments.

Best Regards

Hannibal Blandon

ALDA Inc.
909-587-9916



BBWM_2023DraftAnnualReport_BCVWD Comments_MBS.pdf
16.8MB

Beaumont Basin Watermaster

2023 Consolidated Annual Report and Engineering Report

DRAFT

2023 Watermaster Board

Art Vela, City of Banning, **Chairman**

Dave Armstrong, South Mesa Water Company, **Vice Chairman**

Daniel Jagers, Beaumont Cherry Valley Water District, **Secretary**

Joseph Zoba, Yucaipa Valley Water District, **Treasurer**

Vacant, City of Beaumont

Alvarado Smith, **Legal Counsel**

Thomas Harder & Company in Association with ALDA Inc., **Engineering**

Rogers, Anderson, Malody, and Scott. LLP, **Financial Auditors**

April 2024

BCVWD Comments to Report
5/20/2024

In addition, there were two Special Meetings on July 13, 2023 and November 1, 2023.

Agendas for each of the above regular and special meetings can be viewed at and/or downloaded from Watermaster's website or by making a request to the Watermaster Secretary. Pursuant to Resolution 2009-01, all of Watermaster's public records are open for inspection during office hours, provided that a written request to inspect said records has been submitted.

2.2.2 Watermaster Committee Resolutions

There was one resolution adopted by the Watermaster Committee during CY 2023. Resolution 2023-01. An unsigned copy of this resolution is included under Appendix A to this report. A signed copy is not available at the time of this report production; however, it will be incorporated into the Final 2023 Consolidated Annual and Engineering Report.

The Resolution adopted during CY 2023 is described as follows:

- ✓ **Resolution No. 2023-01** – A Resolution of the Beaumont Basin Watermaster Recognizing the Designation of a Specific Amount of Overlying Water Rights to Specific Parcels. Resolution was adopted at the June 7th, 2023 Regular Meeting of the Watermaster Committee by unanimous vote.

list the parcels.

2.2.3 Items Discussed in 2023

This section is a summary of topics addressed at Watermaster meetings during CY 2023. The Beaumont Basin Watermaster maintains official meeting minutes that report the items discussed and actions taken during normal and special meetings. Signed official copies of the minutes for all regular and special meetings that took place during the year are included in Appendix B. Official meeting minutes may also be accessed at the Beaumont Basin Watermaster website: www.beaumontbasinwatermaster.org

The following items were discussed during the six regular meetings and two special meetings held in CY 2023 along with their resulting outcome.

Items Discussed During the February 1, 2023 Regular Watermaster Committee Meeting

- ✓ ***Consideration Reorganization of the Beaumont Basin Watermaster Committee – Chair, Vice Chair, Secretary and Treasurer [Memorandum 23-01].*** The current Watermaster Committee Officers were re-affirmed to their respective positions for 2023. Motion was approved unanimously
- ✓ ***Financial Status Report [Memorandum 23-02].*** Member Zoba recommended that this item be placed in the Consent Calendar in the future. He pointed out the list of task orders and suggested discussion at the next meeting regarding deprogramming some of the funds in those tasks that are no longer functional. No action was required.
- ✓ ***Independent Accountants Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster [Memorandum 23-03].*** Member Zoba explained that there is so little activity for this group, that an independent account's report is provided rather

Harder estimated the operating safe yield for 2022 at about 7,000 ac-ft/yr contrasted with 7,900 ac-ft/yr for 2021.

Member Armstrong asked if the management zones would affect storage accounts. Mr. Harder explained all would have to add up to the whole; it is just a matter of managing different areas differently.

Mr. Blandon presented the data on water quality and offered a number of recommendations related to groundwater storage losses, recycled water recharge, accuracy and consistency of data reporting, and the implementation of a water meter maintenance program.

Mr. Blandon requested comments by May 12 in order to be addressed at the June 7 meeting. All comments will be included as an appendix to the Annual Report.

- ✓ *Transfers of Water Rights to Beaumont-Cherry Valley Recreation and Park District [Memorandum 23-08].* Mr. Stuart advised that the BCVRPD is acquiring six parcels, combined 123 acres of land, donated by a developer. Along with the land, 300 ac-ft/yr of water rights are being transferred as part of Sunny Cal North rights transferred from Sunny Cal Egg and Poultry Company. Legal Counsel Montoya advised that there is still uncertainty and when approved it should be done through a resolution. Vice Chair Armstrong tabled the item to be brought back as a resolution at the June meeting.
- ✓ *Update of Well Survey Project and Request for Proposals for Licensed Surveyors to Survey Wells in the Beaumont Basin Monitoring Network [No Written Report].* Vice Chair Armstrong reminded the Committee of previous discussion. Mr. Stuart indicated that he is seeking information from the various agencies. Mr. Jagers noted that if data is needed from City of Beaumont wells, they can be included in BCVWD survey.
- ✓ *Proposal for Development of Data Management System and Demonstration [Memorandum 23-09].* Mr. Palavido of Dudek demonstrated a web-based application consisting of a GIS map-based interface for information on wells. Member Jagers indicated that the five BBWM agencies will share the initial cost and ongoing maintenance costs. Mr. Palavido indicated that most of the maintenance cost is for ESRI licensing. Members discussed taking this item to their Boards and brought back when the City of Banning is in attendance.
- ✓ *Approval of Expenditures related to Public Records Act Request [Memorandum 23-10].* Member Jagers explained that some records may not be readily available. This request is related to the reassessment of SAWPA's groundwater activities. Mr. Harder explained the content of the request for groundwater wells, which will take some effort to put together. Counsel Montoya clarified that SAWPA is entitled to the documents and this is a question of reimbursement of Mr. Harder's time. The expenditure was approved unanimously by present members.

SAWPA

Items Discussed During the June 7, 2023 Regular Watermaster Committee Meeting

- ✓ *Consideration of the Watermaster Budget for Fiscal Year 2023-24 [Memorandum 23-12].* Chair Vela noted that the recommendation is for approval of a budget for fiscal year 2023-24 of \$36,950. Year to date expenses total \$17,934. The Watermaster budget was approved on a 5-0 vote.
- ✓ *Resolution 2023-__ : Recognizing the Designation of a Specific Amount of Overlying Water Rights to Specific Parcels (Transfer of Water Rights to Beaumont-Cherry Valley Recreation Park and District) [Memorandum 23-13].* Mr. Stuart explained the resolution transferring rights. He indicated that the parcels to which the water rights were transferred per Resolution 2006-02 were identified, and those corresponding parcel numbers are now being transferred to BCVRPD and correspond with the parcels identified in Exhibit B of the Judgment. With the revised safe yield of 2013, the water right of 232.4 ac-ft/yr will be transferred. Resolution 2023-01 was approved unanimously.
- ✓ *Transfer of Overlying Water Rights from Oak Valley Partners to Yucaipa Valley Water District [Memorandum 23-14].* Mr. Stuart provided some background on the transfer of all Oak Valley Partners under Resolution 2017-02 including YVWD transferring water rights in 2018 and 2019 for specific tracts and the litigation that took place in 2021.

Form 5? Plural or Singular?

In 2023, YVWD submitted five Forms 5 representing transfers from CY 2018 to CY 2022 and totaling 790.38 ac-ft. Counsel Montoya said he confirmed with Member Zoba that the water provided was for the parcels identified in Resolution 2017-02. He added that there is clear accounting on the BBWM side and recommended the transfer be approved.

Form 5? Plural or Singular?

Chair Vela noted that documentation did not indicate specific phases or tracts being served and that he would like to confirm that the water delivered is outside of the tracts noted in previous Forms 5 and that these are new developments for which transfers have not been accepted. After much discussion on the issue, Vela cautioned against double counting.

Form 5? Plural or Singular?

Member Jagers said he would like confirmation that figures are a true accounting of water supplied and he prefers the method where it is known where the water goes and approximate amounts, and there is a handle of it rather than general aggregate activities. He further added that the submittal did not follow the past process and clarifications are needed before receiving and filing. Member Ares noted this is a matter of interpretation, and the recommendation is to receive and file, not to approve. Member Jagers posited that the current Forms 5 do not provide the information as required by Resolution 2017-02 and requested clarity.

Member Ares moved to receive and file, there was no second. Member Jagers offered a substitute motion to receive and file with further documented clarification and further discussion, resolution, and adherence to the format of Resolution 2017-02. The motion was second and passed 4-1.

Gorgonio Creek Spreading Ponds. These spreading ponds are located outside the adjudicated boundary of the Beaumont Basin, as shown in Figure 3-3. Spreading of imported water at these spreading ponds is likely to be a source of subsurface recharge to the Beaumont Basin; however, Watermaster has not adopted this finding. Subsurface recharge across the Banning Fault was investigated as part of the Safe Yield of the Basin determination study, completed in early 2015.

Should this term be "store" in lieu of "spread?"

Deliveries of imported water by SGPWA to the Little San Gorgonio Creek Spreading Ponds began in August 2003. Between 2004 and 2013, SGPWA recharged a total of 10,464 ac-ft or an average of 1,046.4 ac-ft/yr. Deliveries in CY 2014 through CY 2018 were practically non-existent as less than 44 ac-ft were spread in those five years combined.

Under Resolution 17-01, adopted on June 7, 2017, SGPWA entered into a storage agreement with the Beaumont Basin Watermaster to spread up to 10,000 ac-ft of imported water in the Beaumont Basin subject to certain conditions. Starting in CY 2019, SGPWA began spreading imported water at their new facilities on Brookside Avenue and has spread a total of 1,401.4 ac-ft at this new location. No spreading by SGPWA has taken place at the Little San Gorgonio Creek Spreading Ponds since CY 2016.

3.3.2 Treated Wastewater Recharge

The City of Beaumont owns and operates the Beaumont Wastewater Treatment Plant. The plant was originally designed and permitted to discharge up to 4.0 mgd of tertiary treated wastewater; current capacity is 6.0 mgd. Discharges from this plant are not permitted for recycled water use at this time and are currently regulated under Order No. R8- 2015-0026, NPDES Number CA105376.

Prior to March 2010, Beaumont's treated wastewater from Wastewater Treatment Plant No. 1 was discharged at Discharge Point No. 1 (DP-001) in Cooper's Creek where it infiltrated into the San Timoteo Management Zone and outside the Beaumont Basin. Starting in March 2010, Beaumont began deliveries of treated wastewater to Discharge Point No. 7 (DP-007), located along an unnamed tributary of Marshall Creek, as shown in Figure 3-3. It is believed that a portion of the treated wastewater discharged at this location reaches and recharges the Beaumont Basin. In the Fall of 2015, the City of Beaumont ceased deliveries to DP-007 in Marshall Creek and continued to use the discharge facilities at Discharge Point No. 1 only.

Treated wastewater discharges from this plant peaked during CY 2020 at 4,305 ac-ft (3.83 mgd). Discharges have declined over the last three years to an annual average of 3,958 ac-ft; in CY 2023 a total of 3,790 ac-ft of treated wastewater was discharged.

Monthly discharges at DP-001 varied slightly in CY 2023 from a low 3.22 mgd in February to a high of 3.53 mgd in August; the average for the year was 3.38 mgd. Monthly treated wastewater discharges by the City of Beaumont since 2007 are summarized in Table 3-5.

Safe Yield of 8,650 ac-ft/yr. OVPs rights have been adjusted to 1,398.87 ac-ft/yr based on the recalculated Safe Yield of 6,700 ac-ft/yr as approved by the Watermaster on April 1, 2015. Overlying rights and Overlying-Appropriative rights will be adjusted every 10 years based on the recalculation of the Safe Yield of the Beaumont Basin.

During CY 2018 and CY 2019, OVP transferred, through four separate assignments, a total of 183.05 ac-ft of their Overlying water rights to YVWD. Documentation of these transfers was provided by YVWD to the Watermaster Committee, as correspondence, in the March 28, 2018, August 1, 2018, October 3, 2018, and February 6, 2019 meetings.

Under Resolution 2019-02, adopted on June 25, 2019, the Beaumont Basin Watermaster rescinded Section 7 of the Beaumont Basin Watermaster Rules and Regulations in its entirety and replaced it as provided in Attachment A of the resolution. Under this resolution, the Beaumont Basin Watermaster also updated Form 5 entitled, "Notice to Adjust Rights of an Overlying Party due to Proposed Provision of Water Service by an Appropriator" and Form 7 entitled, "Notice to Transfers of Appropriator Production Right of Operating Yield Between Appropriators".

At the Dec 4, 2019 Watermaster Meeting, YVWD submitted a Form 5, signed Nov 19, 2019, documenting the transfer of OVP's all original 1,806 / revised 1,398.90 ac-ft ("Earmarked Water") of Overlying Water Rights to YVWD effective on October 9, 2018 (See Appendix E of the 2020 Annual Report). This issue was extensively discussed at that meeting and throughout the various meetings in 2020 between legal counsel and members of the Watermaster Committee without reaching an agreement. In mid-2021, YVWD filed with the Court two related motions. The first motion was to rescind Watermaster Rule 7.3 (formerly Rule 7.8); the second motion was to order the Watermaster to recognize Oak Valley Partners, LP's transfer of overlying water rights. On August 31, 2021, the Court denied these motions without prejudice. A copy of the Notice of Entry of Order Regarding YVWD's Motions, along with associated exhibits A and B was included under Appendix A of the 2021 Annual Report.

On May 24, 2023, YVWD notified the Watermaster that completed Forms 5 for CY 2018 through CY 2022, documenting OVP's transfers will be included in the Correspondence section of the June 7, 2023 meeting packet to Receive and File. Through this submittal, YVWD wanted to transfer a cumulative 790.3 ac-ft of Overlying water rights from OVP for this five-year period. This item was brought up for discussion under TM 23-14 and as a result the Watermaster Committee voted to receive and file the Form 5 as provided by YVWD with further documented clarification of the rescission of the previous requests for water rights transfers, and further discussion, resolution, and adherence to the format of Resolution 2017-02.

On September 18, 2023, the YVWD submitted the information requested by the Watermaster Committee for consideration at the October 4, 2023 regular meeting. The information provided by YVWD was deemed to be complete and properly documented and as a result the Watermaster Committee approved to Receive and File the transfer of Overlying water rights from OVP to YVWD for calendar years 2018 through 2022. The water rights transferred during this period are as follows:

for each year for all areas served on a year-by-year basis.

aggregated

Note: These numbers are on a year-by-year basis and the expectation is that 2023 consumptions were lower by approx. 20%. Also, the transfers to parcels should be provided for 2023, not just rolled over from 2022.

- ✓ 2018 – 0.11 ac-ft
- ✓ 2019 – 63.96 ac-ft
- ✓ 2020 – 194.82 ac-ft
- ✓ 2021 – 366.77 ac-ft
- ✓ 2022 – 478.25 ac-ft

Need 2023 totals added for all parcels served.

Supporting documentation for this transfer is included under Appendix F as follows:

- ✓ Technical Memorandum 23-25 documenting the transfer
- ✓ General background information provided in the packet
- ✓ Original Form 5 submitted by YVWD and dated November 19, 2019
- ✓ Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2018, including:
 - A map of parcels served in 2018
 - Annual volumes of water delivered to each parcel served totaling 0.11 ac-ft
- ✓ Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2019, including:
 - A map of parcels served in 2019
 - Annual volumes of water delivered to each parcel served totaling 63.96 ac-ft
- ✓ Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2020, including:
 - A map of parcels served in 2020
 - Annual volumes of water delivered to each parcel served totaling 194.82 ac-ft
- ✓ Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2021, including:
 - A map of parcels served in 2021
 - Annual volumes of water delivered to each parcel served totaling 366.77 ac-ft
- ✓ Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2022, including:
 - A map of parcels served in 2022
 - Annual volumes of water delivered to each parcel served totaling 478.25 ac-ft

For CY 2023, the YVWD did not provide additional delivery information, as a result, the same quantity transferred in CY 2022 of 478.25 ac-ft is applied.

A table should be created for SGPWA due to their having a storage account and the ability to transfer water within the basin.

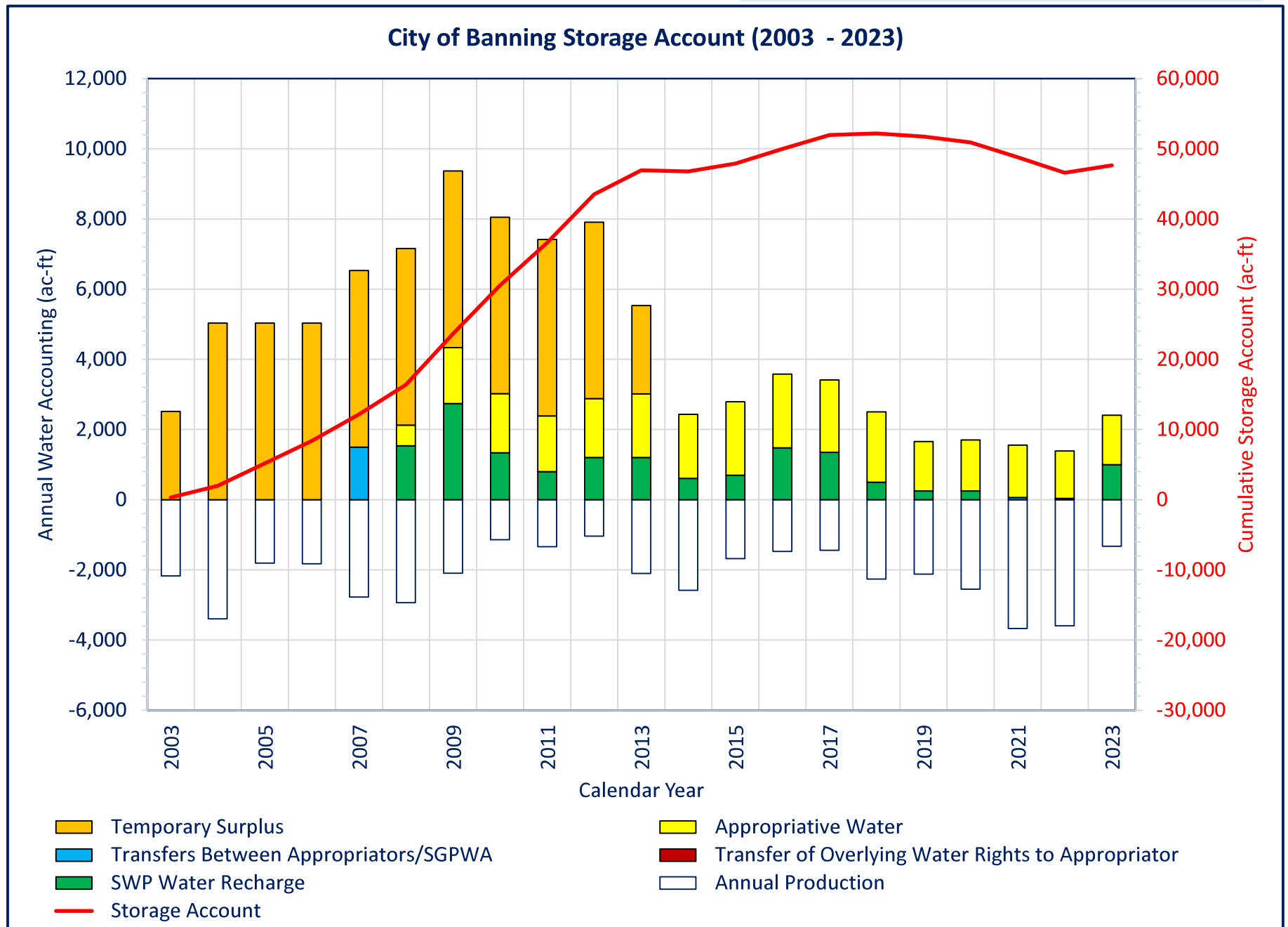


Figure 3-5

City of Banning - Supply Sources and Storage Account (2003-23)

This quantity should be verified for 2023. Is it really the same as 2022?

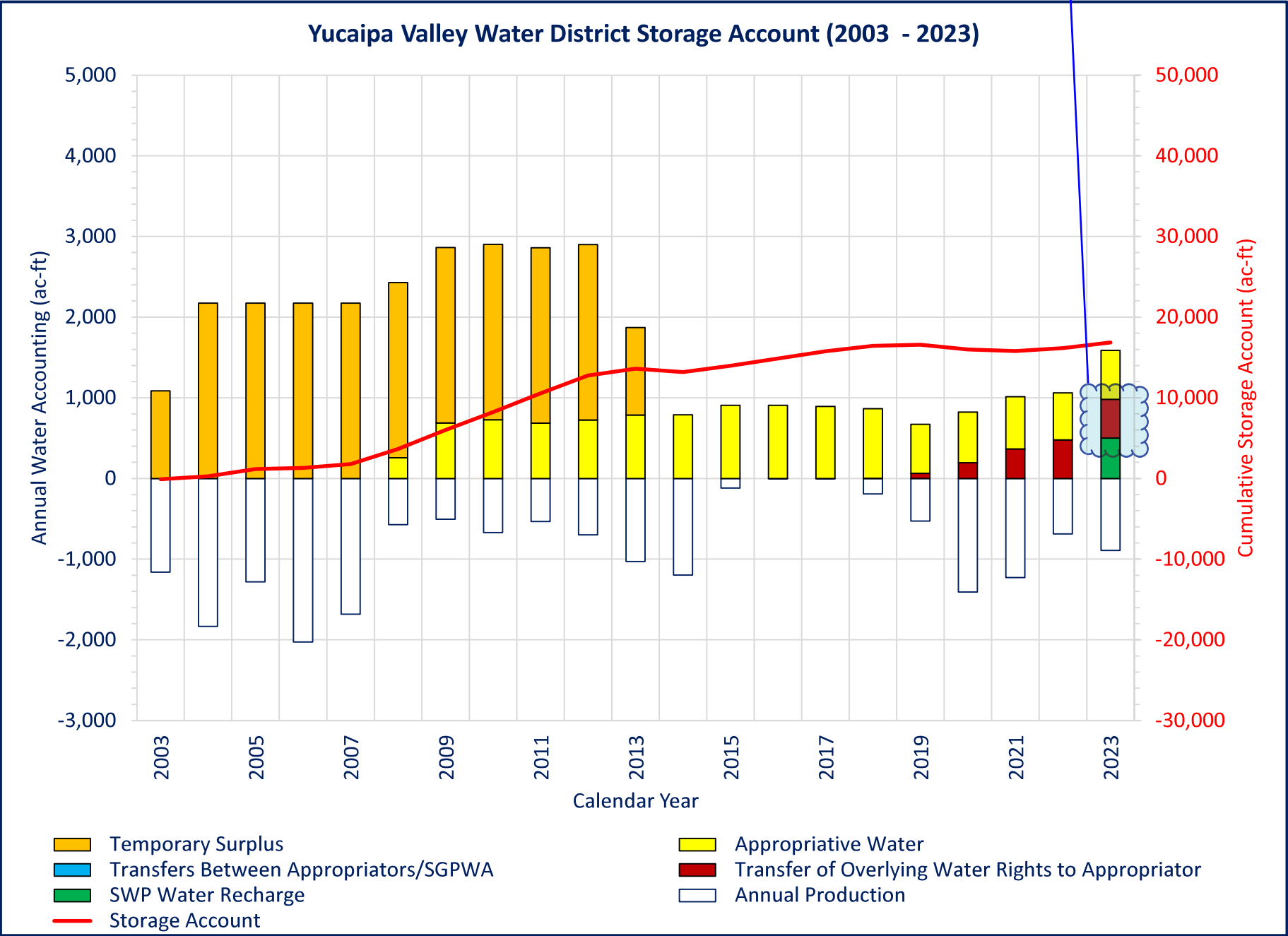


Figure 3-8

YVWD - Supply Sources and Storage Account (2003-23)

Basinwide, this may need to be adjusted based on YVWD 2023 parcels served. Need information

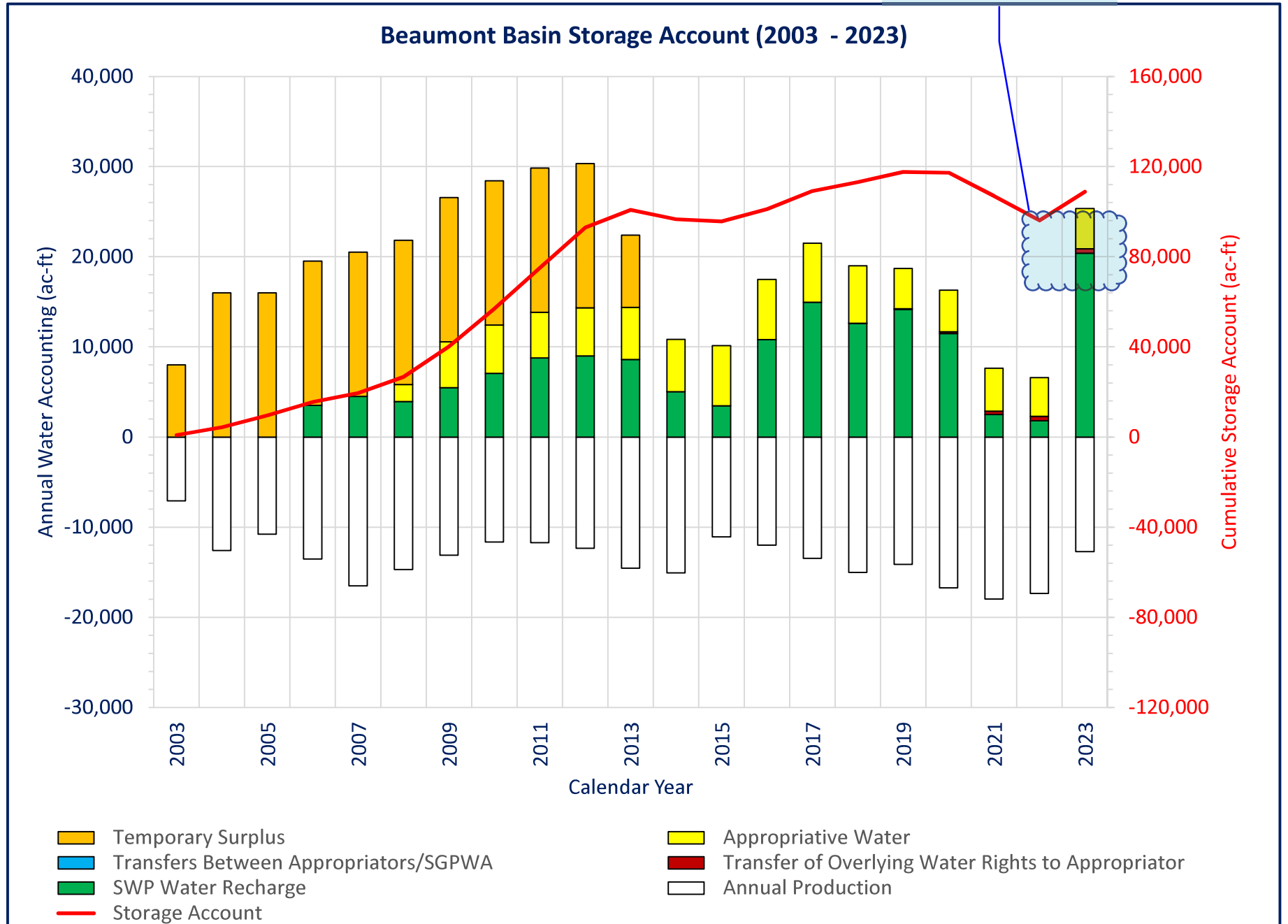
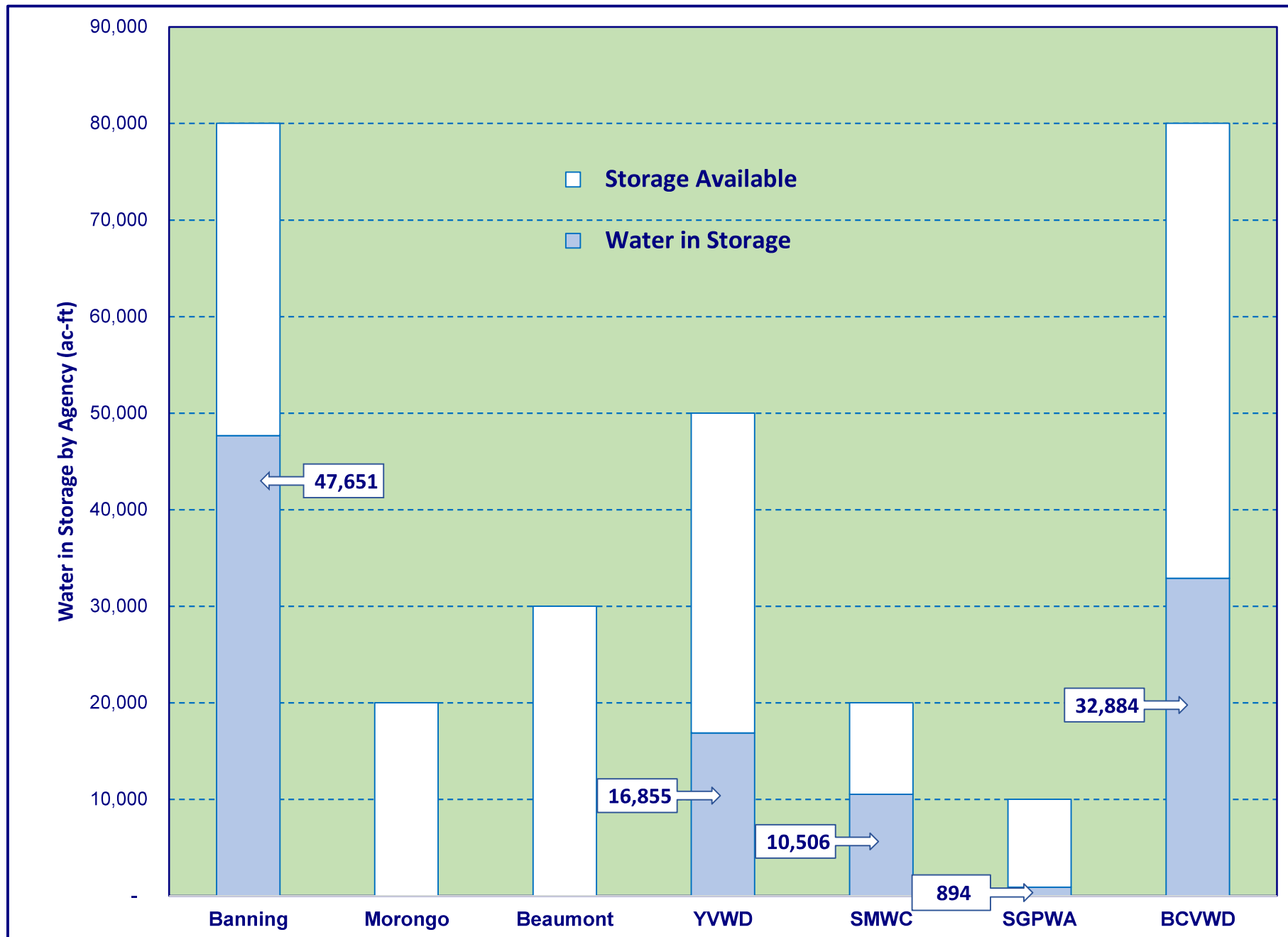


Figure 3-9

Beaumont Basin - Supply Sources and Storage Account (2003-23)



Based on previous comments regarding YVWD's 2023 Overlier Service amounts, these numbers may need to be adjusted, and may change future overlier allocations

Figure 3-10
Groundwater Storage by Agency/User as of 2023

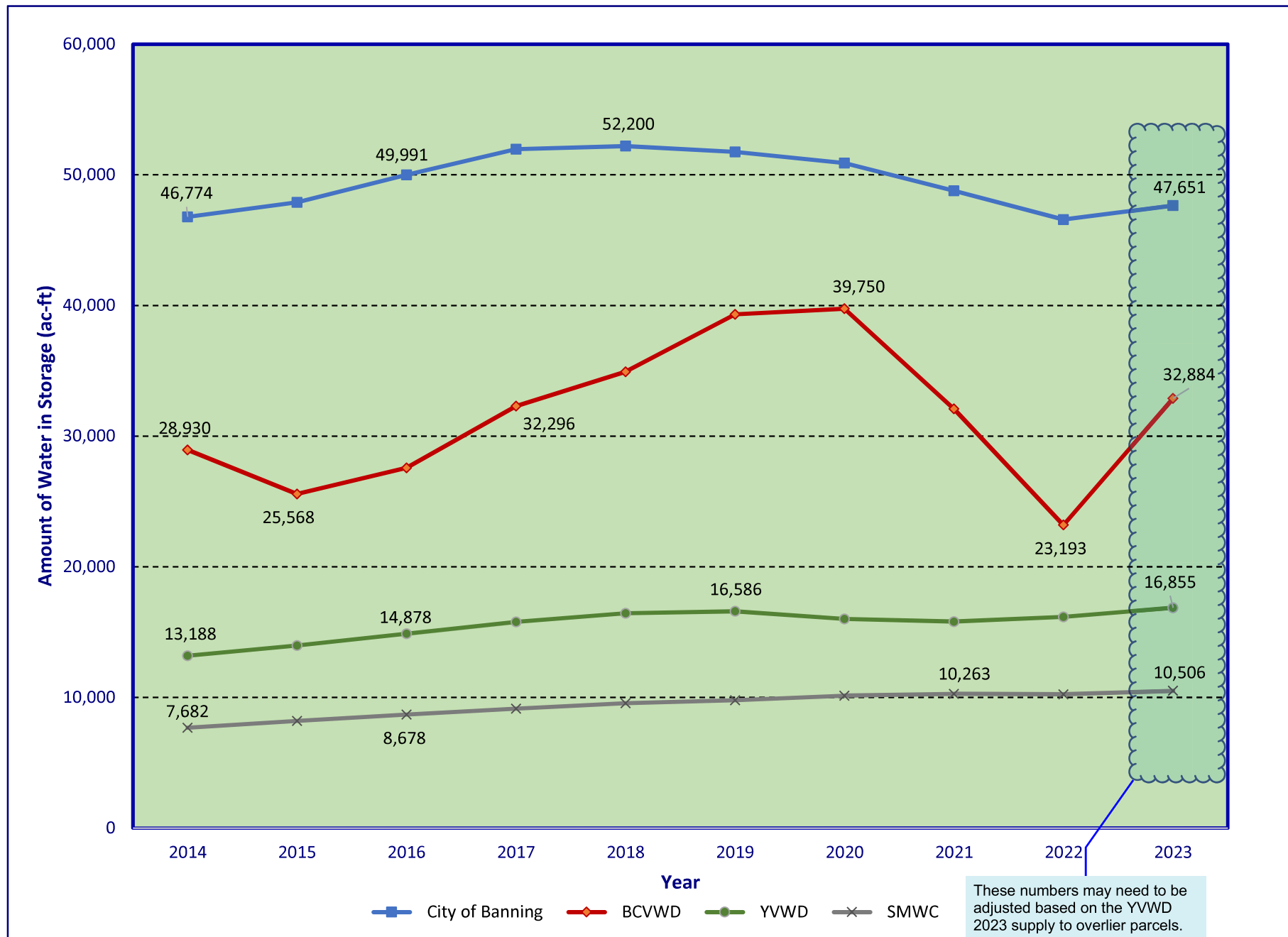


Figure 3-11

Accumulation of Storage by Appropriator for the 2014-2023 10-Yr Period

Table 3-7
Summary of Unused Overlying Water and Allocation to Appropriators (ac-ft)

Accounting Year	Overlying Water Right	Overlying Production	Unused Overlying Water Right	Allocation Year	City of Banning	City of Beaumont	Beaumont Cherry Valley WD	South Mesa Water Co.	Yucaipa Valley Water District	Total
2003	4,325	2,441	1,884	2008	592	0	801	235	256	1,884
2004	8,650	3,576	5,074	2009	1,595	0	2,157	633	689	5,074
2005	8,650	3,293	5,357	2010	1,684	0	2,277	669	728	5,357
2006	8,650	3,597	5,053	2011	1,588	0	2,148	631	686	5,053
2007	8,650	3,307	5,343	2012	1,679	0	2,272	667	726	5,343
2008	8,650	2,872	5,778	2013	1,816	0	2,456	721	785	5,778
2009	8,650	2,838	5,812	2014	1,827	0	2,471	725	789	5,812
2010	8,650	1,976	6,674	2015	2,097	0	2,837	833	906	6,674
2011	8,650	1,971	6,679	2016	2,099	0	2,839	833	907	6,679
2012	8,650	2,085	6,565	2017	2,063	0	2,791	819	891	6,565
2013	8,650	2,285	6,365	2018	2,001	0	2,706	794	864	6,365
2014	6,700	2,219	4,481	2019	1,408	0	1,905	559	609	4,481
2015	6,700	2,086	4,614	2020	1,450	0	1,962	576	627	4,614
2016	6,700	1,936	4,764	2021	1,497	0	2,025	595	647	4,764
2017	6,700	2,404	4,296	2022	1,350	0	1,826	536	583	4,296
2018 ¹	6,700	2,220	4,480	2023	1,408	0	1,904	559	608	4,480
2019	6,636	1,773	4,863	2024	1,528	0	2,067	607	660	4,863
2020	6,505	1,912	4,594	2025	1,444	0	1,953	573	624	4,594
2021	6,333	1,966	4,367	2026	1,373	0	1,856	545	593	4,367
2022	6,222	2,135	4,087	2027	1,285	0	1,737	510	555	4,087
2023	6,222	1,518	4,704	2028	1,479	0	2,000	587	639	4,704

1.- At the October 4, 2023, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 through 2022 as follows: a) 2018, 0.11 ac-ft b) 2019, 63.96 ac-ft, c) 2020, 194.82 ac-ft, d) 2021, 366.77 ac-ft, and e) 2022, 478.25 ac-ft. Transfers for CY 2023 remain at the CY 2022 level since YVWD has not documented increasing delivery volumes. As a result, cumulative Overlying water rights have decreased by the listed quantities.

Does this actually carry over to 2023? YVWD should provide the data which supports what was served to the overlying parcels.

This may be impacted depending on what was served in 2023.

Table 3-8
Appropriator's Production Right

Calendar Year	Operating Yield		Water Acquired		New Yield		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
Yucaipa Valley Water District								
2003	1,086.5	0.0	0.0	0.0	0.0	0.0	75.9	1,162.4
2004	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2005	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2006	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2007	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2008	2,173.0	255.9	0.0	0.0	0.0	0.0	0.0	2,428.9
2009	2,173.0	689.0	0.0	0.0	0.0	0.0	0.0	2,862.0
2010	2,173.0	727.5	0.0	0.0	0.0	0.0	0.0	2,900.5
2011	2,173.0	686.2	0.0	0.0	0.0	0.0	0.0	2,859.2
2012	2,173.0	725.6	0.0	0.0	0.0	0.0	0.0	2,898.6
2013	1,086.5	784.7	0.0	0.0	0.0	0.0	0.0	1,871.2
2014	0.0	789.2	0.0	0.0	0.0	0.0	409.2	1,198.5
2015	0.0	906.3	0.0	0.0	0.0	0.0	0.0	906.3
2016	0.0	907.0	0.0	0.0	0.0	0.0	0.0	907.0
2017	0.0	891.5	0.0	0.0	0.0	0.0	0.0	891.5
2018	0.0	864.4	0.1	0.0	0.0	0.0	0.0	864.5
2019	0.0	608.5	64.0	0.0	0.0	0.0	0.0	672.5
2020	0.0	626.6	194.8	0.0	0.0	0.0	586.3	1,407.7
2021	0.0	646.9	366.8	0.0	0.0	0.0	214.8	1,228.5
2022	0.0	583.4	478.3	0.0	0.0	0.0	0.0	1,061.7
2023	0.0	608.3	478.3	0.0	0.0	0.0	0.0	1,086.6

This number needs to be reported for . This could be more or less than than 2022, but should be credited accurately per format approved.

Table 3-9
Consolidation of Storage Accounts

Calendar Year	Appropriator 's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Total Additions to or Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
Yucaipa Valley Water District - Authorized Storage Account: 50,000 ac-ft									
2003	1,162.4	1,162.4	0.0	0.0	0.0	0.0	0.0	75.9	-75.9
2004	2,173.0	1,833.7	0.0	0.0	0.0	0.0	0.0	0.0	263.4
2005	2,173.0	1,281.3	0.0	0.0	0.0	0.0	0.0	0.0	1,155.1
2006	2,173.0	2,027.3	0.0	0.0	0.0	0.0	0.0	0.0	1,300.8
2007	2,173.0	1,682.9	0.0	0.0	0.0	0.0	0.0	0.0	1,790.9
2008	2,428.9	572.0	0.0	0.0	0.0	0.0	0.0	0.0	3,647.8
2009	2,862.0	504.4	0.0	0.0	0.0	0.0	0.0	0.0	6,005.4
2010	2,900.5	672.4	0.0	0.0	0.0	0.0	0.0	0.0	8,233.5
2011	2,859.2	534.1	0.0	0.0	0.0	0.0	0.0	0.0	10,558.6
2012	2,898.6	700.1	0.0	0.0	0.0	0.0	0.0	0.0	12,757.2
2013	1,871.2	1,030.8	0.0	0.0	0.0	0.0	0.0	0.0	13,597.6
2014	1,198.5	1,198.5	0.0	0.0	0.0	0.0	0.0	409.2	13,188.4
2015	906.3	119.2	0.0	0.0	0.0	0.0	0.0	0.0	13,975.5
2016	907.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	14,877.9
2017	891.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	15,769.2
2018	864.5	191.2	0.0	0.0	0.0	0.0	0.0	0.0	16,442.5
2019	672.5	528.6	0.0	0.0	0.0	0.0	0.0	0.0	16,586.4
2020	1,407.7	1,407.7	0.0	0.0	0.0	0.0	0.0	586.3	16,000.1
2021	1,228.5	1,228.5	0.0	0.0	0.0	0.0	0.0	214.8	15,785.3
2022	1,061.7	686.5	0.0	0.0	0.0	0.0	0.0	0.0	16,160.4
2023	1,086.6	891.7	0.0	500.0	0.0	0.0	0.0	0.0	16,855.3

Verify the number per previous comments regarding overlyer rights.

RE: 2023 Draft Consolidated Annual and Engineering Report - Comments

From: Arturo Vela (avela@banningca.gov)
To: blandona@aldaengineering.com
Date: Thursday, May 16, 2024 at 02:17 PM PDT

See attached.

Arturo Vela, P.E.
Director of Public Works
Public Works Department
City of Banning
Direct Line: 951-922-3134
Direct Fax: 951-922-3141
avela@banningca.gov
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Banning, CA 92220
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-----Original Message-----

From: Anibal Blandon <blandona@aldaengineering.com>
Sent: Monday, May 13, 2024 2:03 PM
To: Arturo Vela <avela@banningca.gov>; Nathan Smith <nsmith@banningca.gov>; Jagers Dan (BCVWD) <dan.jagers@bcvwd.gov>; Swanson Mark (BCVWD) <mark.swanson@bcvwd.gov>; Joseph Zoba <jzoba@yvwd.us>; Jennifer Ares <jares@yvwd.us>; David Armstrong <darmstrong@southmesawater.com>; Brittany Lim <blim@southmesawater.com>; Robert Vestal <rvestal@beaumontca.gov>; Thierry Montoya <tmontoya@fbtlaw.com>; Steve Stuart <[sstuart@dudek.com](mailto:ssstuart@dudek.com)>; Thomas Harder <tharder@thomashardercompany.com>; Kerney Lynda (BCVWD) <lynda.kerney@bcvwd.gov>
Subject: Re: 2023 Draft Consolidated Annual and Engineering Report - Comments

All:

Just a quick reminder that comments on the Draft Annual Report are due by this Friday.

Thus far, I received a response from one of the agencies.

Regards

Hannibal Blandon
ALDA Inc.
909-587-9916

On Monday, May 6, 2024 at 09:38:43 AM PDT, Anibal Blandon <blandona@aldaengineering.com> wrote:

All:

I hope all is well.

Just a reminder that comments on the draft report, presented at the April 17, 2024 regular Board meeting, are due by next Friday, May 17, 2024.

Please respond to this email with your comments or with a simple note indicating that there are no comments.

Best Regards

Hannibal Blandon
ALDA Inc.
909-587-9916



Summary of Comments on Beaumont Basin Watermaster Draft Annual Report 2023 Art Vela 5.16.24.pdf
9.1MB

Section 1 Background

Summary of Comments on Beaumont Basin Watermaster.pdf

Page: 9

Author: avela Subject: Highlight Date: 5/16/2024 1:26:10 PM
Is this description still relevant (i.e. Section 3 and Water Quality section) considering that they were added over 10 years ago?

The 2023 Consolidated Annual and Engineering Report of the Beaumont Basin Watermaster Committee (Watermaster) consolidates the information about the basin previously presented in Annual Reports with the information presented in the bi-annual Engineer's Report. This report documents activities in the Beaumont Basin for Calendar Year 2023. **Section 3 of the original annual report has been expanded and retitled as "Status of the Basin and Administration of the Judgment"; it documents the Administration of the Judgment as well as provides a status of conditions in the basin addressing water production, water levels, recharge of supplemental water, water transfers, and storage activities. In addition, a Water Quality Conditions section, Section 4, has been added to document water quality of selected compounds at selected wells, as well as basin wide concentrations for the 2019-2023 five-year period.**

1.1 History of the Beaumont Basin Stipulated Judgment

In January 2001, the City of Beaumont (Beaumont), the Beaumont-Cherry Valley Water District (BCVWD), the South Mesa Water Company (SMWC), and the Yucaipa Valley Water District (YVWD) formed the San Timoteo Watershed Management Authority (STWMA). One of the initial tasks of STWMA was to develop a watershed-wide program to develop and implement a comprehensive management program for the San Timoteo watershed.

Phase I of the management program, documented in the San Timoteo Watershed Management Program, Phase I Report (WEI, 2002), included the following goals:

- ✓ Enhancing water supplies
- ✓ Protecting and enhancing water quality
- ✓ Optimizing the management of STWMA area groundwater basins
- ✓ Protecting riparian habitat in San Timoteo Creek and protecting/enhancing habitat in the STWMA area
- ✓ Equitably distributing the benefits and costs of developing the Integrated Regional Watershed Management Program for the San Timoteo watershed

One of the elements identified in the management plan to achieve the listed goals consisted in the establishment of a groundwater management entity for the Beaumont Basin. As a result of this initiative, two groups representing overlying users and water agencies with interest in this basin began negotiations in May 2002.

Over the next 18 months of negotiations, a Stipulated Agreement was developed and submitted to the Court. Honorable Judge Gary Tranbarger of the Superior Court of the State of California for the County of Riverside signed the Agreement, titled "San Timoteo Watershed Management Authority, vs. City of Banning, et al." (Case No. RIC 389197), on February 4, 2004, (the Judgment).

In addition, there were two Special Meetings on July 13, 2023 and November 1, 2023.

Agendas for each of the above regular and special meetings can be viewed at and/or downloaded from Watermaster's website or by making a request to the Watermaster Secretary. Pursuant to Resolution 2009-01, all of Watermaster's public records are open for inspection during office hours, provided that a written request to inspect said records has been submitted.

2.2.2 Watermaster Committee Resolutions

There was one resolution adopted by the Watermaster Committee during CY 2023. Resolution 2023-01. An unsigned copy of this resolution is included under Appendix A to this report. A signed copy is not available at the time of this report production; however, it will be incorporated into the Final 2023 Consolidated Annual and Engineering Report.

The Resolution adopted during CY 2023 is described as follows:

- ✓ **Resolution No. 2023-01** – A Resolution of the Beaumont Basin Watermaster Recognizing the Designation of a Specific Amount of Overlying Water Rights to Specific Parcels. Resolution was adopted at the June 7th, 2023 Regular Meeting of the Watermaster Committee by unanimous vote.

2.2.3 Items Discussed in 2023

This section is a summary of topics addressed at Watermaster meetings during CY 2023. The Beaumont Basin Watermaster maintains official meeting minutes that report the items discussed and actions taken during normal and special meetings. Signed official copies of the minutes for all regular and special meetings that took place during the year are included in Appendix B. Official meeting minutes may also be accessed at the Beaumont Basin Watermaster website: www.beaumontbasinwatermaster.org

The following items were discussed during the six regular meetings and two special meetings held in CY 2023 along with their resulting outcome.

Items Discussed During the February 1, 2023 Regular Watermaster Committee Meeting

- ✓ **Consideration Reorganization of the Beaumont Basin Watermaster Committee – Chair, Vice Chair, Secretary and Treasurer [Memorandum 23-01]** The current Watermaster Committee Officers were re-affirmed to their respective positions for 2023. Motion was approved unanimously
- ✓ **Financial Status Report [Memorandum 23-02]** Member Zoba recommended that this item be placed in the Consent Calendar in the future. He pointed out the list of task orders and suggested discussion at the next meeting regarding deprogramming some of the funds in those tasks that are no longer functional. No action was required.
- ✓ **Independent Accountants Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster [Memorandum 23-03]** Member Zoba explained that there is so little activity for this group, that an independent account's report is provided rather

3.3 Groundwater Recharge

The Watermaster is responsible for maintaining an annual account of all water artificially recharged in the Beaumont Basin and any losses of water supplies or Safe Yield resulting from such recharged water. Sources of groundwater recharge include imported water from the State Water Project (SWP), recycled water, and new yield sources developed in the basin since the Judgment inception in July 2003. The Watermaster has maintained the accounting of groundwater recharge; however, losses from the basin, estimated in the ~~recently~~ completed (Sep 2018) Beaumont Basin Storage Analysis, have not been incorporated into the accounting of storage in the basin. The Watermaster may adopt a policy to address storage losses in the future. Table 3-4 presents a summary of the annual groundwater recharge in the Beaumont Basin since 2004 on a calendar year basis. There was no imported water recharge in 2003.

3.3.1 State Water Project Water Recharge

Deliveries of imported water are conducted through the San Geronimo Pass Water Agency, the State Water Contractor for this area. BCVWD's Noble Creek Recharge Facility (NCRF), located in the vicinity of Beaumont Avenue and Cherry Valley Blvd., ~~has been until recently~~ the primary facility in the Beaumont Basin where imported water can be delivered for groundwater recharge. The location of this recharge facility is depicted in Figure 3-3. In 2019, SGPWA completed the construction of a new spreading facility southwest of the intersection of Beaumont Avenue and Brookside Avenue; spreading of imported water at this location took place for the first time in December of that year when 257.80 ac-ft were spread.

BCVWD began taking deliveries of imported water for groundwater recharge in the Fall of 2006 when 3,501 ac-ft were spread pursuant to the storage and recharge agreement on file with Watermaster. Deliveries of imported water for BCVWD increased over the next five years peaking in CY 2011 at 7,979 ac-ft and declining through 2015 to a low of 2,773 ac-ft. From CY 2017 through CY 2020, BCVWD spread over 10,000 ac-ft per year; however, spreading in CY 2021 decreased to a low of 2,468 ac-ft and in CY 2022 to an all-time low of 1,776.0 ac-ft. The significant reduction in imported water for groundwater recharge in those two years has been primarily related to the lack of available water from the SWP. However, in CY 2023, thanks to a significantly above average precipitation in the northern portion of the State, BCVWD was able to spread 18,000 ac-ft of SWP project water. In total, 131,136 ac-ft of imported water have been spread on behalf of BCVWD since CY 2006, as listed in Table 3-4.

The City of Banning began purchasing imported water for recharge at BCVWD's NCRF in July 2008 and has since recharged 14,977.2 ac-ft. in accordance with their storage agreement on file with Watermaster. During CY 2012 and 2013, Banning spread an average of 100 ac-ft per month; spreading in CY 2014 and 2015 was reduced to approximately half of that amount. However, spreading in CY 2016 and 2017 increased significantly to 1,477 ac-ft and 1,350 ac-ft, respectively. In CY 2019 and again in CY 2020, the City of Banning spread only 250 ac-ft of imported water per year while no spreading took place in CY 2021. In CY 2023, the City of Banning spread 1,000 ac-ft of imported water.

In addition to imported water deliveries to BCVWD and the City of Banning at BCVWD's NCRF, SGPWA has also delivered significant quantities of imported water at the Little San

Author: avela Subject: Cross-Out Date: 5/16/2024 1:30:54 PM
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Author: avela Subject: Cross-Out Date: 5/16/2024 1:32:24 PM
"was" the primary facility

3.10 Recommendations

The Rules and Regulations, initially adopted in June 2004, were developed with the understanding that they should be revisited and/or revised from time to time to make sure they were consistent with the provisions of the Judgment. Revisions to the Rules and Regulations have been made over the years with the latest revisions adopted in December 2022 as documented earlier in Section 2.4. The latest revisions to the Rules and Regulations, as documented in Resolution 2022-09 will significantly increase the consistency in documenting Overlying water transfers for service by Appropriators and for reporting groundwater levels recording procedures.

In September 2018, a study to estimate groundwater losses from the basin was completed for Watermaster. In this study groundwater losses from the basin resulting from spreading of imported or outside water at selected locations in the basin was estimated. The study has been accepted by the Watermaster Committee; however, a methodology to address this issue is yet to be developed.

Watermaster may conduct additional studies in the future in support of:

- ✓ Developing a methodology to account for new yield from capturing local stormwater in the basin, and
- ✓ Developing a methodology to account for recycled water recharge in the basin.

In preparing this annual report and through the review of previous annual reports, we have identified a number of issues/activities that should be considered by the Watermaster to ensure accurate accounting of production, transfers, recharge, and storage. It should be noted that many of the recommendations provided in this section have been previously documented in prior annual reports. Our recommendations are as follows:

- ✓ Develop a protocol to increase the accuracy and consistency of data reported to the Watermaster. This has been partially addressed by the changes to the Rules and Regulations, as documented in Resolution 2022-09. Watermaster should identify a person and/or entity to be the central repository for data collection/transfer, and exchange. This person/entity shall be responsible for the collection and distribution of all groundwater production, water level, groundwater recharge, and water quality information. Quality control of the data in its various forms including checks for errors, omissions, and inconsistencies between the reporting agencies and/or parties should be part of this process.

As indicated earlier, Watermaster should revisit the Rules and Regulations to ensure that its activities are consistent with the requirements of the Judgment. **The following inconsistencies between guidelines provided in this document and current Watermaster activities were identified:**

- ✓ Watermaster has not conducted a meter maintenance program, as required under Section 3.1 of the Rules and Regulations, to make sure groundwater production is

Table 3-8
Appropriator's Production Right

Calendar Year	Operating Yield		Water Acquired		New Yield		Water From Storage	Appropriator's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlaying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
City of Banning								
2003	2,514.5	0.0	0.0	0.0	0.0	0.0	0.0	2,514.5
2004	5,029.0	0.0	0.0	0.0	0.0	0.0	0.0	5,029.0
2005	5,029.0	0.0	0.0	0.0	0.0	0.0	0.0	5,029.0
2006	5,029.0	0.0	0.0	0.0	0.0	0.0	0.0	5,029.0
2007	5,029.0	0.0	0.0	1,500.0	0.0	0.0	0.0	6,529.0
2008	5,029.0	592.2	0.0	0.0	0.0	0.0	0.0	5,621.2
2009	5,029.0	1,594.7	0.0	0.0	0.0	0.0	0.0	6,623.7
2010	5,029.0	1,683.8	0.0	0.0	0.0	0.0	0.0	6,712.8
2011	5,029.0	1,588.2	0.0	0.0	0.0	0.0	0.0	6,617.2
2012	5,029.0	1,679.5	0.0	0.0	0.0	0.0	0.0	6,708.5
2013	2,514.5	1,816.1	0.0	0.0	0.0	0.0	0.0	4,330.6
2014	0.0	1,826.7	0.0	0.0	0.0	0.0	150.4	1,977.1
2015	0.0	2,097.5	0.0	0.0	0.0	0.0	0.0	2,097.5
2016	0.0	2,099.1	0.0	0.0	0.0	0.0	0.0	2,099.1
2017	0.0	2,063.2	0.0	0.0	0.0	0.0	0.0	2,063.2
2018	0.0	2,000.6	0.0	0.0	0.0	0.0	0.0	2,000.6
2019	0.0	1,408.4	0.0	0.0	0.0	0.0	462.9	1,871.3
2020	0.0	1,450.3	0.0	0.0	0.0	0.0	848.3	2,298.6
2021	0.0	1,497.2	0.0	60.0	0.0	0.0	2,110.9	3,668.1
2022	0.0	1,350.3	0.0	0.0	0.0	0.0	2,208.4	3,558.7
2023	0.0	1,407.9	0.0	0.0	0.0	0.0	0.0	1,407.9

2.- What sources contribute nitrate to groundwater of the BMZ?

The report indicates that in Zone 1 the isotopes of nitrate values overlap those expected for human or animal waste. Similarly, in Zone 3 the isotopic composition of water suggests a high probability of inputs of nitrate from human or animal waste. The presence of PPCPs in most samples indicates the possibility that septic systems are contaminating groundwater within the central part of Cherry Valley.

3.- How much nitrate from human waste is making its way into the groundwater of the BMZ?

The report documents the following findings:

- ✓ Mixing models suggest that between 18 to 30 percent of the nitrate in central Cherry Valley groundwater is derived from septic systems.
- ✓ If septic systems were completely phased out, nitrate concentrations in central Cherry Valley groundwater could decline by 30 percent once a steady state condition is achieved. The time to reach a steady state is anticipated to be shorter than in other portions of the BMZ due to relatively high rates of recharge in Zone 3.
- ✓ Mass balance calculations show that nitrate-nitrogen inputs from septic systems is one of the largest inputs of nitrogen to groundwater in the BMZ.
- ✓ If the waste from septic tanks were to be conveyed to the City of Beaumont WWTP, about 30 percent of the current input of nitrate from human waste to groundwater would be removed.

4.2 Comparison with Federal and State Drinking Water Standards

The California Department of Health Services (CDPH) maintains an active water quality database of all public and private drinking water wells throughout the state. This database was recently incorporated into the Groundwater Ambient Monitoring and Assessment (GAMA) program. The GAMA program is California's comprehensive groundwater quality monitoring program that was created by the State Water Resources Control Board in 2000. The program was later expanded by Assembly Bill 559, also known as the Groundwater Quality Monitoring Act of 2001.

Chemical information for drinking water sources is grouped in the GAMA program in various databases depending on the year(s) of information desired. This annual report documents water quality conditions for the 2018-22 period. To gather pertinent information, the 2015-19 and 2020-Present databases in the State of California Water Resources Control Board website were accessed. Accessing the water quality information in the GAMA program has been significantly enhanced compared to previous databases run through the CDPH website; it is better organized and easier to access and compile. The 2020 and earlier annual reports documented water quality information using databases from the CDPH website.

The objective of this water quality analysis was to determine whether any of the potable wells in the Beaumont Basin exceeded the Primary or Secondary Federal and State standards or

ALDA Inc.

In Association with

Thomas Harder & Co.
Groundwater Consulting

