Beaumont Basin Watermaster

2019 Consolidated Annual Report and Engineering Report

DRAFT

2019 Watermaster Board

Art Vela, City of Banning, **Chairman**
George Jorritsma, South Mesa Water Company, **Vice Chairman**
Daniel Jaggers, Beaumont Cherry Valley Water District, **Secretary**
Joseph Zoba, Yucaipa Valley Water District, **Treasurer**
Kyle Warsinski, City of Beaumont

Alvarado Smith, **Legal Counsel**
ALDA Inc. in Association with Thomas Harder & Company, **Engineering**
Rogers, Anderson, Malody, and Scott. LLP, **Financial Auditors**

December 2020

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December 2nd, 2020

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

Subject: **Beaumont Basin Watermaster**
Draft Annual Report for Calendar Year 2019

Dear Mr. Vela:

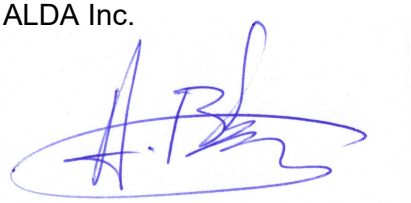
ALDA Inc., in association with Thomas Harder & Co. is pleased to submit to you, as Chairman of the Beaumont Basin Watermaster, a draft of the Beaumont Basin Watermaster Annual Report for Calendar Year 2019. This draft report expands on the earlier format of the annual report by incorporating information previously presented in the biannual Engineering Report. As such, this report summarizes all production, spreading, and storage activities that took place during calendar year 2019. Further, it documents changes in water levels and storage conditions, as well as, an estimate of the Basin Operating Safe Yield for 2019. Finally, the report presents an evaluation of water quality conditions for all domestic wells during the 2015-2019 five-year period and for the Maximum Benefit Monitoring Program.

We will make a formal presentation to the Watermaster Committee during the upcoming Board meeting on December 2nd, 2020. We welcome your review and comments on this report and look forward to answering any questions you may have.

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
du	dwelling unit
FY	fiscal year
IRWMP	Integrated Regional Water Management Program
MCL	Maximum Contaminant Level
NL	Notification Level
NTU	Nephelometric Turbidity Units
OSWDS	On-Site Waste Disposal Systems
Pass Agency	San Gorgonio Pass Water Agency
SGPWA	San Gorgonio Pass Water Agency
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 Sixteenth Annual 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 2019. 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, and storage activities. In addition, a Water Quality section, Section 4, has been added to document water quality of selected compounds at selected wells, as well as, basin wide concentrations for the 2015-19 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).

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. 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.
- A controlled overdraft of the basin is 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 will cease 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 has been 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. An Appropriator shall provide Watermaster with sufficient funds to replace any amount of overproduction that may have occurred over a five-year consecutive period.
- The Watermaster has the authority to enter into Groundwater Storage Agreements with producers 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 shall be 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 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, which were originally adopted June 8, 2004, and subsequently amended in 2006 and 2008. The Rules and Regulations were most recently amended in 2019. 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.

1.4 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

1.5 Watermaster Website

Watermaster website address is www.beaumontbasinwatermaster.org. This website is maintained by the 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.

1.6 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 Board

During the February 6, 2019 regular meeting of the Beaumont Basin Watermaster, the current Watermaster Committee Officers were re-affirmed to their respective positions for 2019 as follows:

- Mr. Art Vela – Chairman
- Mr. George Jorritsma – Vice Chairman
- Mr. Dan Jaggers – Secretary
- Mr. Joseph Zoba – Treasurer

The Watermaster Representatives serving each Appropriative Party at the end of CY 2019 were as follows:

Agency	Representative	Alternate
City of Banning	Art Vela	Luis Cardenas
City of Beaumont	Vacant	Kyle Warsinski
Beaumont Cherry Valley Water District	Daniel Jaggers	Mark Swanson
South Mesa Water Company	George Jorritsma	Dave Armstrong
Yucaipa Valley Water District	Joseph Zoba	Jennifer Ares

Legal counsel during CY 2019 was provided by Alvarado Smith APC, represented by Keith McCullough and Thierry Montoya, while Engineering Services were provided by ALDA Inc., represented by Anibal Blandon, in association with Thomas Harder & Company, represented by Thomas Harder.

2.2 Watermaster Accomplishments and Activities During 2019

2.2.1 Watermaster Meetings

A total of six regular meetings were held during CY 2019 on the following dates:

- February 6, 2019
- June 5, 2019
- October 2, 2019
- March 27, 2019
- August 7, 2019
- December 4, 2019

In addition, there were two Special Meetings conducted on March 6, 2019 and June 25, 2019.

Agendas and approved minutes from 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

During CY 2019, two resolutions were adopted.

Resolution 19-01, a Resolution of the Beaumont Basin Watermaster rescinds Resolution 2017-01 and accepts San Gorgonio Pass Water Agency's Application for Groundwater Storage. This resolution, approved on February 7th, 2018, gives SGPWA the right to store up to 10,000 ac-ft of water in the Beaumont Basin under certain conditions. A copy of the resolution is included under Appendix A.

Resolution 19-02, a Resolution of the Beaumont Basin Watermaster rescinds Section 7 of the Beaumont Basin Watermaster Rules and Regulations in its entirety with a new Section 7 of the Beaumont Basin Watermaster Rules and Regulations as provided in Attachment A of the Resolution and included here in Appendix A.

2.2.3 Items Discussed in 2019

This section is an unofficial summary of topics addressed at Watermaster meetings. The Beaumont Basin Watermaster maintains official meeting minutes that report the items discussed and actions taken during normal and special meetings. Official meeting minutes may be accessed at: www.beaumontbasinwatermaster.org

The following items were discussed during the six regular meetings and two special meetings held in CY 2019 along with their resulting outcome.

Items Discussed During the February 6, 2019 Watermaster Committee Meeting

- Reorganization of the Beaumont Basin Watermaster Committee – Chairman, Vice-Chairman, Secretary, and Treasurer [Memorandum 19-01]. The current Watermaster Committee Officers were re-affirmed to their respective positions for 2019.

- Status Report on Water Level Monitoring throughout the Beaumont Basin through Jan 22, 2019 [Memorandum 19-02]. Engineer Blandon gave a status report of the water level monitoring throughout the basin and indicated that BCVWD Well No. 29 has been added as a monitoring well. He also indicated that the owners at potential monitoring sites are comfortable with having a probe in their wells, but not with signing contracts. One potential new monitoring well is Sharondale Well No. 1, which is operated by Clearwater Operations.

- Status Report on the Development of a Return Flow Methodology for the Beaumont Basin [Memorandum 19-03]. Mr. Ben Lewis, with Thomas Harder and Company, indicated that he has the needed data from BCVWD, YVWD, and the City of Banning ; however, only the information provided by YVWD was tied to APNs. He further indicated that they have begun developing the methodology and expects to provide a draft technical memorandum by the March 27, 2019 meeting.

- Presentation of the Draft 2018 Consolidated Annual Report and Engineering Report [Memorandum 19-04]. Mr. Blandon provided a comprehensive presentation in terms of precipitation in the basin, production by appropriators and overlying users, wastewater discharges from the City of Beaumont, and spreading of imported water through the San Gorgonio Pass Water Agency. However, most of the discussion during the presentation focused on the transfers of water rights from Overlying Parties to Appropriators; specifically, the transfer of water rights from Oak Valley Partners to the YVWD to serve certain parcels in the Beaumont Basin. The main issue of disagreement was related to the timing as to when the transfers of water rights are perfected; input was given by the majority of committee members as well as legal counsel and engineering staff with no agreement reached. The Committee scheduled a special meeting for March 6 at 11:00 AM to continue the discussion on this topic.

- Additional items included in the presentation of the draft report involved a discussion on the basin safe yield as well as water quality issues. Mr. Blandon presented a five-year analysis based on water quality information obtained from the State of California Department of Public Health; analysis of the data concluded that none of the primary state and federal standards were exceeded and that overall the water quality in the basin is good.

Items Discussed During the March 6, 2019 Special Watermaster Committee Meeting

- Discussion Regarding Draft Resolution No. 2019-01 Amending the Judgment at the Riverside Superior Court's Request to Correct a Clerical Error – An Incorrect Reference to "8,610 Acre-Feet" on Judgment, Page 7, Line 26 – Correcting Such to "8,650 Acre-Feet" [Memorandum 19-05]. Legal Counsel Montoya indicated no discussion is warranted; the Resolution has been approved and submitted to the Court.

- Discussion Regarding the 2018 Draft Annual Report and Review of Comments Received by the Consultant [Memorandum 19-06]. Engineer Blandon indicated that some comments were received and would be incorporated into the final report. Mr. Blandon also talked about comments on storage losses and the accounting of return flows and suggested that the Watermaster may consider policies to account for these issues when the time comes. Member Jaggers noted there are many things to work out such as forms that are indicated in the Rules and Regulations but are not readily available. He believes it appropriate to form an Ad Hoc Committee to bring the rules current to today's basin management. The discussion focused on Section 3.4.2 of the report, "Transfers of Overlying Rights for Service by an Appropriator", and centered around the issue of when the transfers become effective. Some members believe that the transfer occurs when

water is delivered to the end users resulting in an annual accounting of water delivered to specific users while other members reasoned that the transfer takes place when the overlyier indicates to the Watermaster that they will forgo this water prior to the actual service taking place. Further discussion ensued about the ambiguity of the perfection of the right. Member Jaggers reiterated the request for a policy with a clear path and meets the intent of the adjudication. Chair Vela suggested the engineer submit the minimum report to the state is the issue of overlying transfers to appropriators is not resolved by the next meeting.

Items Discussed During the March 27, 2019 Watermaster Committee Meeting

- Discussion Overview of the Consolidated Beaumont Basin Watermaster Rules and Regulation [Memorandum 19-07]. Member Zoba presented the current Rules and Regulations document for discussion. Chair Vela and member Warsinski requested a redline version of the document.

- Consideration of Resolution 2019-02 Amending Section 7 of the Rules and Regulations [Memorandum 19-08]. Member Jaggers reiterated the request for an Ad Hoc Committee and noted comments from the City of Beaumont. Members discussed options for the rules and regulations process. Counsel Montoya recommended appointment of an Ad Hoc Committee, to create a draft of amended rules and regulations and to publish for public comment. Counsel recommended no action on Resolution 2019-02; the Committee members voted unanimously to take No Action.

- Status Report on Water Level Monitoring throughout the Beaumont Basin through March 18, 2019 [Memorandum 19-09]. After Engineer Blandon made his presentation on water levels in the basin, member Jorristma requested information on how much water is pumped from the monitoring wells. Mr. Blandon explained that only two of the 16 monitoring wells are pumping wells.

- A Comparison of Production and Allowable Extractions through February 2019 [Memorandum 19-10]. There was no discussion.

- Certification of Groundwater Production and Imported Water Use During Calendar Year 2018 [Memorandum 19-11]. Mr. Blandon explained that the purpose of this certification was to meet reporting requirements to the State of California by April 1, 2019. The report contains information on the total amount of groundwater produced from the Beaumont Basin, the use of imported water, and the estimated change in storage that took place in 2018. Chairman Vela suggested that due to ongoing discussion regarding transfer of overlying rights, the title of the chart should be changed to “Appropriation of Overlying Rights from 2014. Member Warsinski suggested adding the word “unused” to clarify.

Items Discussed During the June 5, 2019 Regular Watermaster Committee Meeting

- Consideration of Resolution 2019-02 Amending Section 7 of the Rules and Regulations of the Beaumont Basin Watermaster [Memorandum 19-12]. Counsel Montoya explained that the Ad Hoc Committee met twice to review the Rules and Regulations regarding

transfer of rights from an overlying party to an appropriative party and how that supply would be earmarked and credited. Mr. Montoya recommended that the item be tabled to allow for additional discussion at the Ad Hoc Committee level to clear inconsistencies in the language of the Resolution. After Chair Vela called for public comment; there was none, the item was tabled.

- Status Report on Water Level Monitoring throughout the Beaumont Basin through May 27, 2019 [Memorandum 19-13]. Engineer Blandon updated the Committee on YVWD Well 34 where the sounding device had been lost and new equipment installed. He further indicated that Oak Valley No. 5 has had inconsistent levels as of late. Mr. Blandon also reported that two new monitoring wells had been added on the western portion of the basin; namely, BCVWD No. 29 and Tukwet B. Chair Vela updated the Committee on Well 15 indicating that the anticipated street project that would have affected the well has been shelved.

- A Comparison of Production and Allowable Extractions through April 2019 [Memorandum 19-14]. Engineer Blandon explained the purpose of the report and Mr. Jaggers noted a correction on the table.

Items Discussed During the June 25, 2019 Special Watermaster Committee Meeting

- Consideration of Resolution 2019-02 Amending Section 7 of the Rules and Regulations of the Beaumont Basin Watermaster [Memorandum No. 19-15]. Chair Vela indicated that this item was tabled at the previous meeting and asked for clarification on transfer and earmarked numbers. Counsel Montoya explained that the Resolution provides that instead of tracking the water by correspondence, it would be tracked by Form 5. Mr. Montoya explained that water is designated as “earmarked” meaning subject to transfer (not transferred yet, remains an overlying right) until it is transferred (put to service); then the overlyier forgoes pumping the water that now has been transferred to the appropriator. He further indicated that there is no time limit for the transfer as long as the development is progressing. Member Zoba noted that the recitals of the Resolution mirror the verbiage in the Judgment while Mr. Montoya indicated that some provisions of the initial Rules and Regulations were removed because they were not consistent with the Judgment. Resolution 2019-02 was adopted unanimously.

Items Discussed During the August 7, 2019 Regular Watermaster Committee Meeting

- Status Report of Water Level Monitoring throughout the Beaumont Basin through July 31, 2019 [Memorandum No. 19-16]. Engineer Blandon reported that no new wells have been added. He reported that levels at the monitoring wells downstream of the Noble Creek spreading grounds have risen substantially; water levels have increase close to 90 feet in the shallow aquifer and over 50 feet in the deep aquifer. He further noted that sudden changes in water level in Tukwet B coincide with the Ridgecrest recent earthquakes. He also explained that hourly maximum levels have been used at BCVWD No. 29 since this is a pumping well with pumping levels close to 55 feet lower than static levels.

- A comparison of Production and Allowable Extractions through June 2019 [Memorandum 19-17]. Engineer Blandon indicated that BCVWD has imported more than 6,000 ac-ft of water bringing their allowable production close to 8,000 ac-ft for the first half of the year; actual production was approximately 4,500 ac-ft or 55 percent of allowable. The City of Banning is at 54 percent of allowable production through June. SMWC and YVWD have not imported water and YVWD has not produced from the basin. Overall, production is approximately 50 percent of allowable production for the first half of the year.

- Return Flow Accounting Methodology [Memorandum 19-18]. Mr. Harder explained the analysis used delivery records with consideration given to parcels that overlap the adjudicated boundary. The results indicated that in Beaumont, based on delivery and WWTP records, 51 percent of the water was used indoors. Chair Vela pointed out that the calculated numbers for Beaumont do not coincide with Banning's where the indoor use has been estimated at 31.5 percent. There was also discussion on the impact of industrial and warehouse use of water as well as consideration for swimming pools and golf courses. Chair Vela suggested that all comments be provided to Mr. Harder and a revised version discussed at the next meeting.

Items Discussed During the October 2, 2019 Regular Watermaster Committee Meeting

- Status Report of Water Level Monitoring throughout the Beaumont Basin through September 22, 2019 [Memorandum 19-19]. Mr. Blandon presented highlights of the written report. Chair Vela asked about the status of Beaumont 15 well.

- A Comparison of Production vs. Allowable Extractions through August 2019 [Memorandum 19-20]. Mr. Blandon presented a comparison of production rights from the basin against actual production.

- Return Flow Analysis – Issues and Comments [Memorandum 19-21]. Mr. Harder indicated that comments have been received from Mr. Jaggers, but he has had no time to prepare a full response. Mr. Harder addressed comments in general related to accounting for indoor/outdoor use and types of water delivery. He also discussed return flow lag time and water quality and indicated that all comments will be incorporated into the next draft.

- Consideration of Change Order No. 1 for Task Order No. 17 for the Development of a Return Flow Methodology for the Beaumont Basin [Memorandum 19-22]. Mr. Harder explained that work in the original scope exceeded estimates by $4,780.00 resulting from having to link consumption from over 10,000 parcels to APNs; a discussion ensued regarding the allocation of cost to the various agencies. The request for Change Order No. 1 was approved with Mr. Jorritsma abstaining since his agency does not serve any parcels in the Beaumont Basin.

- Status Report of the 2018 Annual Report [Memorandum 19-23]. Mr. Blandon indicated that the 2018 annual report could not be completed until proper direction is provided regarding the transfers of water rights from overlying users to appropriators.

Items Discussed During the December 4, 2019 Regular Watermaster Committee Meeting

- Status Report on Water Level Monitoring throughout the Beaumont Basin through November 19, 2019 [Memorandum 19-24]. Engineer Blandon indicated that minimal change in levels has been recorded in the northwest portion of the basin while levels continue to rise downstream of the Noble Creek spreading grounds in both the shallow and deep monitoring wells. He further indicated that water levels at Banning M-8 have decline over 33 feet since 2015 and continue to decline. Mr. Jaggers indicated that BCVWD No. 29 has returned to winter time operation mode.

- A Comparison of Production and Allowable Extractions through October 2019 [Memorandum 19-25]. Mr. Blandon indicated that a significant amount of water (over 11,500 ac-ft) has been imported by BCVWD while the City of Banning has exceeded its production rights and it is currently at 118 percent of allotment. He further indicated that the City of Banning will have to either import additional water or use water from its storage account. Mr. Blandon documented that SMWC is currently at 55 percent while YVWD is at 56 percent of allowable production for the year.

- Independent Accountant's Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster [Memorandum 19-26]. Mr. Zoba presented the annual financial review of the records of the Treasurer. He noted that expenses and revenues have tapered but much of it is based on timing of annual reports and how consultant work rolls over from one fiscal year to the next. The report was received and filed by the Watermaster Committee. A copy of the Financial Audit is included in Appendix C.

- Discussion Regarding Task Order No. 20 with ALDA Inc. for the Preparation of the 2019 Consolidated Annual Report, Estimate of the Basin Safe Yield, Update of the Groundwater Model, and Associated Consulting Services for 2020 [Memorandum 19-27]. Engineer Blandon indicated that the cost for this new task to provide engineering support services in 2020 is the same cost as in the last two years. Task Order No. 20 was approved by a unanimous vote for a sum not to exceed $95,970.00.

- Discussion Regarding Task Order No. 21 with ALDA Inc. for the Installation, Maintenance, and Data Collection of Water Level Monitoring Equipment in 2020 [Memorandum 19-28]. Engineer Blandon explained that this task will provide for the data collection, maintenance of up to 18 wells and reporting to the Watermaster. Task Order No. 21 was approved by a unanimous vote for the sum not to exceed $21,520.00.

- Status of the Preparation of the 2018 Annual Report [Memorandum 19-29]. Engineer Blandon indicated that issues associated with Resolution 2019-02 have been discussed at length in the last several meetings and that they are affecting the completion of the 2018 annual report. He further stated that he would like the Watermaster Committee to provide guidance on this issue so that the draft report can be finalized. There was plenty of discussion between legal counsel and members of the Watermaster Committee on this issue without reaching an agreement. Member Zoba maintained that through the submission of Form 5, all the overlying rights from Oak Valley Partners would be

transferred to YVWD effective October 9, 2018; however, other members disagreed and were of the position that the overlying rights transferred to YVWD should be limited to 180.4 ac-ft for 2018 with the remainder effective in 2019. After much discussion, the Committee voted to instruct Engineer Blandon to complete the 2018 annual report based on the 180.4 ac-ft of overlying rights transferred during 2018.

2.2.3 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 of the Beaumont Basin 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.

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 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 Banning, BCVWD, 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 Gorgonio Pass Water Agency (SGPWA) in mid 2010 and brought for discussion at the summer of 2012. The initial application was rejected because it was determined to be 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 finally approved at the June 7, 2017 regular meeting under Resolution 17-01. The approval of this application allows the SGPWA to store up to 10,000 ac-ft of imported water in the Beaumont Groundwater Basin.

As of December 31, 2019, 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 Gorgonio 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 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, included under

Appendix A of this annual report. 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.

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. A copy of the list has been included with this annual report as Appendix B.

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 2019 operations.

2.6.1 Budget

The budget for Fiscal Year 2019-20 was initially approved at the Feb 5, 2020 Watermaster Committee meeting under Memorandum 20-02. The approved budget provided funding for Administrative expenses in the amount of $246,600.00, an increase of $98,590.00 or 66.6 percent from the final budget for prior year of $148,010.00. The approved budget did not include any funds for Special Projects.

The following table presents a comparison between the final budgets for FY 2017-18, final budget for FY 2018-19, and approved budget for FY 2019-20.

Operating Expense	FY 2017-18 Final Budget	FY 2018-19 Final Budget	FY 2019-20 Approved Budget
Administrative Expenses			
Bank Fees and Interest	$ 80.00	$ 18.00	$ 50.00
Miscellaneous and Meetings	$ 0.00	$ 0.00	$ 250.00
Acquisition/computation & Annual Report	$ 100,000.00	$ 15,078.00	$ 100,000.00
Annual Audit	$ 1,200.00	$ 0.00	$ 1,300.00
Engineering Services	$ 5,000.00	$ 65,313.00	$ 50,000.00
Monitoring and Data Acquisition	$ 23,000.00	$ 44,567.00	$ 50,000.00
Meter Installation and Repair	$ 0.00	$ 0.00	$ 10,000.00
Legal Expenses	$ 37,500.00	$ 23,034.00	$ 25,000.00
Reserve Funding	$ 0.00	$ 0.00	$ 10,000.00
	$ 166,780.00	**$ 148,010.00**	**$ 246,600.00**
Special Project Expenses			
Engineering	$ 0.00	$ 0.00	$ 0.00
Litigation	$ 0.00	$ 0.00	$ 0.00
	$ 0.00	**$ 0.00**	**$ 0.00**
Total Operating Expense	**$ 166,780.00**	**$ 148,010.00**	**$ 246,600.00**

2.6.2 Financial Audit

The Beaumont Basin Watermaster has a financial audit performed on 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 2019, prepared by Rogers, Anderson, Malody, and Scott, LLP, was presented, received and filed as Watermaster under Memorandum No. 19-26 on December 4, 2019. This report is included under Appendix C.

Section 3
Status of the Basin and Administration of the Judgment

The Beaumont Basin Watermaster is responsible for the accounting of groundwater production, recharge of supplemental water, groundwater transfers and storage activities in the Beaumont Basin. Since the inception of the Judgment accounting has been conducted on a fiscal year basis starting on July 1, 2003.

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 Board in early 2013. The annual report for CY 2019 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 17.14 inches over the 100-year period between 1920 and 2019. On the average during this 100-year period, 11.98 inches of precipitation, or 69.9 percent of total, fell during the winter between December and March. Over the last 25 years (1995-2019), precipitation has averaged 14.63 inches of rain which is approximately 85 percent of the 100-year average precipitation. Unconfirmed totals for 2019 were obtained from the County of Riverside for Station 13 and other weather sources resulting in an annual precipitation of 12.11 inches. Is anticipated that this information will be confirmed for inclusion into the final annual report.

Figure 3-1 illustrates annual precipitation at this station for the 25-year reporting period between 1995 and 2019 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 1995-98 period; average precipitation during this period was 21.27 inches or close to 24 percent above the long-term average. Other above average precipitation periods include the 2003-05 period. Conversely, down trending periods indicate periods of below average precipitation as in the 2011-18 period when average precipitation was only 11.23 inches or approximately 66 percent of the 100-year average.

Notwithstanding the significantly above average precipitation recorded in 2019, the Basin has been in a dry period that began in 2011. During the last 10 years, two of the five years with the lowest precipitation ever recorded at Station 13 have occurred; 7.4 inches (lowest ever) in

2013 and 8.07 inches in 2009. 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, close to 25 percent below the 100-year long-term average for the Basin and approximately eight percent below the 25-year precipitation average of 14.63 inches.

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 White Water 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. Afghanistan

3.1.3 Hydrogeology

3.1.3.1 Regional Geologic Context

The Beaumont Basin is located in the San Gorgonio 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 semiconsolidated Quaternary alluvium. Surrounding the alluvial sediments are semiconsolidated 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.

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 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, the BCVWD, the SMWC, and the YVWD. 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.

It should be noted that beginning in CY 2014, the Temporary Surplus is no longer available to the Appropriators as it officially ended after 10 years during Fiscal Year 2013.

Annual production by well for each of the five Appropriative Parties for the CY 2003-2014 period is summarized in Table 3-1A; this table also includes the Temporary Surplus Allocation and the amount of unused production that is eligible for storage for each Appropriator. Monthly production for the last five years of operation (CY 2015-19) are presented in a series of tables starting with Table 3-1B for CY 2015 and continuing on an annual basis through Table 3-1F for CY 2019. 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 2019, Appropriators pumped a combined amount of 14,121.50 ac-ft of groundwater from the Beaumont Basin. Production for the year was 905 ac-ft lower than in 2018, but higher than the annual production for each of the years in the 2015-17 period. Groundwater production in CY 2019 was approximately 1,000 ac-ft higher than the five-year (2015-19) average of 13,137 ac-ft.

Compared to groundwater production totals for CY 2018, production for individual appropriators in CY 2019 was lower. The City of Banning production decreased by four percent while production by BCVWD and SMWC decreased by nine percent each over 2018 values. Conversely, production by YVWD almost tripled in CY 2019 when compared to 2018 extractions.

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 close to 99 percent of the total production by Overlying Parties in CY 2019.

The remaining wells, operated by smaller producers, did not have meters for some or most of 2019 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 Watermaster, an updated water duty method was developed by WEI and it has been used since. The estimate of unmetered production for the CY 2019 Annual Report uses the updated method developed by WEI as detailed in Appendix D.

Similar to the production reported for the Appropriators, a series of tables was developed to report monthly and annual production from the Overlying Parties on a calendar year basis. Starting with Table 3-2A, annual production is documented for CY 2003-14; Table 3-2B through 3-2F summarize monthly production by Overlying well for CY 2015 through CY 2019 respectively. In addition, these tables show their share of the Safe Yield and the amount of unused water for each Overlying Party is shown. It should be noted that these tables have been revised to reflect updated production records from Plantation by the Lake for the 2013-16 Period.

Production by Plantation by the Lake records, during the 2013 to 2016 period, were provided in million gallons; however, research conducted early in 2017 indicated that the number should have been reported in million cubic feet instead. This result in a documented under production by a factor of 7.48 (gallons per cubic foot). Production by this Overlying user continues to be refined and has been confirmed for 2017, 2018, and 2019.

During CY 2019, Overlying Producers produced an estimated 1,771.40 ac-ft; this level of production is approximately 20 percent lower than in CY 2018 and 26 percent lower than in CY 2017. Compared to the five-year average of 2,083.9 ac-ft/yr, Overlying Producers pumped 15 percent less water than the average.

3.2.3 2003-2019 Annual Production Summary

Annual production for all Appropriators and Overlying Parties since 2003 is summarized in Table 3-3A on a calendar year basis for the 2003 to 2010 calendar years while Table 3-3B documents annual production for CY 2011 through CY 2019. It should be noted that production from 2003 only includes production for the second half of the year. Since July 2003, a total of 262,154 ac-ft has been pumped from the Beaumont Basin; an estimated 83.6 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 high of 87.2 percent recorded in CY 2014 and to an all-time high of 88.9 percent in 2019. Over the last five years, production by appropriators has averaged 86.2 percent of total extractions.

Groundwater production peaked in CY 2007 when close to 20,000 ac-ft were pumped from the basin; since, it declined steadily through 2010 to approximately 13,600 ac-ft; however, production during the 2011-14 period increased by 26.1 percent to 17,281 ac-ft. Since 2014, production declined significantly in 2015 by over 4,000 ac-ft and began climbing again through CY 2018. Production in CY 2019 of 15,893 ac-ft was approximately eight percent lower than in CY 2018 and four percent higher than the 2015-19 five-year average. Annual total production by appropriators and overlying parties is depicted in Figure 3-4 along with the potential amount of water allocation to appropriators.

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 recharge 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 2003 on a calendar year basis.

3.3.1 State Water Project Water Recharge

Deliveries of imported water are conducted through the San Gorgonio Pass Water Agency, which is the State Water Contractor for this area. BCVWD's Noble Creek spreading facility located in the vicinity of Beaumont Avenue and Cherry Valley Boulevard, has been until now the primary facility in the Beaumont Basin where imported water can be delivered to recharge the groundwater basin. The location of this spreading facility is depicted in Figure 3-3. In 2019, the 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 when the SGPWA spread close to 260 ac-ft.

The 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 an all-time low of 2,773 ac-ft. Over the last four years, BCVWD has spread close to 50,000 ac-ft of imported water at the Noble Creek facilities. A total of 97,887 ac-ft of imported water have been spread by this agency since CY 2006 as documented in Table 3-4.

The City of Banning began purchasing imported water for recharge at the BCVWD's Noble Creek facility in July 2008 and has since recharged 13,692 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, Banning spread 250 ac-ft of imported water.

In addition to imported water deliveries to BCVWD and the City of Banning at BCVWD's Noble Creek facility, 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 and to the north of the Banning Fault, 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 the SGPWA to the Little San Gorgonio Creek Spreading Ponds began in August 2003; the agency has since recharged a total of 10,508 ac-ft averaging 808 ac-ft/yr. Deliveries in CY 2013, at 881 ac-ft, were less than half of the amount spread in the previous two years. 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, the 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. As part of their application, the SGPWA recently completed the construction of their spreading facilities, as noted earlier, and spread 257.8 ac-ft in 2019 at this location.

3.3.2 Recycled Water Recharge

Prior to March 2010, Beaumont's recycled water from Wastewater Treatment Plant No. 1 was discharged at Discharge Point No. 1 (DP-001) in Cooper's Canyon where it infiltrates into the San Timoteo Management Zone and outside the Beaumont Basin. Starting in March 2010, Beaumont began deliveries of recycled water 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 recycled water discharged at this location reaches and recharges the Beaumont Basin. It should be noted that the City of Beaumont decided to ceased deliveries to DP-007 in the Fall of 2015.

In CY 2019, the City of Beaumont discharged an estimated 4,112 ac-ft of recycled water at DP-001 in Cooper's Canyon. Recycled water discharges were approximately eight percent higher than in CY 2018. Monthly discharges at DP-001 varied slightly from a low 3.59 mgd in July to a high of 3.80 mgd in September; the average for the year was 3.67 mgd. Monthly recycled water 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 Beaumont to receive credit however, Watermaster will need to develop the methodology to compute and credit the New Yield dating back to the Judgment inception in February 2003 or since delivery of flows began, whichever is latest.

3.4 Water Transfers and Adjustments of Rights

Section 7 of the Watermaster Rules and Regulations, as replaced by Ordinance 2019-2 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 document. There are three types of transfers that Watermaster accounts for:

1. Transfer of water rights and/or water in storage between Appropriators

2. Transfer of water rights from Overlying producers to an Appropriator in exchange for water service, and

3. 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 2015-19 five-year period for each user. Annual average groundwater production during this period for all Overlying producers combined was estimated at 2,083.9 ac-ft/yr; representing approximately 31.1 percent of the revised Safe Yield. Individually, none of the Overlying producers produced more than their allowable production rights during this five-year period; California Oak Valley Golf and Resort LLC averaged the highest percentage of their respective allocation at 86.9 percent followed by Plantation by the Lake at 77.5 percent and Sharondale Mesa Owner Association at 66.0 percent. Tukwet Canyon Golf Club followed at an average of 55.6 percent of their Overlying right.

3.4.1 Transfers between Appropriators

According to Section 7.2 of the Rules and Regulations, as replaced under Resolution 2019-02 (See Appendix "A"), 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, the SMWC and the BCVWD entered into a transfer agreement that allows 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 the SMWC estimates the amount of water available for transfer and offers it to the 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. SMWC also transferred 1,500 ac-ft of water to Banning in CY 2007. The purchase agreements and transfers between these agencies are on file with Watermaster.

Water transfers between Appropriators were not reported during CY 2019.

3.4.2 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 based on the initial Safe Yield of 8,650 ac-ft/yr. OVPs rights have been adjusted to 1,398.86 ac-ft 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.

In 2018 Oak Valley Partners transferred a combined total of 180.4 ac-ft in Overlying rights to YVWD upon YVWD's water service commitments to serve certain Project parcels in the Beaumont Basin. In a similar manner, an additional 2.65 ac-ft of former OVP's Overlying rights were transferred to YVWD in early 2019. Transfers over these two years total as follows:

Assigned Overlying-Appropriative Right	Watermaster Notification Date	Earmarked Amount (ac-ft)
Assignment No. 1	3/28/2018	90.94
Assignment No. 2	8/1/2018	59.89
Assignment No. 3	10/3/2018	29.57
Assignment No. 4	1/11/2019	2.65
	Total	183.05

The transfer of the above amount reduced OVP's Overlying rights to 1,215.90 ac-ft/yr for 2019. In the future OVP's rights will remain at this level or adjusted down as additional rights are transferred to YVWD. Starting in 2018, YVWD is free to use its Appropriative rights, as denoted above, by either pumping from the basin, transferring to other Appropriators, or adding to its storage account. Copies of the letter sent by YVWD in calendar year 2019 notifying the Beaumont Basin Watermaster Committee of the above transfers are included in Appendix E.

3.4.3 Allocation of Unused Overlying Water

Section 7.3 of the Rules and Regulations, as replaced under Resolution 2019-02 (See Appendix "A"), 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 of 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 of 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 has 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 2019 were based on unused production from Overlying Users in CY 2014. 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 2019 . While groundwater production by Overlying Users has decreased by over 40 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 to slightly over 4,600 ac-ft/yr 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 2014, estimated at 4,481 ac-ft, is allocated to Appropriators during CY 2019. Unused Overlying production during CY 2019, adjusted by reductions on OVP's rights, is estimated at 4,746 ac-ft. This amount would be allocated to Appropriators during CY 2024.

3.5 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 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 develop a methodology to adjust storage accounts and their corresponding losses.

3.5.1 Annual Storage Consolidation

Consistent with the new reporting format to document extractions, spreading and other groundwater activities on a calendar year basis, Table 3-8 represents the consolidation of

each Appropriator's storage account from CY 2003 through CY 2019. This table includes annual production by Appropriator, their share of Temporary Surplus, Appropriative rights, supplemental water recharge in its various forms, transfers between Appropriators, potable deliveries to parcels previously owned by Overlying Users, and transfers of unused water from Overlying Users. At the end of 2018, an overall total of 113.295.50 ac-ft of water were stored in the Basin for future use; this total increased in CY 2019 by 5,911.50 ac-ft to a cumulative total of 119,207.00 ac-ft. Increased spreading of imported water by BCVWD and the City of Banning along with newly acquired Appropriative rights by YVWD were the primary reasons for the increase in storage. Despite of the expiration of the Temporary Surplus allocation at the end of CY 2013, the amount of water in storage at the end of CY 2019 was 18,394 ac-ft higher. The amount of water in storage by party at the beginning and end of CY 2019 is presented below. Figure 3-5 compares the amount of water in storage to the storage limit for each party with storage accounts

Agency / Party to the Judgment	Calendar Year 2019 (ac-ft)		
	Beginning	Ending	Change
City of Banning	52,320.1	51,917.9	-402.2
BCVWD	34,793.7	39,142.1	4,348.5
City of Beaumont	0.0	0.0	0.0
South Mesa Water Company	9,559.0	9,787.5	228.6
Yucaipa Valley Water District	16,622.8	18,101.6	1,478.8
Morongo Band of Mission Indians	0.0	0.0	0.0
San Gorgonio Pass Water Agency	0.0	257.8	257.8
TOTAL in storage	**113,295.5**	**119,207.0**	**5,911.5**

3.6 Changes in Groundwater Levels in the Beaumont Basin

3.6.1 Analysis of Groundwater Level Changes

Changes in groundwater flow and groundwater levels between 2018 and 2019 were evaluated using a calibrated groundwater flow model that was previously developed to reevaluate the Safe Yield of the Beaumont Basin (TH&Co, 2015) and refined in May 2016 (TH&Co, 2016). For this analysis, the existing calibrated model was updated with groundwater pumping, recharge, and groundwater levels through the end of 2019. A model-generated groundwater contour map was created for December 2019 and compared to the corresponding map for December 2018 in order to evaluate changes in groundwater flow patterns and basin-wide changes in groundwater levels. The model-generated groundwater contour maps for 2018 and 2019 are shown on Figures 3-6 and 3-7, respectively.

Groundwater flow direction and gradient within the Beaumont Basin varies depending on location with respect to a groundwater flow divide which occurs in the center of the basin approximately coincident with the Noble Creek drainage. In the western portion of the basin, groundwater generally flows toward a groundwater depression near BCVWD Well 29 or west towards 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 2018 and 2019.

Basin-wide groundwater level trends in the Beaumont Basin were evaluated based on hydrographs from eights key wells and the groundwater level change map developed by subtracting the 2018 groundwater surface from the 2019 groundwater surface. The total change in storage between the Fall 2018 and the Fall 2019 is shown in Figure 3-8. In the northwest portion of the basin (YVWD 34 and Singleton Ranch 7), groundwater levels remained stable in CY 2019. At Tukwe t Canyon Golf Club C, although groundwater levels had been steadily declining between 2003 and 2018, they were relatively stable between December 2018 and December 2019. When evaluated on a long-term basis, groundwater levels in wells in the western portion of the basin have shown a general long-term decline since approximately 2005.

As shown on Figure 3-9, groundwater levels in the north central portion of the basin were relatively stable or increasing in the vicinity of the Noble Creek Artificial Recharge facility. Groundwater levels in BCVWD NC-4D, located on the center of the recharge facility rose approximately 10 ft between December 2018 and December 2019 (see Figure 3-8).

In the south-central portion of the basin, groundwater levels at Oak Valley No. 1 continue to decline in 2019 by approximately 13 ft., but started to recover at the end of the year. At BCVWD Well No. 2, groundwater levels have been steadily declining since April 2019. At Banning Well C-4 (southeast Beaumont Basin), groundwater levels are highly variable and likely influenced by groundwater pumping. As judged by the highest peaks in the hydrograph, the overall groundwater level trend at this well has been downward from approximately 2016.

Groundwater levels in the northeast portion of the basin (USGS Highland Springs Monitoring Well - 335714116565002) have been trending upward since 2010.

3.6.2 Analysis of Change in Groundwater Storage

Basin-wide change in groundwater storage between December 2017 and December 2018 was analyzed as a function of the difference in groundwater levels across the basin and the specific yield of the aquifer sediments. Groundwater level change across the basin was analyzed using the following procedure:

1. The December 2018 and 2019 model-generated groundwater contour maps were each converted into three-dimensional raster surfaces.
2. The basin was discretized into 100-ft by 100-ft grid cells.
3. Attributes were assigned to each grid cell including groundwater level change and specific yield.

4. The resulting attribute table was processed in a Geographic Information System (GIS) for calculating the change in storage.

The specific yield distribution used for the analysis was obtained from the calibrated groundwater flow model used to evaluate the Safe Yield of the Beaumont Basin, as summarized in TH&Co (2015).

Results of the analysis show an increase in groundwater storage within the adjudicated basin of approximately 2,268 ac-ft during this one-year period. The model may be underestimating the positive storage change in the Noble Creek Recharge area. Most of the western area showed decreases in groundwater in storage

3.7 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 overlyer 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 2019 was 15,893 ac-ft (see Table 3-3). Total artificial recharge in calendar year 2019 was 14,153 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 Gorgonio Creek facility 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 in this analysis. The period of time over which the OSY is evaluated is one year. The resulting OSY is estimated as:

$$OSY = \frac{15{,}893 + 2{,}268 - 14{,}153}{1} = 4{,}008 \text{ ac-ft}$$

It is emphasized that the OSY, as presented herein, is based on one year of 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 will be reevaluated again in 2023.

It is noted that the change in groundwater storage used to estimate the annualized Safe Yield is based on a calibrated model, as described herein. As additional hydrogeological data are collected and incorporated into the model, it can be refined to produce more representative groundwater storage change estimates. It is also noted that there are a number of data limitations that could impact the OSY estimate. These limitations include:

- Accuracy of Overlyer Production Data – Production data from many of the Overlying Parties is not metered but is estimated based on a water duty method (Wildermuth Environmental, 2012). In addition to inherent limitations in this methodology, there are, in some cases, discrepancies between groundwater production estimated using the water duty method and production reported by individual parties to the California State Water Resources Control Board. Resolution of Overlyer Production is anticipated to affect the OSY (plus or minus) on the order of hundreds of ac-ft (not thousands).

- Change in Storage Calculation – Although groundwater storage change estimates will always have inherent uncertainty, it is possible to develop more representative results through collection and analysis of additional data. These data include:

    - ✓ Static groundwater levels from dedicated non-pumping wells. There is evidence that groundwater levels measured in some wells had not recovered fully between pumping cycles in the w ell and were not, therefore, representative of true static conditions. This can be addressed by waiting longer after pumping to collect groundwater levels or constructing/designating non-pumping groundwater monitoring wells in strategic areas.
    - ✓ Measurement of surface water flow in selected drainages, hydrogeological data near Noble Creek and San Timoteo Creek, and hydrogeological analysis of faults in the basin to help achieve a better calibrated model, resulting in more accurate groundwater head distributions. Bettering our understanding of the hydrogeology of this area will help improve the accuracy of the model and its output.

3.8 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 revision changing the reporting of Watermaster activities from a fiscal year basis to a calendar year basis

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. 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.
- Watermaster has not enforced the submittal of notices of transfers prior to accounting for said transfers as defined in the new Section 7, as replaced under Resolution 2019-02, of the Rules and Regulations.

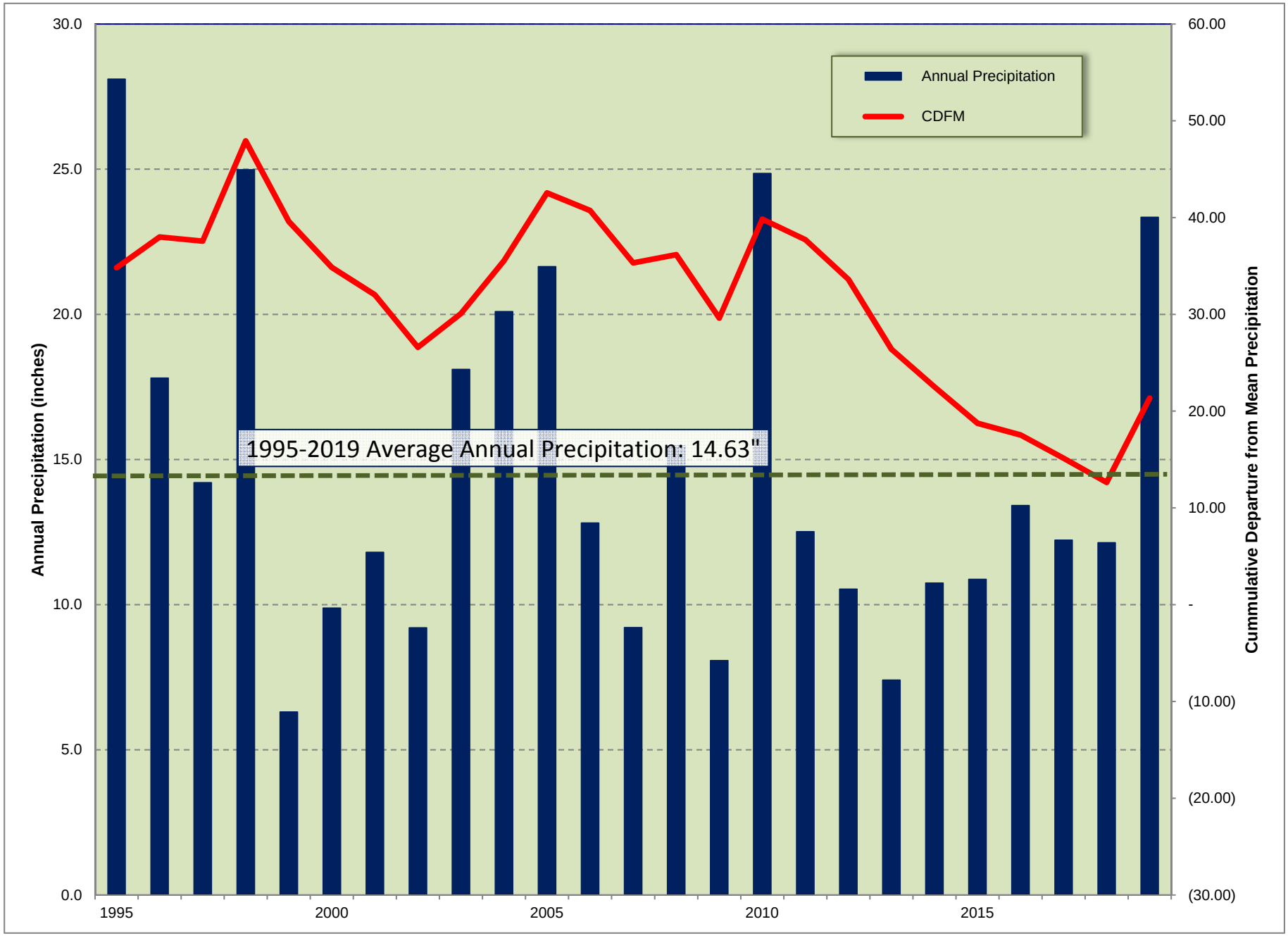
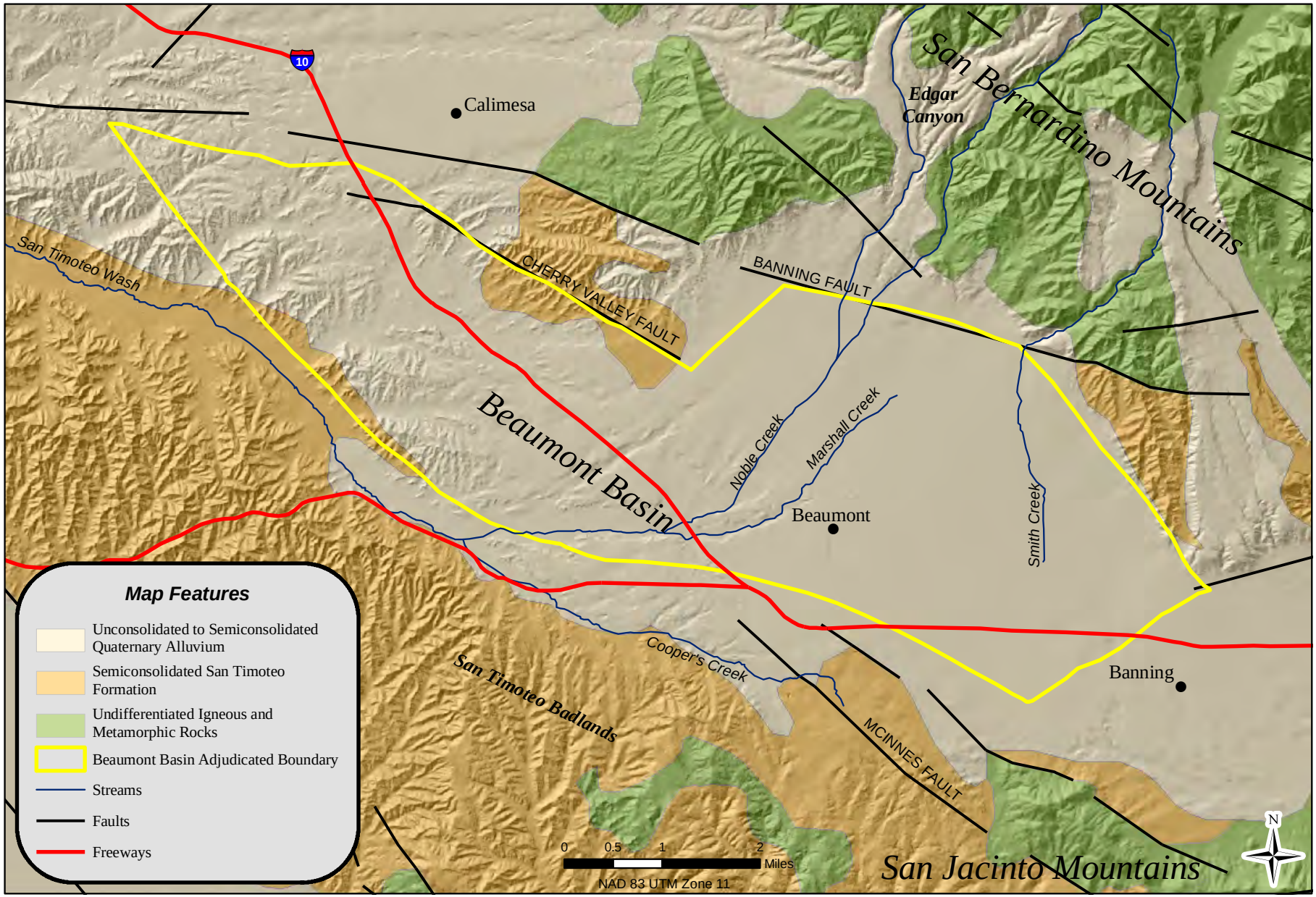


Figure 3-1
Annual Precipitation with Cummulative Departure from the Mean (1995-2019)



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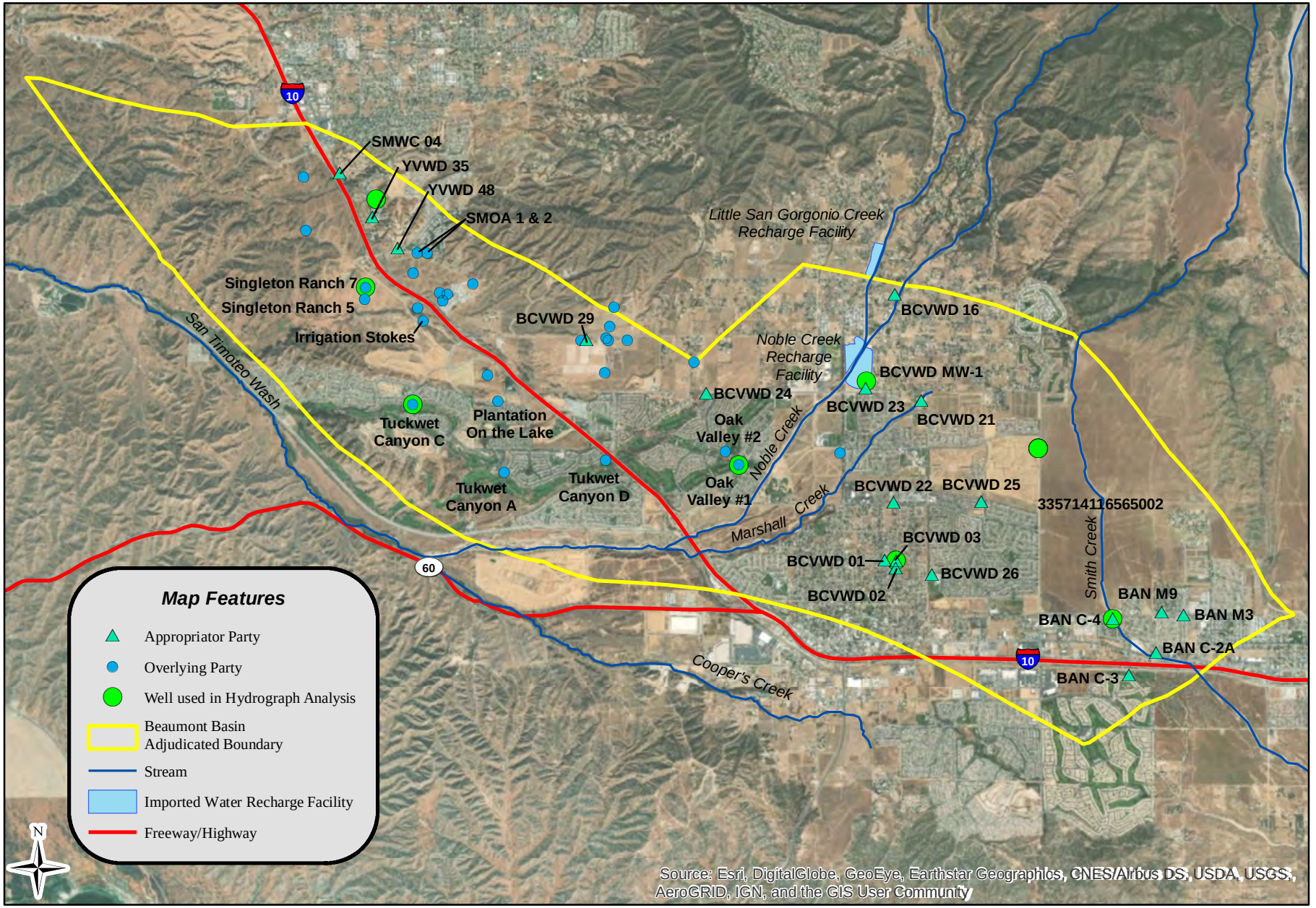
Thomas Harder & Co.
Groundwater Consulting

Geology of the Beaumont Basin

Figure 3-2



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0 0.5 1 2 Miles

NAD 83 UTM Zone 11

Well Locations in the Beaumont Basin

Figure 3-3

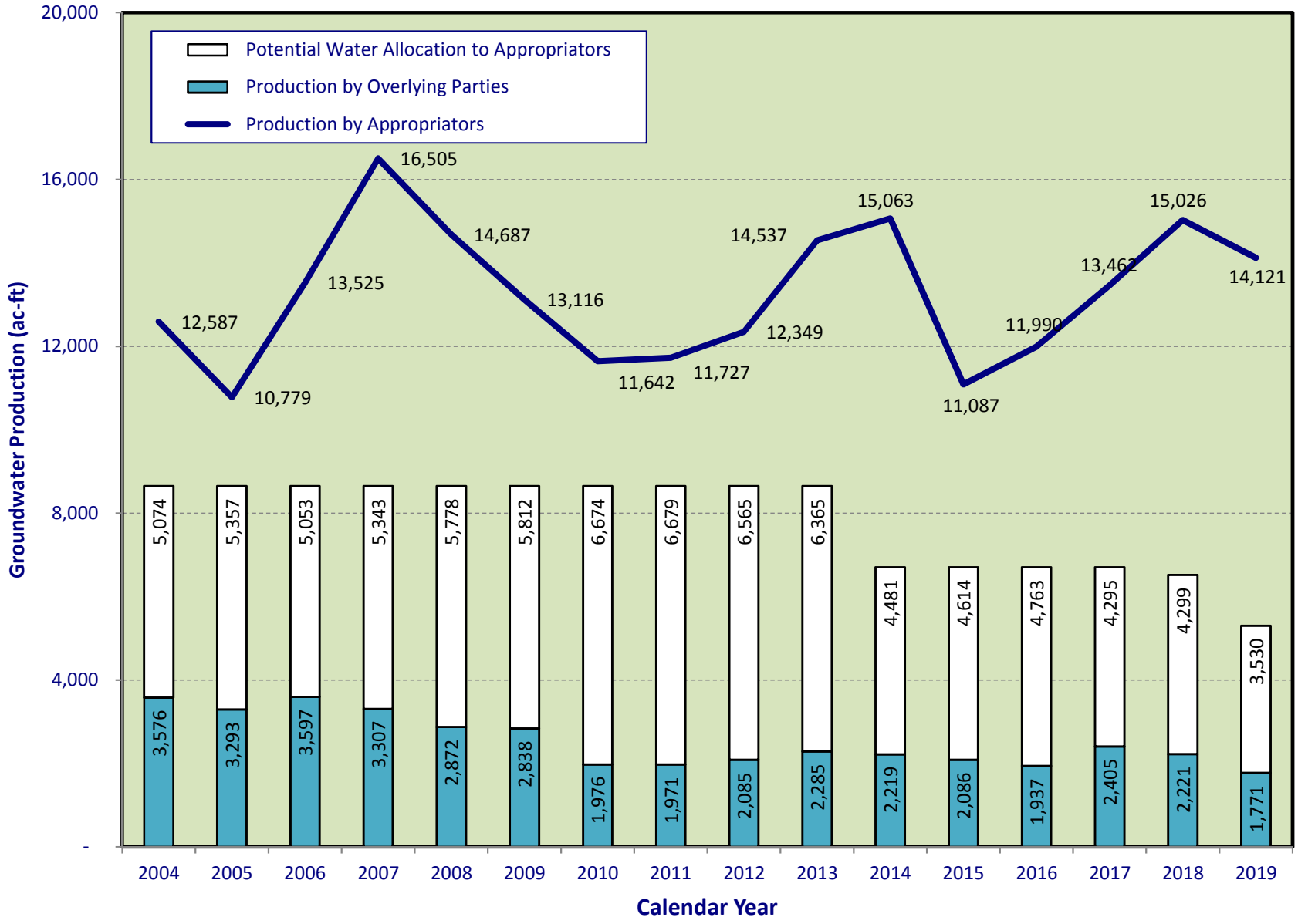


Figure 3-4
Annual Production by Appropriators and Overalying Users (2004-19)

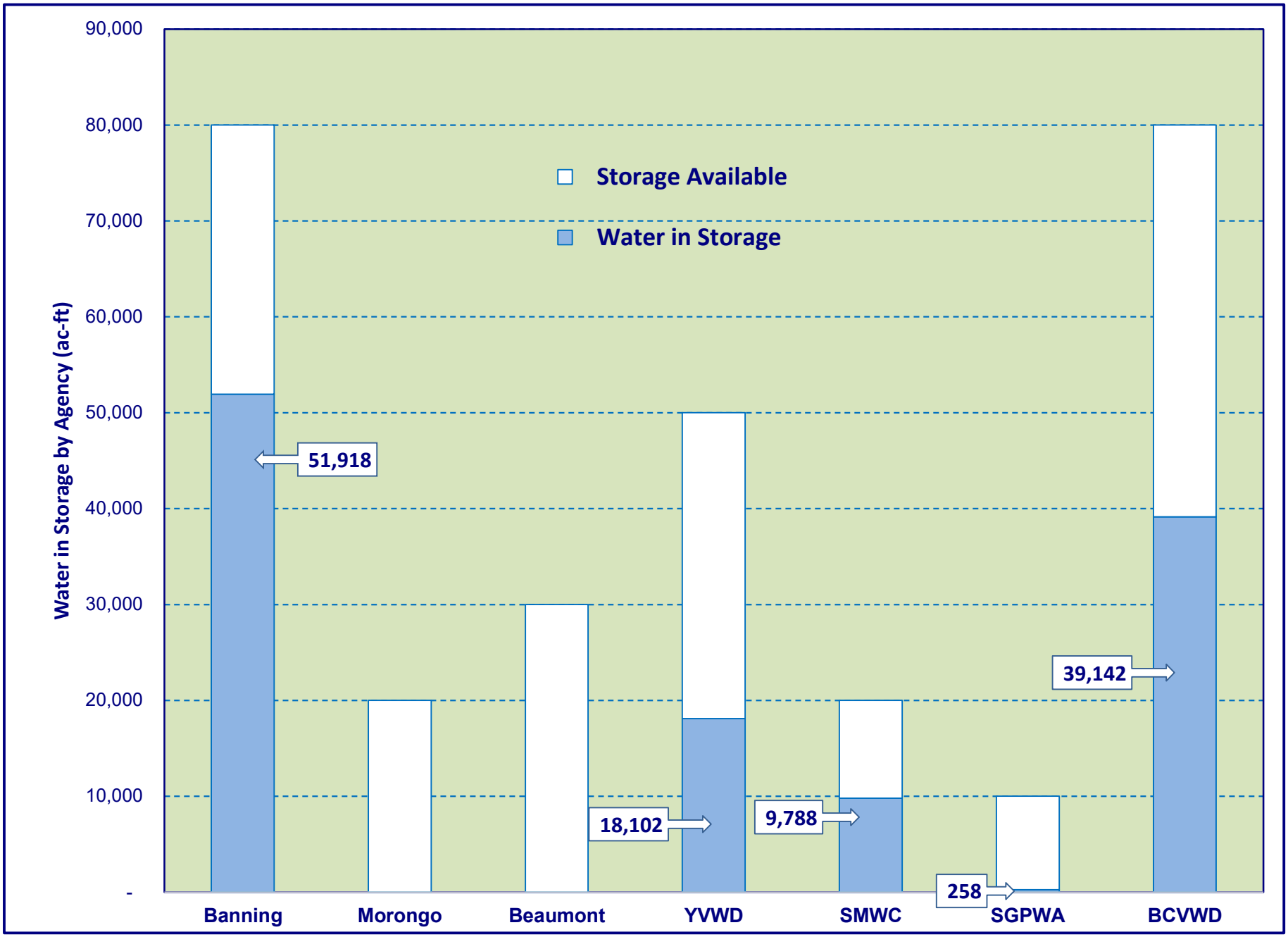
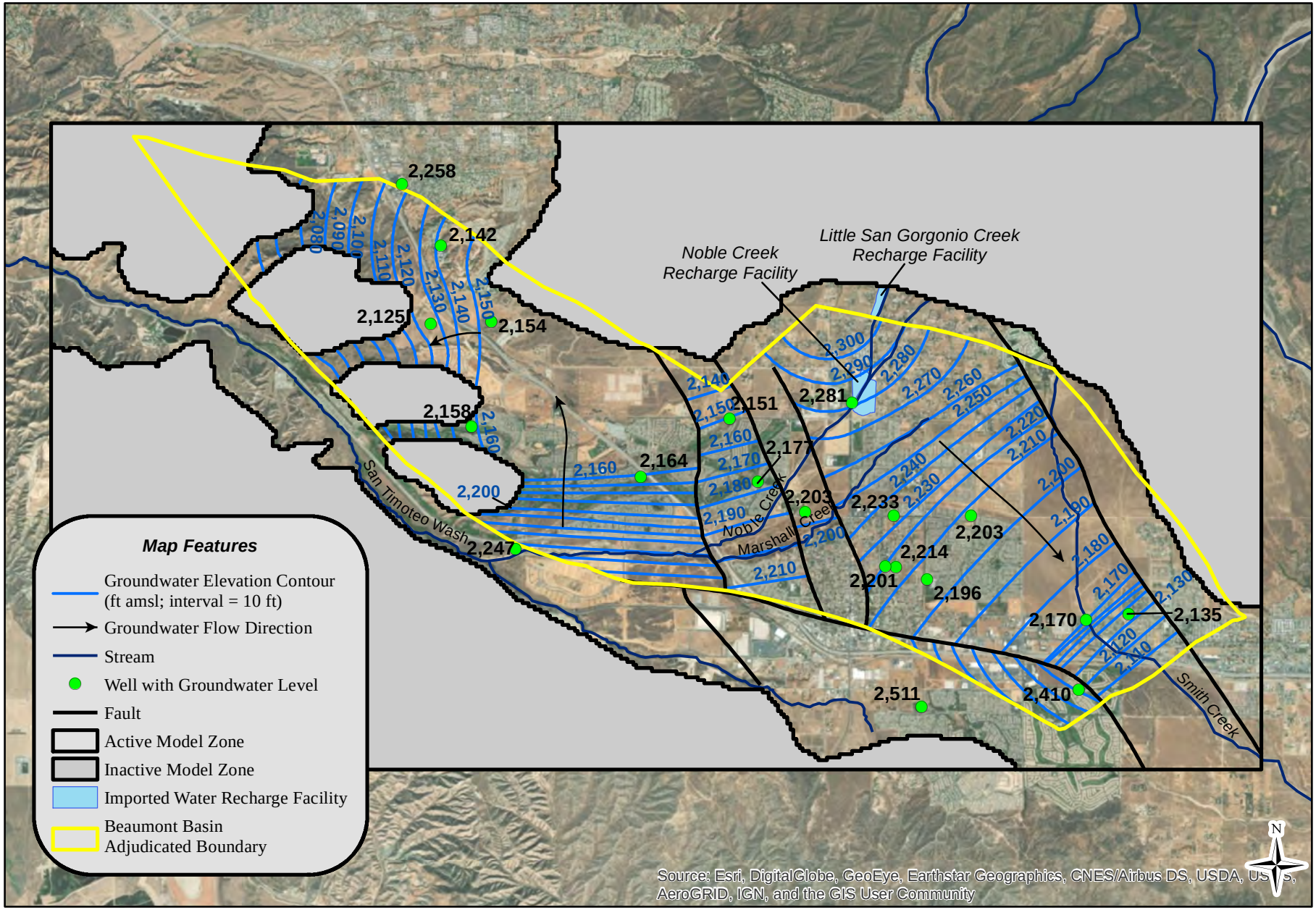


Figure 3-5
Groundwater Storage by Agency/User as of 2019



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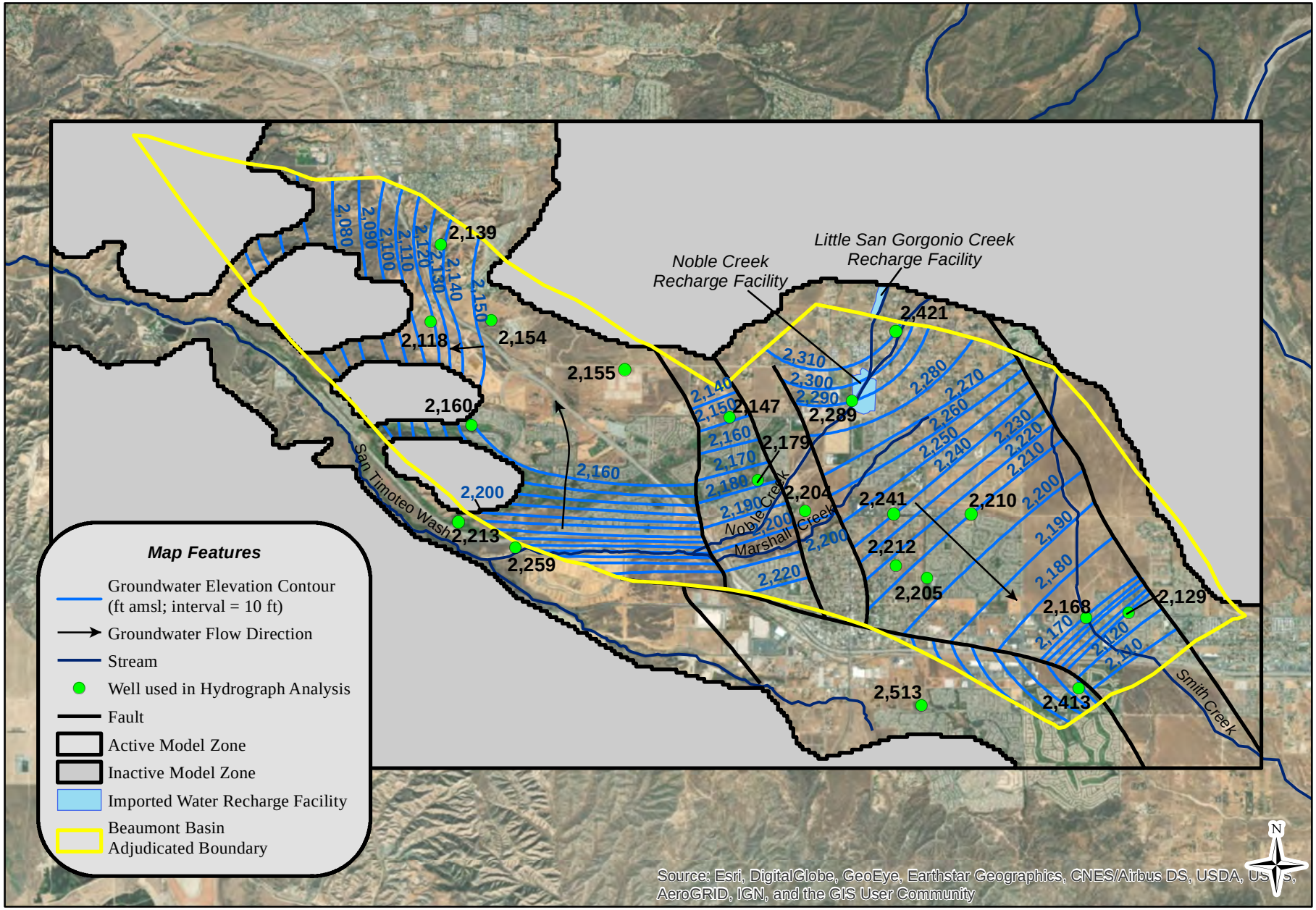
0 0.5 1 2 Miles

NAD 83 UTM Zone 11

Groundwater Elevation Contours in the Beaumont Basin - December 2018

Figure 3-6



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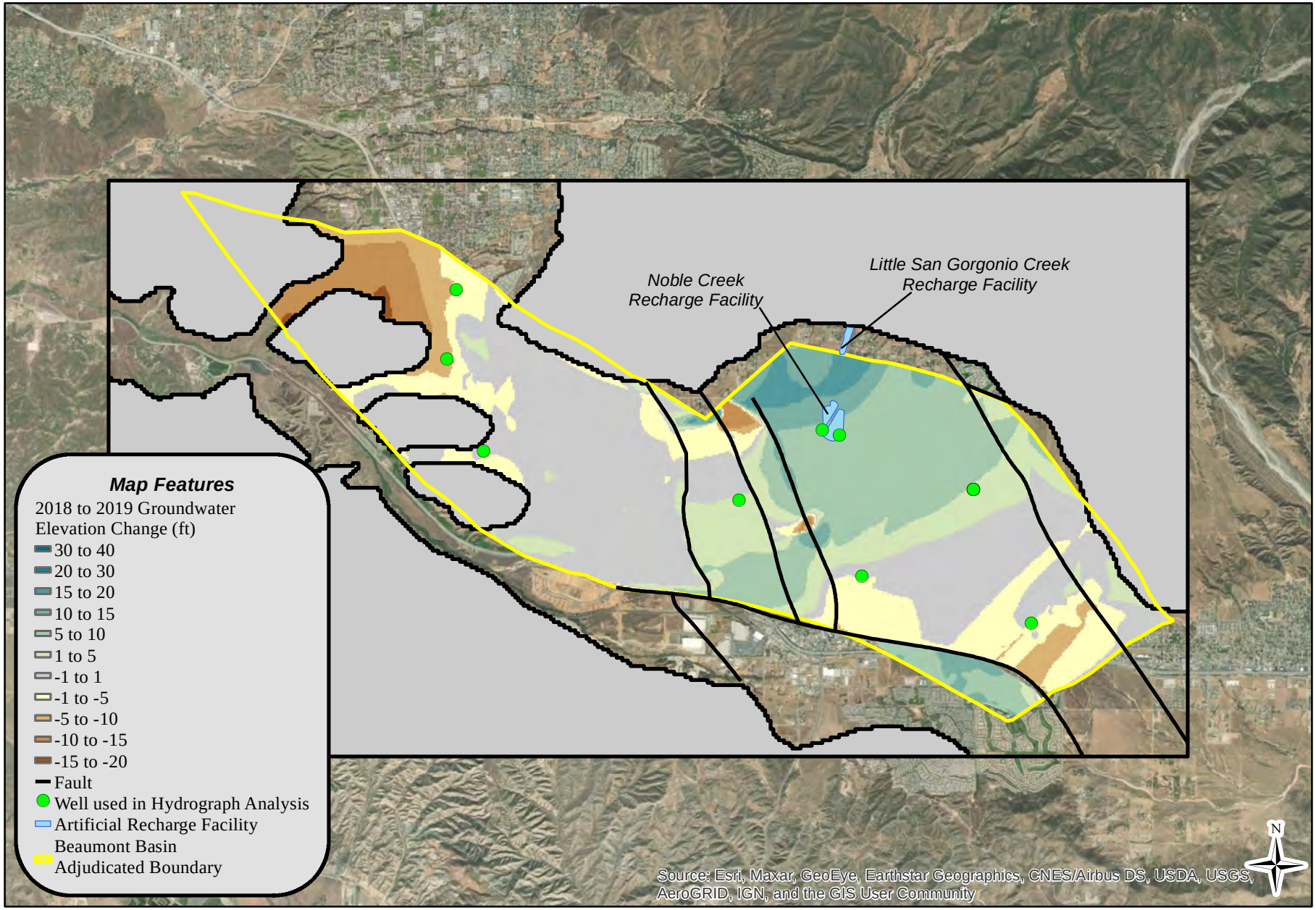
0 0.5 1 2 Miles
NAD 83 UTM Zone 11

Groundwater Elevation Contours in the Beaumont Basin - December 2019

Figure 3-7



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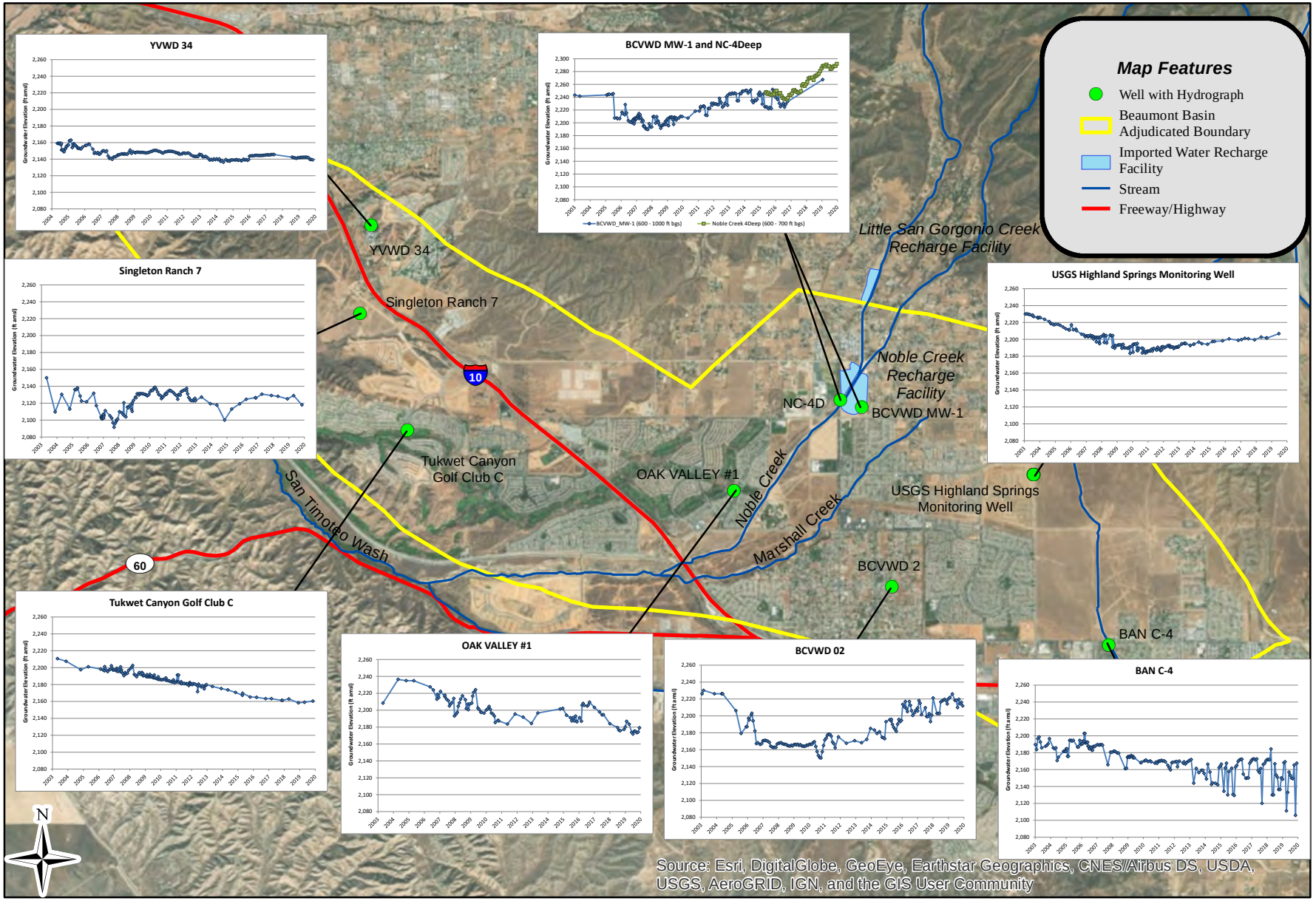
0 0.5 1 2
Miles
NAD 83 CA State Plane Zone 6

Change in Groundwater Elevation 2018 - 2019

Figure 3-8



Alda, Inc. *in association with*
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Groundwater Consulting

0 0.5 1 2
Miles

NAD 83 UTM Zone 11

Groundwater Level Trends at Key Wells

Figure 3-9

Table 3-1A

Appropriator Producer - Summary of Annual Production (2003 to 2014)

Owner & Well Name	Water Production by Well (ac-ft/yr) [1]											
	2003 [2]	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Banning, City of		**Temporary Surplus Allocation: 5,029 ac-ft/yr for the 2003-13 Period**										
Well C2-A	619.2	710.7	0.4	6.8	288.1	382.3	119.8	26.8	32.5	13.1	115.5	530.5
Well C3	517.7	1,026.6	521.2	235.3	511.6	552.5	733.0	843.0	776.6	607.9	626.7	526.8
Well C4	448.3	1,135.7	387.8	276.8	673.9	664.3	472.6	51.4	197.5	73.0	858.5	857.7
Well M3	525.7	169.8	532.8	671.9	726.0	583.3	294.8	80.0	335.1	344.2	499.9	670.0
Well M9	63.3	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
From BCVWD [3]	0.0	354.5	366.4	636.7	572.9	751.3	474.8	142.5	0.0	0.0	0.0	0.0
Annual Production	**2,174.2**	**3,397.3**	**1,808.6**	**1,827.5**	**2,772.6**	**2,933.6**	**2,095.0**	**1,143.6**	**1,341.7**	**1,038.3**	**2,100.7**	**2,585.1**
Eligible for Storage [4]	340.3	1,631.7	3,220.4	3,201.5	2,256.4	2,095.4	2,934.0	3,885.4	3,687.3	3,990.7	413.8	0.0
Beaumont Cherry Valley Water District		**Temporary Surplus Allocation: 6,802 ac-ft/yr for the 2003-13 Period**										
Well 1	5.9	978.3	1,244.2	1,149.1	1,283.8	976.9	894.1	809.1	461.7	93.9	294.9	6.9
Well 2	960.2	1,628.2	117.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 3	675.1	936.0	841.6	749.7	1,357.3	1,310.2	1,139.5	775.6	535.6	716.6	789.2	1,281.8
Well 16	554.6	1,103.7	735.6	537.7	348.3	414.9	452.0	11.9	153.8	255.0	360.8	182.2
Well 21	832.8	1,252.5	2,299.5	1,996.3	2,424.7	2,446.1	1,784.1	8.7	1,473.3	2,035.0	2,141.1	2,560.7
Well 22	483.3	1,125.3	405.7	1,062.6	1,056.8	1,105.3	265.1	381.7	95.1	514.7	358.9	1.0
Well 23	0.0	204.3	1,747.9	1,963.9	3,018.3	2,491.7	982.7	1,930.4	982.1	854.6	787.3	1,081.0
Well 24				2,231.7	2,467.1	2,093.1	2,045.4	2,199.6	2,045.7	1,764.1	1,526.5	1,066.7
Well 25						127.6	1,060.7	1,300.4	1,188.6	1,680.9	2,033.4	2,386.8
Well 26						495.9	1,187.9	1,312.2	1,435.3	1,280.9	1,257.9	521.9
Well 29							797.1	834.4	1,060.3	966.1	1,547.3	1,716.5
To Banning [3]	0.0	-354.5	-366.4	-636.7	-572.9	-751.3	-474.8	-142.5	0.0	0.0	0.0	0.0
Annual Production	**3,511.9**	**6,873.9**	**7,025.6**	**9,054.1**	**11,383.3**	**10,710.5**	**10,133.9**	**9,421.3**	**9,431.3**	**10,162.0**	**11,097.4**	**10,805.5**
Eligible for Storage [4]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Mesa Water Company		**Temporary Surplus Allocation: 1,996 ac-ft/yr for the 2003-13 Period**										
3rd No. 4 Well	223.2	482.5	663.2	616.0	665.8	470.9	382.2	405.0	419.9	448.5	308.4	473.7
Annual Production	**223.2**	**482.5**	**663.2**	**616.0**	**665.8**	**470.9**	**382.2**	**405.0**	**419.9**	**448.5**	**308.4**	**308.4**
Eligible for Storage [4]	774.8	1,513.5	1,332.8	1,380.0	1,330.2	1,525.2	1,613.8	1,591.0	1,576.1	1,547.5	689.7	0.0
Yucaipa Valley Water District		**Temporary Surplus Allocation: 2,173 ac-ft/yr for the 2003-13 Period**										
Well 35	58.9	226.3	117.5	220.0	163.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	1,103.5	1,607.4	1,163.7	1,807.2	1,519.1	568.8	504.4	672.4	534.1	700.1	1,030.8	1,198.5
Annual Production	**1,162.4**	**1,833.7**	**1,281.3**	**2,027.3**	**1,682.9**	**572.0**	**504.4**	**672.4**	**534.1**	**700.1**	**1,030.8**	**1,198.5**
Eligible for Storage [4]	0.0	339.3	891.7	145.7	490.1	1,601.0	1,668.6	1,500.6	1,638.9	1,472.9	55.7	0.0
Annual Production	**7,071.7**	**12,587.4**	**10,778.6**	**13,524.9**	**16,504.6**	**14,687.0**	**13,115.6**	**11,642.3**	**11,727.1**	**12,348.9**	**14,537.2**	**14,897.4**
Eligible for Storage	**1,115.1**	**3,484.5**	**5,445.0**	**4,727.2**	**4,076.7**	**5,221.5**	**6,216.4**	**6,977.0**	**6,902.3**	**7,011.1**	**1,159.2**	**0.0**

1.- Calendar Year Production. All values rounded and subject to revision based on receipt of more accurate information.

2.- 2003 Production only includes from July to December to account for first half of Fiscal Year 2004 Production.

3.- Pursuant to Part I, Paragraph 3 B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster).

4.- Volume of water available for storage is equal to the positive difference between the temporary surplus allocation and the volume of groundwater produced by each agency. Temporary surplus based on 16,000 ac-ft/yr allocated from Fiscal Year 2004 to Fiscal Year 2013. Annual allocation is as follows: a) City of Banning, 5,029 ac-ft/yr, b) Beaumont Cherry Valley Water District, 6,802 ac-ft/yr, c) South Mesa Water Company, 1,996 ac-ft/yr, and d) Yucaipa Valley Water District, 2,173 ac-ft/yr. Allocations for 2003 and 2013 are based on 50 percent of the annual allocation to acount for half of the year only. There is no temporary allocation after 2013.

Table 3-1B

Appropriator Producer - Summary of Production for Calendar Year 2015 (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	3.8	13.0	55.3	3.3	2.0	1.7	3.2	2.6	28.2	4.6	0.4	0.5	118.6
Well C3	1.7	-1.4	35.3	41.0	22.9	59.5	43.9	60.0	38.3	26.5	50.9	11.6	390.2
Well C4	3.2	2.7	7.5	1.4	5.1	94.0	100.4	89.4	55.1	103.0	69.9	39.9	571.8
Well M3	0.1	10.1	58.3	88.6	91.9	84.8	94.2	83.6	53.8	1.2	18.1	13.1	597.7
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]	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	**8.8**	**24.5**	**156.5**	**134.2**	**122.0**	**240.0**	**241.7**	**235.6**	**175.3**	**135.2**	**139.3**	**65.1**	**1,678.3**
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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 16	5.6	24.4	49.7	75.3	81.7	83.1	72.5	60.3	51.4	73.6	57.0	41.8	0.0
Well 21	166.9	184.6	230.4	218.9	185.3	218.2	216.1	224.9	200.5	204.2	192.8	191.9	0.0
Well 22	40.0	108.3	30.6	86.1	7.5	74.6	128.2	116.1	121.1	55.5	13.4	3.0	0.0
Well 23	184.7	121.3	199.1	246.6	232.9	267.5	261.9	241.3	216.7	226.2	167.1	143.9	0.0
Well 24	54.6	5.7	97.1	69.0	64.7	179.4	124.6	106.8	60.1	24.5	49.4	27.3	0.0
Well 25	0.0	61.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 26	16.8	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 29	80.4	95.7	102.6	113.2	112.0	156.7	155.7	163.3	151.3	138.4	114.5	93.0	0.0
Egg Ranch Well	10.5	8.1	7.1	15.1	0.0	34.0	6.8	14.9	25.3	0.0	17.3	0.5	0.0
To Banning [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
Subtotal	**559.6**	**609.2**	**727.4**	**824.2**	**684.2**	**1,013.4**	**965.6**	**927.5**	**826.4**	**722.4**	**611.4**	**501.5**	**8,972.8**
South Mesa Water Company													
3rd No. 4 Well	20.10	19.95	21.55	27.08	21.72	36.95	34.27	37.80	28.89	27.91	21.03	19.90	317.2
Subtotal	**20.1**	**20.0**	**21.6**	**27.1**	**21.7**	**37.0**	**34.3**	**37.8**	**28.9**	**27.9**	**21.0**	**19.9**	**317.2**
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	7.5	10.0	43.0	12.8	4.3	5.8	6.1	20.4	3.4	0.0	0.1	5.8	119.2
Subtotal	**7.5**	**10.0**	**43.0**	**12.8**	**4.3**	**5.8**	**6.1**	**20.4**	**3.4**	**0.0**	**0.1**	**5.8**	**119.2**
Total	**596.0**	**663.6**	**948.6**	**998.3**	**832.2**	**1,296.2**	**1,247.7**	**1,221.3**	**1,034.0**	**885.5**	**771.9**	**592.3**	**11,087.4**

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

(2) - Pursuant to Part I, Paragraph 3 B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster).

Table 3-1C

Appropriator Producer - Summary of Production for Calendar Year 2016 (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	4.1	0.7	0.2	0.2	1.9	17.4	32.9	30.1	1.1	2.0	0.0	3.5	94.2
Well C3	15.5	21.9	0.2	5.8	20.1	50.0	50.9	70.6	55.5	23.0	3.0	1.5	317.8
Well C4	25.5	0.9	12.0	8.3	11.8	92.8	121.5	121.2	101.9	91.9	14.2	0.5	602.3
Well M3	0.4	0.4	0.0	0.4	22.3	92.9	95.7	95.8	90.3	58.4	1.7	0.1	458.5
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]	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	**45.4**	**23.9**	**12.5**	**14.8**	**56.0**	**253.0**	**301.0**	**317.7**	**248.8**	**175.3**	**18.8**	**5.5**	**1,472.7**
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	0.0
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	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 16	68.6	67.5	61.8	66.6	80.2	75.0	91.4	74.0	37.7	70.1	47.9	20.8	761.5
Well 21	221.1	196.3	223.2	201.2	234.2	246.1	245.0	295.8	258.9	225.3	193.1	153.3	2,693.3
Well 22	0.0	2.6	0.0	0.0	40.5	111.8	144.7	177.7	164.2	155.8	67.5	7.0	871.8
Well 23	19.9	85.8	113.9	152.0	213.6	250.9	273.2	257.9	228.1	228.1	160.6	153.7	2,137.8
Well 24	30.4	48.9	19.1	1.5	0.0	188.0	241.6	216.5	145.8	38.6	104.9	62.2	1,097.3
Well 25	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 26	23.3	65.8	54.6	74.6	101.9	123.3	151.8	293.5	25.1	99.6	82.8	31.7	1,127.9
Well 29	77.3	101.7	98.7	104.3	91.7	141.6	198.7	36.8	181.8	89.9	183.7	84.2	1,390.4
Egg Ranch Well	11.6	8.4	2.6	7.0	3.1	11.1	7.4	11.2	11.4	0.2	2.7	3.0	79.8
To Banning [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
Subtotal	**452.1**	**577.0**	**573.9**	**607.2**	**765.2**	**1,147.9**	**1,353.7**	**1,363.4**	**1,052.9**	**907.6**	**843.2**	**515.9**	**10,159.8**
South Mesa Water Company													
3rd No. 4 Well	16.9	21.9	23.3	24.7	28.1	38.4	47.1	45.6	37.6	27.9	23.6	17.6	352.6
Subtotal	**16.9**	**21.9**	**23.3**	**24.7**	**28.1**	**38.4**	**47.1**	**45.6**	**37.6**	**27.9**	**23.6**	**17.6**	**352.6**
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	0.7	0.7	1.0	0.0	0.0	1.4	0.0	0.0	0.9	0.0	0.0	0.0	4.6
Subtotal	**0.7**	**0.7**	**1.0**	**0.0**	**0.0**	**1.4**	**0.0**	**0.0**	**0.9**	**0.0**	**0.0**	**0.0**	**4.6**
Total	**515.0**	**623.5**	**610.6**	**646.6**	**849.3**	**1,440.7**	**1,701.9**	**1,726.7**	**1,340.2**	**1,110.8**	**885.6**	**539.0**	**11,989.7**

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

(2) - Pursuant to Part I, Paragraph 3 B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster).

Table 3-1D

Appropriator Producer - Summary of Production for Calendar Year 2017 (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	0.8	0.3	0.8	0.3	0.0	4.6	3.8	2.0	0.7	3.7	1.4	0.2	18.6
Well C3	0.9	0.3	1.5	69.3	113.5	87.0	92.5	76.4	49.9	4.6	16.0	0.1	512.1
Well C4	1.2	0.5	48.5	20.8	7.6	73.5	91.4	76.8	73.3	64.2	26.6	14.2	498.4
Well M3	0.0	0.3	0.4	1.5	14.3	76.4	94.3	92.1	87.5	47.2	0.2	0.2	414.4
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]	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	**3.0**	**1.4**	**51.2**	**91.9**	**135.4**	**241.5**	**282.0**	**247.2**	**211.4**	**119.7**	**44.1**	**14.7**	**1,443.5**
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	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 16	9.0	10.3	3.6	2.3	50.3	89.4	112.4	113.8	84.6	68.2	78.8	58.0	680.6
Well 21	141.5	87.6	144.2	196.3	39.5	394.9	290.1	294.4	240.9	210.7	196.2	169.5	2,405.7
Well 22	0.0	0.0	2.1	1.6	37.3	111.1	172.9	167.2	140.1	102.8	1.0	2.6	738.6
Well 23	147.7	169.0	113.3	209.2	264.7	265.3	268.8	263.6	178.5	0.0	107.1	256.8	2,244.0
Well 24	0.0	6.9	152.6	227.0	194.4	171.2	129.7	121.1	187.7	212.5	149.0	159.0	1,711.1
Well 25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	232.4	120.2	0.0	352.6
Well 26	9.0	10.4	57.8	133.6	154.5	163.9	174.9	170.0	152.5	161.1	127.4	130.1	1,445.1
Well 29	54.7	54.3	95.7	161.8	174.9	221.8	324.2	255.6	231.5	189.2	144.2	142.7	2,050.5
Egg Ranch Well	0.0	1.9	11.6	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4
To Banning [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
Subtotal	**361.8**	**340.4**	**580.9**	**940.7**	**915.5**	**1,417.6**	**1,472.8**	**1,385.7**	**1,215.8**	**1,176.9**	**923.8**	**918.7**	**11,650.7**
South Mesa Water Company													
3rd No. 4 Well	15.7	12.9	17.7	25.0	36.7	41.9	45.6	51.0	37.1	34.7	27.6	22.2	368.1
Subtotal	**15.7**	**12.9**	**17.7**	**25.0**	**36.7**	**41.9**	**45.6**	**51.0**	**37.1**	**34.7**	**27.6**	**22.2**	**368.1**
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	0.0	0.0	0.1	0.0	0.0	0.1
Subtotal	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.0**	**0.0**	**0.1**
Total	**380.5**	**354.8**	**649.8**	**1,057.6**	**1,087.7**	**1,700.9**	**1,800.4**	**1,684.0**	**1,464.2**	**1,331.4**	**995.5**	**955.6**	**13,462.4**

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

(2) - Pursuant to Part I, Paragraph 3 B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster).

Table 3-1E

Appropriator Producer - Summary of Production for Calendar Year 2018 (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	3.2	1.1	0.5	0.5	0.4	22.8	24.8	37.9	69.0	11.0	4.0	0.1	175.5
Well C3	0.0	0.9	0.2	0.2	0.7	68.6	67.8	79.1	79.8	103.7	107.2	13.4	521.7
Well C4	0.6	4.3	3.2	30.6	66.6	58.2	87.2	100.5	118.3	135.0	139.7	109.2	853.4
Well M3	0.2	0.2	0.1	56.6	86.7	81.5	89.4	86.6	86.0	56.6	46.6	0.1	590.5
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]	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	**4.1**	**6.5**	**4.0**	**87.9**	**154.4**	**231.2**	**269.2**	**304.1**	**353.0**	**306.3**	**297.5**	**122.8**	**2,141.1**
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	0.0	0.0	0.0	0.0	7.8	99.0	19.0	0.0	0.0	0.0	0.0	0.0	125.9
Well 16	20.6	6.3	15.6	12.7	12.7	54.5	22.5	21.2	2.8	5.5	0.8	0.6	176.0
Well 21	193.0	163.9	179.2	215.1	258.0	284.3	294.3	294.0	284.3	196.7	242.6	186.1	2,791.4
Well 22	0.7	18.6	16.8	80.4	155.1	53.2	0.0	0.0	0.0	0.0	0.0	0.0	324.9
Well 23	247.9	177.8	125.8	189.6	201.8	214.9	268.5	248.1	237.7	208.8	157.3	81.0	2,359.3
Well 24	72.9	147.1	110.0	201.9	166.2	237.9	261.0	237.9	217.0	206.1	222.4	142.0	2,222.5
Well 25	0.0	0.0	2.5	108.9	227.8	261.2	272.7	251.9	273.4	224.5	247.7	190.3	2,060.8
Well 26	94.1	75.3	6.1	0.0	0.0	0.0	88.1	183.6	159.8	120.7	111.6	50.0	889.4
Well 29	112.3	119.8	89.5	111.2	0.0	94.5	233.3	238.8	185.5	150.2	29.8	13.9	1,378.7
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]	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	**741.6**	**708.9**	**545.4**	**919.9**	**1,029.6**	**1,299.5**	**1,459.3**	**1,475.6**	**1,360.7**	**1,112.6**	**1,012.1**	**663.9**	**12,328.9**
South Mesa Water Company													
3rd No. 4 Well	20.1	14.5	14.4	26.9	30.0	42.7	51.4	46.5	44.0	31.4	26.9	16.1	364.9
Subtotal	**20.1**	**14.5**	**14.4**	**26.9**	**30.0**	**42.7**	**51.4**	**46.5**	**44.0**	**31.4**	**26.9**	**16.1**	**364.9**
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	92.1	0.0	0.0	0.1	60.8	0.2	7.7	30.3	0.0	191.2
Subtotal	**0.0**	**0.0**	**0.0**	**92.1**	**0.0**	**0.0**	**0.1**	**60.8**	**0.2**	**7.7**	**30.3**	**0.0**	**191.2**
Total	**765.7**	**729.9**	**563.9**	**1,126.8**	**1,214.0**	**1,573.3**	**1,779.9**	**1,886.9**	**1,757.9**	**1,458.0**	**1,366.8**	**802.9**	**15,026.1**

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

(2) - Pursuant to Part I, Paragraph 3 B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster).

Table 3-1F

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]	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	**117.0**	**83.4**	**84.6**	**180.6**	**152.5**	**215.7**	**288.5**	**284.9**	**242.5**	**169.7**	**158.6**	**82.6**	**2,060.7**
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	0.0
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]	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	**577.1**	**396.4**	**477.2**	**893.2**	**659.3**	**1,081.0**	**1,444.0**	**1,565.7**	**1,363.1**	**1,246.0**	**987.2**	**511.3**	**11,201.5**
South Mesa Water Company													
3rd No. 4 Well	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 3 B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster).

Table 3-2A
Overlying Producer - Summary of Production for Calendar Year 2003 through 2014 (ac-ft)

Owner and Well Name	Metered	Annual Water Production by Overlying Producer [1] [2]											
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Beckman, Walter M.	No	**16.2**	**27.0**	**22.4**	**11.5**	**8.3**	**12.7**	**12.9**	**6.4**	**9.0**	**9.0**	**2.1**	**0.9**
California Oak Valley Golf and Resort LLC [3]													
Oak Valley #1	Yes			523.2	453.6	181.7	596.9	135.7	304.2	0.0	0.0	266.8	55.4
Oak Valley #2	Yes			180.7	377.9	597.3	183.5	631.0	260.9	0.0	0.0	359.0	361.6
Subtotal		**736.2**	**728.6**	**703.9**	**831.5**	**779.0**	**780.4**	**766.7**	**565.1**	**517.3**	**517.3**	**625.8**	**417.0**
Merlin Properties	No	**3.6**	**1.6**	**1.6**	**1.6**	**1.6**	**1.6**	**1.6**	**1.5**	**1.6**	**1.6**	**1.6**	**1.6**
Oak Valley Partners, LP [4]													
Haskell Ranch-Main	N/A	29.4	19.6	300.0	300.0	300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Singleton Ranch #5	No	180.0	300.0	40.2	2.1	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Singleton Ranch #7	Yes	85.8	111.1	10.0	10.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Irrigation Stokes	No	6.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal		**301.2**	**440.7**	**350.2**	**312.1**	**312.1**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**
Plantation on the Lake LLC [6]	Yes	**178.6**	**340.9**	**310.2**	**350.1**	**344.2**	**354.0**	**352.3**	**337.2**	**344.7**	**344.7**	**326.7**	**403.8**
Rancho Calimesa Mobile Home Park	No	**35.4**	**68.3**	**68.3**	**68.3**	**69.3**	**69.3**	**69.3**	**69.3**	**69.3**	**69.3**	**69.3**	**16.2**
Roman Catholic Bishop of San Bernardino	No	**46.8**	**59.1**	**55.6**	**59.0**	**0.7**	**0.7**	**0.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Sharondale Mesa Owners Association													
Well No.1	Yes	98.6	111.0	98.4	97.0	130.1	102.9	80.3	67.7	81.0	79.2	72.0	78.0
Well No.2	Yes	5.7	47.0	82.6	91.6	52.3	90.4	74.0	64.6	52.0	66.0	75.0	59.3
Subtotal		**104.3**	**158.0**	**181.0**	**188.6**	**182.3**	**193.3**	**154.3**	**132.3**	**133.0**	**145.3**	**147.0**	**137.3**
Tukwet Canyon Golf Club [5]													
Well A	Yes	130.8	268.0	217.2	341.7	329.1	11.2	204.4	118.6	118.4	217.5	198.1	277.6
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
Well D	Yes	660.6	1,078.6	995.9	1,411.6	1,269.9	1,126.4	954.2	733.2	764.5	766.8	900.3	950.3
Subtotal		**791.4**	**1,346.7**	**1,213.1**	**1,753.4**	**1,599.1**	**1,137.6**	**1,158.6**	**851.8**	**882.9**	**984.3**	**1,098.4**	**1,227.9**
Stearns, Leonard M. and Dorothy D.	No	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	**0.7**	**0.7**	**0.7**	**0.7**	**0.7**
Sunny-Cal Egg and Poultry Company	N/A	**226.0**	**404.4**	**385.4**	**2.6**	**2.7**	**4.2**	**4.2**	**3.8**	**4.2**	**4.3**	**4.3**	**4.3**
Sunny-Cal North - Manheim, M & Berman	No				**13.2**	**2.3**	**2.3**	**2.3**	**2.1**	**2.3**	**2.4**	**2.4**	**2.4**
Nikodinov, Nick	No				**0.7**	**0.8**	**0.8**	**0.7**	**0.7**	**0.8**	**0.8**	**0.8**	**0.8**
McAmis, Ronald L.	No				**0.5**	**0.6**	**0.6**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**
Aldama, Nicolas and Amalia	No				**0.8**	**0.8**	**0.9**	**0.8**	**0.8**	**0.9**	**0.9**	**0.9**	**0.9**
Gutierrez, Hector, et al.	No				**1.4**	**1.4**	**1.4**	**1.4**	**1.3**	**1.4**	**1.4**	**1.4**	**1.4**
Darmont, Boris and Miriam	No				**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**
TOTAL		**2,440.8**	**3,576.3**	**3,292.6**	**3,596.7**	**3,306.5**	**2,563.6**	**2,530.1**	**1,976.5**	**1,971.4**	**2,085.4**	**2,284.8**	**2,218.7**

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

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

3.- Metering began in late 2004 and was not reported monthly. One total production value for each well was reported to Watermaster for FY 2003/04 . For the conversion to CY accounting, it was assumed that CY 2004 production for this entity was equal to FY 2003/04 production.

4.- Provided copies of state filing with annual calendar year totals for each well. Production values for Singleton Ranch #5 and Irrigation Stokes are estimated by Oak Valley Partners through 2007. Starting in 2008, production was reduced to an estimated 2.5 ac-ft/yr as agricultural use of the land ended. Estimate based on water use by a single farm house, a small office, and a small cattle population.

5.- The Southern California Section of the PGA of America changed to East Valley Golf Club in 2007 and to Tukwet Canyon Golf Course in 2010. Monthly production provided by the Morongo Band of Mission Indians - 03/14.

6.- Production from Plantion on the Lake LLC is subject to revision pending updated information to be provided by Overlying User.

Table 3-2B
Overlying Producer - Summary of Production for Calendar Year 2015 (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 [3]																
Oak Valley #1	Yes	22.2	0.0	34.5	56.4	40.1	66.6	35.1	59.9	111.6	31.3	25.3	2.8	485.6		
Oak Valley #2	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	193.8	11.7	60.0	0.0	265.5		
Subtotal		**22.2**	**0.0**	**34.5**	**56.4**	**40.1**	**66.6**	**35.1**	**59.9**	**305.4**	**43.0**	**85.3**	**2.8**	**751.1**	**735.8**	**0.0**
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production												**1.6**	**426.0**	**424.4**
Oak Valley Partners, LP [4]														**2.5**	**1,398.9**	**1,396.4**
Plantation on the Lake LLC [5]	Yes	39.7	19.3	17.4	24.3	26.2	32.1	20.9	24.8	28.2	27.3	21.6	20.2	**302.1**	**450.0**	**147.9**
Rancho Calimesa Mobile Home Park [6]																
Well No.1	Yes	1.2	1.1	1.1	1.5	0.8	0.8	1.2	1.2	0.9	1.2	1.1	1.0	13.2		
Well No.2	No	0.8	1.0	0.9	0.9	0.8	0.8	1.0	1.0	0.8	0.8	0.8	0.8	10.2		
Subtotal		**1.9**	**2.1**	**2.0**	**2.4**	**1.7**	**1.7**	**2.2**	**2.2**	**1.7**	**1.9**	**1.9**	**1.8**	**23.4**	**116.2**	**92.7**
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	2.5	3.9	0.5	0.2	1.9	5.1	6.3	9.6	8.4	8.9	7.9	1.8	57.1		
Well No.2	Yes	2.4	3.2	6.6	9.3	5.3	3.9	1.9	0.0	0.0	0.0	0.0	4.5	37.0		
Subtotal		**4.9**	**7.2**	**7.1**	**9.5**	**7.2**	**9.0**	**8.2**	**9.6**	**8.4**	**8.9**	**7.9**	**6.3**	**94.1**	**154.9**	**60.8**
Tukwet Canyon Golf Club [7]																
Well A	Yes	6.0	1.6	3.3	4.3	1.5	12.4	6.4	5.1	1.8	1.9	0.7	3.2	48.1		
Well D	Yes	42.1	53.7	51.7	89.2	55.4	120.3	93.3	104.8	95.5	59.3	50.9	34.1	850.5		
Subtotal		**48.1**	**55.4**	**55.0**	**93.5**	**56.9**	**132.7**	**99.7**	**109.8**	**97.3**	**61.2**	**51.6**	**37.3**	**898.6**	**1,704.0**	**805.4**
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**	**1,110.6**
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												**2.4**	**232.4**	**229.9**
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														**2,085.8**	**6,700.0**	**4,629.5**

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.- Monthly production used to be provided by user, but user has not provided data since 2014.

4.- Starting in 2008, the parcels owned by Oak Valley Partners were no longer used for agricultural purposes. Groundwater production was estimated at 2.5 ac-ft/yr based on water use by a single farm house, a small office, and a small cattle population. Only the Singleton Ranch No. 5 and the office wells are currently producing. The Singleton Ranch No. 7 and Irrigation Stokes wells are either abandoned or have not produced since 2008.

5.- Production from Plantion on the Lake LLC is subject to revision pending updated information to be provided by Overlying User.

6.- Actual monthly production provided by Clearwater Ops,a contractor in charge of operating their wells.

7.- Actual monthly production provided by the Morongo Band of Mission Indians - March 2016. Well C is currently out of service.

Table 3-2C
Overlying Producer - Summary of Production for Calendar Year 2016 (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 [3]																
Oak Valley #1	Yes	23.7	12.6	4.3	18.7	20.9	75.0	113.5	106.2	31.7	5.6	4.1	2.2	418.5		
Oak Valley #2	Yes	44.6	43.9	5.5	11.1	26.9	0.0	0.0	0.0	1.8	0.1	0.0	0.0	133.9		
Subtotal		**68.2**	**56.5**	**9.8**	**29.8**	**47.8**	**75.0**	**113.5**	**106.2**	**33.4**	**5.7**	**4.1**	**2.2**	**552.3**	**735.8**	**183.5**
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production												**1.6**	**426.0**	**424.4**
Oak Valley Partners, LP [4]														**2.5**	**1,398.9**	**1,396.4**
Plantation on the Lake LLC [7]	Yes	14.5	15.6	17.9	19.5	16.8	28.7	34.4	35.1	38.3	33.7	20.9	17.9	**293.4**	**450.0**	**156.6**
Rancho Calimesa Mobile Home Park [5]																
Well No.1	Yes	1.0	1.0	0.6	1.7	2.5	3.3	3.0	3.4	3.7	2.8	2.7	1.1	26.9		
Well No.2	No	0.7	0.6	0.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	4.2		
Subtotal		**1.7**	**1.6**	**1.1**	**2.9**	**2.5**	**3.3**	**3.0**	**3.4**	**3.7**	**2.8**	**3.1**	**2.0**	**31.2**	**116.2**	**85.0**
Roman Catholic Bishop of San Bernardino		Water Duty Method Used to Estimate Annual Production												**0.0**	**119.3**	**119.3**
Sharondale Mesa Owners Association [5]																
Well No.1	Yes	2.7	3.7	4.7	2.7	5.1	6.6	3.5	0.3	7.2	5.3	5.8	2.9	50.5		
Well No.2	Yes	2.3	2.7	1.4	4.0	3.3	4.0	5.5	4.3	1.6	0.0	2.8	2.5	34.3		
Subtotal		**5.0**	**6.4**	**6.1**	**6.7**	**8.4**	**10.6**	**9.0**	**4.5**	**8.9**	**5.3**	**8.6**	**5.4**	**84.8**	**154.9**	**70.1**
Tukwet Canyon Golf Club [6]																
Well A	Yes	0.8	0.7	14.1	0.7	1.7	4.7	7.9	11.7	5.7	1.4	0.6	0.5	50.6		
Well D	Yes	18.2	39.1	17.1	43.8	78.6	138.6	134.9	162.8	124.8	85.7	58.4	6.0	908.1		
Subtotal		**19.1**	**39.8**	**31.2**	**44.5**	**80.2**	**143.2**	**142.8**	**174.5**	**130.5**	**87.2**	**59.1**	**6.5**	**958.6**	**1,704.0**	**745.4**
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**	**1,110.6**
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												**2.4**	**232.4**	**229.9**
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														**1,936.7**	**6,700.0**	**4,763.3**

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.- Monthly production used to be provided by user, but user has not provided data since 2014.

4.- Starting in 2008, the parcels owned by Oak Valley Partners were no longer used for agricultural purposes. Groundwater production was estimated at 2.5 ac-ft/yr based on water use by a single farm house, a small office, and a small cattle population. Only the Singleton Ranch No. 5 and the office wells are currently producing. The Singleton Ranch No. 7 and Irrigation Stokes wells are either abandoned or have not produced since 2008.

5.- Monthly production since 2011 provided by Clearwater Solutions, a company in charge of operating the water system.

6.- Actual monthly production provided by the Morongo Band of Mission Indians - March 2015. Well C is currently out of service.

7.- Production by Plantion on the Lake LLC was provided for 2016; however, it is subject to revision pending updated information to be provided by Overlying User.

Table 3-2D
Overlying Producer - Summary of Production for Calendar Year 2017 (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 [3]																
Oak Valley #1	Yes	0.0	0.0	0.0	0.0	0.0	0.0	38.9	88.3	40.8	0.0	0.0	0.0	168.1		
Oak Valley #2	Yes	6.3	6.5	125.4	54.7	61.6	75.0	129.4	0.0	52.7	10.1	80.1	60.1	661.9		
Subtotal		**6.3**	**6.5**	**125.4**	**54.7**	**61.6**	**75.0**	**168.3**	**88.3**	**93.5**	**10.1**	**80.1**	**60.1**	**830.0**	**735.8**	**0.0**
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production												**1.6**	**426.0**	**424.4**
Oak Valley Partners, LP [4]														**2.5**	**1,398.9**	**1,396.4**
Plantation on the Lake LLC [7]	Yes	11.7	9.0	9.6	20.2	26.9	28.9	35.8	38.6	73.5	55.6	61.1	47.1	**417.8**	**450.0**	**32.2**
Rancho Calimesa Mobile Home Park [5]																
Well No.1	Yes	1.0	1.0	0.6	1.7	2.5	3.3	3.0	3.4	3.7	2.8	2.7	1.1	26.9		
Well No.2	No	0.7	0.6	0.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	4.2		
Subtotal		**1.7**	**1.6**	**1.1**	**2.9**	**2.5**	**3.3**	**3.0**	**3.4**	**3.7**	**2.8**	**3.1**	**2.0**	**31.2**	**116.2**	**85.0**
Roman Catholic Bishop of San Bernardino		Water Duty Method Used to Estimate Annual Production												**0.0**	**119.3**	**119.3**
Sharondale Mesa Owners Association [5]																
Well No.1	Yes	1.4	1.3	4.2	5.4	5.2	8.4	10.5	9.2	9.1	8.7	6.0	5.4	74.7		
Well No.2	Yes	1.4	1.2	3.3	4.0	3.8	4.1	4.0	3.7	3.9	4.3	5.1	4.4	43.2		
Subtotal		**2.7**	**2.5**	**7.4**	**9.3**	**9.0**	**12.5**	**14.5**	**13.0**	**13.0**	**13.0**	**11.2**	**9.8**	**117.9**	**154.9**	**37.0**
Tukwet Canyon Golf Club [6]																
Well A	Yes	0.4	0.8	0.6	7.9	6.2	15.4	12.3	6.1	2.9	12.4	0.7	0.5	66.3		
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	0.0	4.7	48.3	94.9	111.7	130.5	58.2	137.6	112.1	101.8	58.4	67.1	925.1		
Subtotal		**0.4**	**5.5**	**48.8**	**102.8**	**117.9**	**145.9**	**70.5**	**143.7**	**115.0**	**114.1**	**59.1**	**67.6**	**991.4**	**1,704.0**	**712.7**
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**	**1,110.6**
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												**2.4**	**232.4**	**229.9**
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														**2,404.7**	**6,700.0**	**4,389.4**

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.- Monthly production used to be provided by user, but user has not provided data since 2014.

4.- Starting in 2008, the parcels owned by Oak Valley Partners were no longer used for agricultural purposes. Groundwater production was estimated at 2.5 ac-ft/yr based on water use by a single farm house, a small office, and a small cattle population. Only the Singleton Ranch No. 5 and the office wells are currently producing. The Singleton Ranch No. 7 and Irrigation Stokes wells are either abandoned or have not produced since 2008.

5.- Monthly production since 2011 provided by Clearwater Solutions, a company in charge of operating the water system.

6.- Actual monthly production provided by the Morongo Band of Mission Indians - Jan 2018. Well C is currently out of service.

7.- Production information provided by Plantation on the Lake staff

Table 3-2E
Overlying Producer - Summary of Production for Calendar Year 2018 (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 [3]																
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	34.8	8.7	23.1	16.3	39.5	72.5	76.2	91.6	68.0	75.2	53.8	13.4	573.0		
Subtotal		**34.8**	**8.7**	**23.1**	**16.3**	**39.5**	**72.5**	**76.2**	**91.6**	**68.0**	**75.2**	**53.8**	**13.4**	**573.1**	**735.8**	**162.8**
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production												**1.6**	**426.0**	**424.4**
Oak Valley Partners, LP [4]														**2.5**	**1,218.5**	**1,216.0**
Plantation on the Lake LLC [7]	Yes	42.0	44.5	27.6	23.0	30.6	33.1	40.8	44.1	83.9	63.6	33.7	4.2	**471.2**	**450.0**	**-21.2**
Rancho Calimesa Mobile Home Park [5]																
Well No.1	Yes	2.3	2.0	2.1	2.7	2.4	2.9	3.9	3.7	2.9	3.3	2.3	2.2	32.7		
Well No.2	No	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		**2.3**	**2.0**	**2.1**	**2.7**	**2.4**	**2.9**	**3.9**	**3.7**	**2.9**	**3.3**	**2.3**	**2.2**	**32.7**	**116.2**	**83.4**
Roman Catholic Bishop of San Bernardino		Water Duty Method Used to Estimate Annual Production												**0.0**	**119.3**	**119.3**
Sharondale Mesa Owners Association [5]																
Well No.1	Yes	3.2	4.4	2.4	5.4	8.0	8.5	8.0	10.4	12.8	10.9	7.6	3.8	85.4		
Well No.2	Yes	2.7	3.2	2.1	3.9	2.4	2.9	5.1	3.1	1.3	0.0	1.4	2.8	31.0		
Subtotal		**5.9**	**7.7**	**4.4**	**9.3**	**10.4**	**11.4**	**13.1**	**13.5**	**14.2**	**10.9**	**9.0**	**6.6**	**116.4**	**154.9**	**38.5**
Tukwet Canyon Golf Club [6]																
Well A	Yes	0.9	0.5	0.7	1.4	0.9	4.1	13.6	13.5	7.5	2.9	0.7	0.8	47.5		
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	37.3	40.8	18.3	88.3	78.9	124.6	149.1	133.8	120.0	81.4	67.6	23.4	963.5		
Subtotal		**38.2**	**41.2**	**19.0**	**89.8**	**79.8**	**128.7**	**162.7**	**147.3**	**127.5**	**84.2**	**68.3**	**24.2**	**1,010.9**	**1,704.0**	**693.1**
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**	**1,110.6**
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												**2.4**	**232.4**	**229.9**
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														**2,220.7**	**6,519.6**	**4,298.9**

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.- Monthly production used to be provided by user, but user has not provided data since 2014.

4.- Starting in 2008, the parcels owned by Oak Valley Partners were no longer used for agricultural purposes. Groundwater production was estimated at 2.5 ac-ft/yr based on water use by a single farm house, a small office, and a small cattle population. Only the Singleton Ranch No. 5 and the office wells are currently producing. The Singleton Ranch No. 7 and Irrigation Stokes wells are either abandoned or have not produced since 2008. In 2018 Oak Valley Partners Overlying water rights were reduced by 180.40 ac-ft as a result of a water transfer with YVWD.

5.- Monthly production since 2011 provided by Clearwater Solutions, a company in charge of operating the water system.

6.- Actual monthly production provided by the Morongo Band of Mission Indians - Jan 2019. Well C is currently out of service.

7.- Production information provided by Plantation on the Lake staff

Table 3-2F
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 [3]																
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 [4]														**0.0**	**0.0**	**0.0**
Plantation on the Lake LLC [7]	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 [5]																
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	2.5	-0.9	0.7	1.5	0.0	0.0	0.0	0.0	0.0	0.6	5.4		
Subtotal		**2.0**	**2.1**	**3.7**	**0.5**	**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 [5]																
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 [6]																
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												**4.3**	**1,115.0**	**1,110.6**
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												**2.4**	**232.4**	**229.9**
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														**1,771.4**	**5,301.1**	**3,529.7**

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.- Monthly production used to be provided by user, but user has not provided data since 2014.

4.- Starting in 2008, the parcels owned by Oak Valley Partners were no longer used for agricultural purposes. Groundwater production was estimated at 2.5 ac-ft/yr based on water use by a single farm house, a small office, and a small cattle population. Only the Singleton Ranch No. 5 and the office wells are currently producing. The Singleton Ranch No. 7 and Irrigation Stokes wells are either abandoned or have not produced since 2008. In 2018 Oak Valley Partners Overlying water rights were reduced by 180.40 ac-ft as a result of a water transfer with YVWD.

5.- Monthly production since 2011 provided by Clearwater Solutions, a company in charge of operating the water system.

6.- Actual monthly production provided by the Morongo Band of Mission Indians - Jan 2019. Well C is currently out of service.

7.- Production information provided by Plantation on the Lake staff

Table 3-3A

Production Summary for Appropriator and Overlying Producers in the Beaumont Basin

2003 through 2010 - Calendar Year Accounting (ac-ft)

	Annual Production (ac-ft)							
	2003[1]	2004	2005	2006	2007	2008	2009	2010
Appropriator Parties								
Banning, City of	2,174.2	3,397.3	1,808.6	1,827.5	2,772.6	2,933.6	2,095.0	1,143.6
Beaumont-Cherry Valley Water District	3,511.9	6,873.9	7,025.6	9,054.1	11,383.3	10,710.5	10,133.9	9,421.3
South Mesa Water Company	223.2	482.5	663.2	616.0	665.8	470.9	382.2	405.0
Yucaipa Valley Water District	1,162.4	1,833.7	1,281.3	2,027.3	1,682.9	572.0	504.4	672.4
Subtotal	**7,071.7**	**12,587.4**	**10,778.6**	**13,524.9**	**16,504.6**	**14,687.0**	**13,115.6**	**11,642.3**
Overlying Parties								
Beckman, Walter M	16.2	27.0	22.4	11.5	8.3	12.7	12.9	6.4
California Oak Valley Golf and Resort LLC	736.2	728.6	703.9	831.5	779.0	780.4	766.7	565.1
Merlin Properties	3.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5
Oak Valley Partners, LP	301.2	440.7	350.2	312.1	312.1	310.5	310.5	2.5
Plantation on the Lake LLC	178.6	340.9	310.2	350.1	344.2	354.0	352.3	337.2
Rancho Calimesa Mobile Home Park	35.4	68.3	68.3	68.3	69.3	69.3	69.3	69.3
Roman Catholic Bishop of San Bernardino	46.8	59.1	55.6	59.0	0.7	0.7	0.7	0.0
Sharondale Mesa Owners Association	104.3	158.0	181.0	188.6	182.3	193.3	154.3	132.3
Tukwet Canyon Golf Club[2]	791.4	1,346.7	1,213.1	1,753.4	1,599.1	1,137.6	1,158.6	851.8
Stearns, Leonard M. and Dorothy D.	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.7
Sunny-Cal Egg and Poultry Company	226.0	404.4	385.4	2.6	2.7	4.2	4.2	3.8
Albor Properties III, LP[3]				13.2	2.3	2.3	2.3	2.1
Nikodinov, Nick				0.7	0.8	0.8	0.7	0.7
McAmis, Ronald L.				0.5	0.6	0.6	0.5	0.5
Aldama, Nicolas and Amalia				0.8	0.8	0.9	0.8	0.8
Gutierrez, Hector, et. al.				1.4	1.4	1.4	1.4	1.3
Darmont, Boris and Miriam				0.4	0.4	0.4	0.4	0.4
Subtotal	**2,440.8**	**3,576.3**	**3,292.6**	**3,596.7**	**3,306.5**	**2,871.6**	**2,838.2**	**1,976.5**
Total	**9,512.5**	**16,163.6**	**14,071.3**	**17,121.6**	**19,811.1**	**17,558.6**	**15,953.7**	**13,618.8**

1.- 2003 groundwater production only includes Jul-Dec time period.

2.- Formerly known as the East Valley Golf Course and the Southern California Section of the PGA of America.

3.- Formerly Known as Sunny Cal North - Manheim, Manheim & Berman.

Table 3-3B

Production Summary for Appropriator and Overlying Producers in the Beaumont Basin

2011 through 2019 - Calendar Year Accounting (ac-ft)

	Annual Production (ac-ft)								
	2011	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**
Appropriator Parties									
Banning, City of	1,341.7	1,038.3	2,100.7	2,585.1	1,678.3	1,472.7	1,443.5	2,141.1	2,060.65
Beaumont-Cherry Valley Water District	9,431.3	10,162.0	11,097.4	10,805.5	8,972.8	10,159.8	11,650.7	12,328.9	11,201.52
South Mesa Water Company	419.9	448.5	308.4	473.7	317.2	352.6	368.1	364.9	330.69
Yucaipa Valley Water District	534.1	700.1	1,030.8	1,198.5	119.2	4.6	0.1	191.2	528.63
Subtotal	**11,727.1**	**12,348.9**	**14,537.2**	**15,062.8**	**11,087.4**	**11,989.7**	**13,462.4**	**15,026.1**	**14,121.5**
Overlying Parties									
Beckman, Walter M	9.0	9.0	2.1	0.9	0.9	0.9	0.9	0.9	0.9
California Oak Valley Golf and Resort LLC	517.3	517.3	625.8	417.0	751.1	552.3	830.0	573.1	489.6
Merlin Properties	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Oak Valley Partners, LP	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0
Plantation on the Lake LLC	344.7	344.7	326.7	403.8	302.1	293.4	417.8	471.2	258.7
Rancho Calimesa Mobile Home Park	69.3	69.3	69.3	16.2	23.4	31.2	31.2	32.7	32.1
Roman Catholic Bishop of San Bernardino	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sharondale Mesa Owners Association	133.0	145.3	147.0	137.3	94.1	84.8	117.9	116.4	98.3
Tukwet Canyon Golf Club[1]	882.9	984.3	1,098.4	1,227.9	898.6	958.6	991.4	1,010.9	878.8
Stearns, Leonard M. and Dorothy D.	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Sunny-Cal Egg and Poultry Company	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Albor Properties III, LP[2]	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Nikodinov, Nick	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
McAmis, Ronald L.	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Aldama, Nicolas and Amalia	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Gutierrez, Hector, et. al.	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Darmont, Boris and Miriam	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Subtotal	**1,971.4**	**2,085.4**	**2,284.8**	**2,218.7**	**2,085.7**	**1,936.7**	**2,404.7**	**2,220.7**	**1,771.4**
Total	**13,698.4**	**14,434.3**	**16,821.9**	**17,281.5**	**13,173.1**	**13,926.4**	**15,867.1**	**17,246.8**	**15,892.9**

1.- Formerly known as the East Valley Golf Course and the Southern California Section of the PGA of America.

2.- Formerly Known as Sunny Cal North - Manheim, Manheim & Berman.

Table 3-4

Annual Supplemental Recharge to the Beaumont Basin -- Calendar Year Accounting

Year	Supplemental Recharge (ac-ft)				
	Banning[1]	Beaumont	BCVWD[1]	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
Totals	**13,692.2**	**-**	**97,887.2**	**10,765.6**	**122,345.0**

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

2.- Through 2018, the SGPWA regarched imported water at the Little San Gorgonio Creek Spreading Ponds, located just to the north of the basin boundary. Starting in 2019, the SGPWA recharges 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 Since 2007

Recycled Water Daily Average Discharges (mgd) to DDP1 - Coopers's Canyon

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	2,786
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	2,889
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	2,902
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	2.23	2,495
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	2,614
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	2,992
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	3,360
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	3,533
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	3,799
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

Recycled Water Daily Average Discharges (mgd) to DDP7 - Marshall's Canyon

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	0.68	633
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	545
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	418
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
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-

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 (2015-19) Average Production (ac-ft)	5-Year (2015-19) Running Avg % of Water Right
California Oak Valley Golf and Resort LLC [(1)]	950.0	735.8	639.2	86.9%
Plantation on the Lake LLC	581.0	450.0	348.6	77.5%
Sharondale Mesa Owners Association	200.0	154.9	102.3	66.0%
Tukwet Canyon Golf Club	2,200.0	1,704.0	947.7	55.6%
Rancho Calimesa Mobile Home Park	150.0	116.2	30.1	25.9%
Gutierrez, Hector, et al.	10.0	7.7	1.4	18.5%
Darmont, Boris and Miriam	2.5	1.9	0.4	18.1%
Aldama, Nicolas and Amalia	7.0	5.4	0.9	16.0%
McAmis, Ronald L.	5.0	3.9	0.6	14.5%
Nikodinov, Nick	20.0	15.5	0.8	5.0%
Beckman, Walter M.	75.0	58.1	0.9	1.5%
Albor Properties III, LP	300.0	232.4	2.4	1.0%
Stearns, Leonard M. and Dorothy D.	200.0	154.9	0.7	0.5%
Sunny-Cal Egg and Poultry Company	1,439.5	1,115.0	4.3	0.4%
Merlin Properties	550.0	426.0	1.6	0.4%
Oak Valley Partners, LP [(2)]	1,806.0	1,398.9	2.0	0.1%
Roman Catholic Bishop of San Bernardino	154.0	119.3	0.0	0.0%
	8,650.0	**6,700.0**	**2,083.9**	**31.1%**

(1) - California Oak Valley Golf and Resort LLC exceeded its annual production right in 2015 and 2017; however, their average 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. In 2018 OVP transfered a combined total of 180.40 ac-ft in overlying rights to YVWD upon YVWD's water service commitments to serve certain Project parcels in the Beaumont Basin. In a similar manner, an additional 2.65 ac-ft of former OVP's Overlying water rights were transfered to YVWD in early 2019.

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
2003	4,325	2,441	1,884
2004	8,650	3,576	5,074
2005	8,650	3,293	5,357
2006	8,650	3,597	5,053
2007	8,650	3,307	5,343
2008	8,650	2,872	5,778
2009	8,650	2,838	5,812
2010	8,650	1,976	6,674
2011	8,650	1,971	6,679
2012	8,650	2,085	6,565
2013	8,650	2,285	6,365
2014	6,700	2,219	4,481
2015	6,700	2,086	4,614
2016	6,700	1,937	4,763
2017	6,700	2,405	4,295
2018 [1]	6,520	2,221	4,299
2019 [2]	6,517	1,771	4,746

Allocation Year	City of Banning	City of Beaumont	Beaumont Cherry Valley WD	South Mesa Water Co.	Yucaipa Valley Water District	Total
2008	592	0	801	235	256	1,884
2009	1,595	0	2,157	633	689	5,074
2010	1,684	0	2,277	669	728	5,357
2011	1,588	0	2,148	631	686	5,053
2012	1,679	0	2,272	667	726	5,343
2013	1,816	0	2,456	721	785	5,778
2014	1,827	0	2,471	725	789	5,812
2015	2,097	0	2,837	833	906	6,674
2016	2,099	0	2,839	833	907	6,679
2017	2,063	0	2,791	819	891	6,565
2018	2,001	0	2,706	794	864	6,365
2019	1,408	0	1,905	559	609	4,481
2020	1,450	0	1,962	576	627	4,614
2021	1,497	0	2,025	594	647	4,763
2022	1,350	0	1,826	536	583	4,295
2023	1,351	0	1,827	536	584	4,299
2024	1,492	0	2,017	592	644	4,746

1.- In 2018, Oak Valley Partners, through three assignments, transferred a combined total of 180.40 ac-ft of Overlying Rights to the YVWD to serve certain parcels in the Beaumont Basin.

2.- In 2019, Oak Valley Partners, through a single assignment, transferred 2.65 ac-ft of Overlying Rights to the YVWD to serve certain parcels in the Beaumont Basin.

Table 3-8
Consolidation of Appropriator Production and Storage Accounts
Calendar Year Accounting (ac-ft) 2003 through 2019

Calendar Year	Storage Account Balance at Beginning of CY	Share of Surplus Water	Appropriative Rights	Production	Additions to Storage Account							Ending Account Balance
					Under / Over Production [1]	Overlying Users Parcel Conversion	Unused Overlying Production Allocation	Transfers Among Appropriators	SWP Water Recharge	Local Recharge	Total Additions to Storage Account	
City of Banning - Authorized Storage Account: 80,000 ac-ft												
2003	0.0	2,514.5	0.0	2,174.2	340.3	0.0	0.0	0.0	0.0	0.0	340.3	340.3
2004	340.3	5,029.0	0.0	3,397.3	1,631.7	0.0	0.0	0.0	0.0	0.0	1,631.7	1,972.0
2005	1,972.0	5,029.0	0.0	1,808.6	3,220.4	0.0	0.0	0.0	0.0	0.0	3,220.4	5,192.5
2006	5,192.5	5,029.0	0.0	1,827.5	3,201.5	0.0	0.0	0.0	0.0	0.0	3,201.5	8,393.9
2007	8,393.9	5,029.0	0.0	2,772.6	2,256.4	0.0	0.0	1,500.0	0.0	0.0	3,756.4	12,150.3
2008	12,150.3	5,029.0	0.0	2,933.6	2,095.4	0.0	592.2	0.0	1,534.0	0.0	4,221.6	16,371.9
2009	16,371.9	5,029.0	0.0	2,095.0	2,934.0	0.0	1,594.7	0.0	2,741.2	0.0	7,269.8	23,641.8
2010	23,641.8	5,029.0	0.0	1,143.6	3,885.4	0.0	1,683.8	0.0	1,338.0	0.0	6,907.2	30,549.0
2011	30,549.0	5,029.0	0.0	1,341.7	3,687.3	0.0	1,588.2	0.0	800.0	0.0	6,075.6	36,624.5
2012	36,624.5	5,029.0	0.0	1,038.3	3,990.7	0.0	1,679.5	0.0	1,200.0	0.0	6,870.2	43,494.7
2013	43,494.7	2,514.5	0.0	2,100.7	413.8	0.0	1,816.1	0.0	1,200.0	0.0	3,430.0	46,924.7
2014	46,924.7	0.0	0.0	2,585.1	-2,585.1	0.0	1,826.7	0.0	608.0	0.0	-150.4	46,774.3
2015	46,774.3	0.0	0.0	1,678.3	-1,678.3	0.0	2,097.5	0.0	694.0	0.0	1,113.2	47,887.5
2016	47,887.5	0.0	0.0	1,472.7	-1,472.7	0.0	2,099.1	0.0	1,477.0	0.0	2,103.4	49,990.8
2017	49,990.8	0.0	0.0	1,443.5	-1,443.5	0.0	2,063.2	0.0	1,350.0	0.0	1,969.8	51,960.6
2018	51,960.6	0.0	0.0	2,141.1	-2,141.1	0.0	2,000.6	0.0	500.0	0.0	359.5	52,320.1
2019	52,320.1	0.0	0.0	2,060.7	-2,060.7	0.0	1,408.5	0.0	250.0	0.0	-402.2	51,917.9

1 -- Negative values of under production indicate that the appropriator pumped more than its share of the operating yield.

Table 3-8
Consolidation of Appropriator Production and Storage Accounts
Calendar Year Accounting (ac-ft) 2003 through 2019

Calendar Year	Storage Account Balance at Beginning of CY	Share of Surplus Water	Appropriative Rights	Production	Additions to Storage Account							Ending Account Balance
					Under / Over Production [1]	Overlying Users Parcel Conversion	Unused Overlying Production Allocation	Transfers Among Appropriators	SWP Water Recharge	Local Recharge	Total Additions to Storage Account	
Beaumont Cherry Valley Water District - Authorized Storage Account: 80,000 ac-ft												
2003	0.0	3,401.0	0.0	3,511.9	-110.9	0.0	0.0	0.0	0.0	0.0	-110.9	-110.9
2004	-110.9	6,802.0	0.0	6,873.9	-71.9	0.0	0.0	0.0	0.0	0.0	-71.9	-182.8
2005	-182.8	6,802.0	0.0	7,025.6	-223.6	0.0	0.0	0.0	0.0	0.0	-223.6	-406.4
2006	-406.4	6,802.0	0.0	9,054.1	-2,252.1	0.0	0.0	0.0	3,501.0	0.0	1,248.9	842.5
2007	842.5	6,802.0	0.0	11,383.3	-4,581.3	0.0	0.0	1,500.0	4,501.0	0.0	1,419.7	2,262.2
2008	2,262.2	6,802.0	0.0	10,710.5	-3,908.5	0.0	801.0	2,500.0	2,399.0	0.0	1,791.5	4,053.7
2009	4,053.7	6,802.0	0.0	10,133.9	-3,331.9	0.0	2,156.8	2,000.0	2,741.2	0.0	3,566.1	7,619.8
2010	7,619.8	6,802.0	0.0	9,421.3	-2,619.3	0.0	2,277.4	0.0	5,727.0	0.0	5,385.1	13,004.9
2011	13,004.9	6,802.0	0.0	9,431.3	-2,629.3	0.0	2,148.1	3,500.0	7,979.0	0.0	10,997.8	24,002.8
2012	24,002.8	6,802.0	0.0	10,162.0	-3,360.0	0.0	2,271.5	0.0	7,783.0	0.0	6,694.5	30,697.3
2013	30,697.3	3,401.0	0.0	11,097.4	-7,696.4	0.0	2,456.4	0.0	7,403.0	0.0	2,163.0	32,860.3
2014	32,860.3	0.0	0.0	10,805.5	-10,805.5	0.0	2,470.6	0.0	4,405.0	0.0	-3,929.9	28,930.4
2015	28,930.4	0.0	0.0	8,972.8	-8,972.8	0.0	2,836.9	0.0	2,773.0	0.0	-3,362.8	25,567.6
2016	25,567.6	0.0	0.0	10,159.8	-10,159.8	0.0	2,839.1	0.0	9,319.0	0.0	1,998.3	27,565.9
2017	27,565.9	0.0	0.0	11,650.7	-11,650.7	0.0	2,790.6	0.0	13,590.0	0.0	4,729.9	32,295.7
2018	32,295.7	0.0	0.0	12,328.9	-12,328.9	0.0	2,705.9	0.0	12,121.0	0.0	2,497.9	34,793.7
2019	34,793.7	0.0	0.0	11,201.5	-11,201.5	0.0	1,905.0	0.0	13,645.0	0.0	4,348.5	39,142.1

1 -- Negative values of under production indicate that the appropriator pumped more than its share of the operating yield.

Table 3-8
Consolidation of Appropriator Production and Storage Accounts
Calendar Year Accounting (ac-ft) 2003 through 2019

Calendar Year	Storage Account Balance at Beginning of CY	Share of Surplus Water	Appropriative Rights	Production	Additions to Storage Account							Ending Account Balance
					Under / Over Production [1]	Overlying Users Parcel Conversion	Unused Overlying Production Allocation	Transfers Among Appropriators	SWP Water Recharge	Local Recharge	Total Additions to Storage Account	
City of Beaumont - Authorized Storage Account: 30,000 ac-ft												
2003	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0

1 -- Negative values of under production indicate that the appropriator pumped more than its share of the operating yield.

Table 3-8
Consolidation of Appropriator Production and Storage Accounts
Calendar Year Accounting (ac-ft) 2003 through 2019

Calendar Year	Storage Account Balance at Beginning of CY	Share of Surplus Water	Appropriative Rights	Production	Additions to Storage Account							Ending Account Balance
					Under / Over Production [1]	Overlying Users Parcel Conversion	Unused Overlying Production Allocation	Transfers Among Appropriators	SWP Water Recharge	Local Recharge	Total Additions to Storage Account	
South Mesa Water Company - Authorized Storage Account: 20,000 ac-ft												
2003	0.0	998.0	0.0	223.2	774.8	0.0	0.0	0.0	0.0	0.0	774.8	774.8
2004	774.8	1,996.0	0.0	482.5	1,513.5	0.0	0.0	0.0	0.0	0.0	1,513.5	2,288.3
2005	2,288.3	1,996.0	0.0	663.2	1,332.8	0.0	0.0	0.0	0.0	0.0	1,332.8	3,621.1
2006	3,621.1	1,996.0	0.0	616.0	1,380.0	0.0	0.0	0.0	0.0	0.0	1,380.0	5,001.1
2007	5,001.1	1,996.0	0.0	665.8	1,330.2	0.0	0.0	-3,000.0	0.0	0.0	-1,669.8	3,331.3
2008	3,331.3	1,996.0	0.0	470.9	1,525.2	0.0	235.2	-2,500.0	0.0	0.0	-739.7	2,591.6
2009	2,591.6	1,996.0	0.0	382.2	1,613.8	0.0	633.2	-2,000.0	0.0	0.0	247.0	2,838.6
2010	2,838.6	1,996.0	0.0	405.0	1,591.0	0.0	668.6	0.0	0.0	0.0	2,259.6	5,098.2
2011	5,098.2	1,996.0	0.0	419.9	1,576.1	0.0	630.6	-3,500.0	0.0	0.0	-1,293.3	3,805.0
2012	3,805.0	1,996.0	0.0	448.5	1,547.5	0.0	666.9	0.0	0.0	0.0	2,214.4	6,019.3
2013	6,019.3	998.0	0.0	308.4	689.7	0.0	721.1	0.0	0.0	0.0	1,410.8	7,430.1
2014	7,430.1	0.0	0.0	473.7	-473.7	0.0	725.3	0.0	0.0	0.0	251.6	7,681.7
2015	7,681.7	0.0	0.0	317.2	-317.2	0.0	832.9	0.0	0.0	0.0	515.7	8,197.4
2016	8,197.4	0.0	0.0	352.6	-352.6	0.0	833.5	0.0	0.0	0.0	480.9	8,678.3
2017	8,678.3	0.0	0.0	368.1	-368.1	0.0	819.3	0.0	0.0	0.0	451.2	9,129.5
2018	9,129.5	0.0	0.0	364.9	-364.9	0.0	794.4	0.0	0.0	0.0	429.5	9,559.0
2019	9,559.0	0.0	0.0	330.7	-330.7	0.0	559.3	0.0	0.0	0.0	228.6	9,787.5

1 -- Negative values of under production indicate that the appropriator pumped more than its share of the operating yield.

Table 3-8
Consolidation of Appropriator Production and Storage Accounts
Calendar Year Accounting (ac-ft) 2003 through 2019

Calendar Year	Storage Account Balance at Beginning of CY	Share of Surplus Water	Appropriative Rights	Production	Additions to Storage Account							Ending Account Balance
					Under / Over Production [1]	Overlying Users Parcel Conversion	Unused Overlying Production Allocation	Transfers Among Appropriators	SWP Water Recharge	Local Recharge	Total Additions to Storage Account	
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	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	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	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	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	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	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	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	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	257.8	0.0	257.8	257.8

1 -- Negative values of under production indicate that the appropriator pumped more than its share of the operating yield.

Table 3-8
Consolidation of Appropriator Production and Storage Accounts
Calendar Year Accounting (ac-ft) 2003 through 2019

Calendar Year	Storage Account Balance at Beginning of CY	Share of Surplus Water	Appropriative Rights	Production	Additions to Storage Account							Ending Account Balance
					Under / Over Production [1]	Overlying Users Parcel Conversion	Unused Overlying Production Allocation	Transfers Among Appropriators	SWP Water Recharge	Local Recharge	Total Additions to Storage Account	
Yucaipa Valley Water District - Authorized Storage Account: 50,000 ac-ft												
2003	0.0	1,086.5	0.0	1,162.4	-75.9	0.0	0.0	0.0	0.0	0.0	-75.9	-75.9
2004	-75.9	2,173.0	0.0	1,833.7	339.3	0.0	0.0	0.0	0.0	0.0	339.3	263.4
2005	263.4	2,173.0	0.0	1,281.3	891.7	0.0	0.0	0.0	0.0	0.0	891.7	1,155.1
2006	1,155.1	2,173.0	0.0	2,027.3	145.7	0.0	0.0	0.0	0.0	0.0	145.7	1,300.8
2007	1,300.8	2,173.0	0.0	1,682.9	490.1	0.0	0.0	0.0	0.0	0.0	490.1	1,790.9
2008	1,790.9	2,173.0	0.0	572.0	1,601.0	0.0	255.9	0.0	0.0	0.0	1,856.8	3,647.8
2009	3,647.8	2,173.0	0.0	504.4	1,668.6	0.0	689.0	0.0	0.0	0.0	2,357.6	6,005.4
2010	6,005.4	2,173.0	0.0	672.4	1,500.6	0.0	727.5	0.0	0.0	0.0	2,228.1	8,233.5
2011	8,233.5	2,173.0	0.0	534.1	1,638.9	0.0	686.2	0.0	0.0	0.0	2,325.1	10,558.6
2012	10,558.6	2,173.0	0.0	700.1	1,472.9	0.0	725.6	0.0	0.0	0.0	2,198.5	12,757.1
2013	12,757.1	1,086.5	0.0	1,030.8	55.7	0.0	784.7	0.0	0.0	0.0	840.4	13,597.6
2014	13,597.6	0.0	0.0	1,198.5	-1,198.5	0.0	789.2	0.0	0.0	0.0	-409.2	13,188.4
2015	13,188.4	0.0	0.0	119.2	-119.2	0.0	906.3	0.0	0.0	0.0	787.1	13,975.4
2016	13,975.4	0.0	0.0	4.6	-4.6	0.0	907.0	0.0	0.0	0.0	902.4	14,877.8
2017	14,877.8	0.0	0.0	0.1	-0.1	0.0	891.5	0.0	0.0	0.0	891.3	15,769.2
2018	15,769.2	0.0	0.0	191.2	-191.2	180.4	864.4	0.0	0.0	0.0	853.6	16,622.8
2019	16,622.8	0.0	0.0	528.6	-528.6	1,398.9	608.6	0.0	0.0	0.0	1,478.8	18,101.6

1 -- Negative values of under production indicate that the appropriator pumped more than its share of the operating yield.

Table 3-8
Consolidation of Appropriator Production and Storage Accounts
Calendar Year Accounting (ac-ft) 2003 through 2019

Calendar Year	Storage Account Balance at Beginning of CY	Share of Surplus Water	Appropriative Rights	Production	Additions to Storage Account							Ending Account Balance
					Under / Over Production [1]	Overlying Users Parcel Conversion	Unused Overlying Production Allocation	Transfers Among Appropriators	SWP Water Recharge	Local Recharge	Total Additions to Storage Account	
Totals - All Agencies with Storage Accounts												
2003	0.0	8,000.0	0.0	7,071.7	928.3	0.0	0.0	0.0	0.0	0.0	928.3	928.3
2004	928.3	16,000.0	0.0	12,587.4	3,412.6	0.0	0.0	0.0	0.0	0.0	3,412.6	4,340.9
2005	4,340.9	16,000.0	0.0	10,778.6	5,221.4	0.0	0.0	0.0	0.0	0.0	5,221.4	9,562.3
2006	9,562.3	16,000.0	0.0	13,524.9	2,475.1	0.0	0.0	0.0	3,501.0	0.0	5,976.1	15,538.3
2007	15,538.3	16,000.0	0.0	16,504.6	-504.6	0.0	0.0	0.0	4,501.0	0.0	3,996.4	19,534.8
2008	19,534.8	16,000.0	0.0	14,687.0	1,313.0	0.0	1,884.2	0.0	3,933.0	0.0	7,130.2	26,665.0
2009	26,665.0	16,000.0	0.0	13,115.6	2,884.4	0.0	5,073.7	0.0	5,482.4	0.0	13,440.6	40,105.6
2010	40,105.6	16,000.0	0.0	11,642.3	4,357.7	0.0	5,357.4	0.0	7,065.0	0.0	16,780.0	56,885.6
2011	56,885.6	16,000.0	0.0	11,727.1	4,272.9	0.0	5,053.3	0.0	8,779.0	0.0	18,105.2	74,990.9
2012	74,990.9	16,000.0	0.0	12,348.9	3,651.1	0.0	5,343.5	0.0	8,983.0	0.0	17,977.6	92,968.5
2013	92,968.5	8,000.0	0.0	14,537.2	-6,537.2	0.0	5,778.4	0.0	8,603.0	0.0	7,844.2	100,812.7
2014	100,812.7	0.0	0.0	15,062.8	-15,062.8	0.0	5,811.8	0.0	5,013.0	0.0	-4,237.9	96,574.8
2015	96,574.8	0.0	0.0	11,087.4	-11,087.4	0.0	6,673.5	0.0	3,467.0	0.0	-946.9	95,627.9
2016	95,627.9	0.0	0.0	11,989.7	-11,989.7	0.0	6,678.6	0.0	10,796.0	0.0	5,484.9	101,112.8
2017	101,112.8	0.0	0.0	13,462.4	-13,462.4	0.0	6,564.6	0.0	14,940.0	0.0	8,042.2	109,155.0
2018	109,155.0	0.0	0.0	15,026.1	-15,026.1	180.4	6,365.2	0.0	12,621.0	0.0	4,140.5	113,295.5
2019	113,295.5	0.0	0.0	14,121.5	-14,121.5	1,398.9	4,481.3	0.0	14,152.8	0.0	5,911.5	119,207.0

1 -- Negative values of under production indicate that the appropriator pumped more than its share of the operating yield.

Section 4
Water Quality Conditions

The purpose of this section is to document the water quality conditions in the Beaumont Basin during the 2015-2019 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.

Sources and Availability of Water Quality Information

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 and the Beaumont Management Zone Maximum Benefit Monitoring Program. The database obtained from the CDPH, which focuses on drinking water sources, contains 3,914 water quality results for the 2015-2019 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-nitrogen 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-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-nitrogen concentration exceeds the BMZ maximum benefit objectives.

4.1.1 Total Dissolved Solids

Figure 4-2 shows the maximum TDS concentrations for 50 wells measured within and in the vicinity of the Beaumont Basin wells during the 2015-2019 reporting period. A total of 34 wells are located inside the basin with the remaining 16 in the Singleton Basin / Edgar Canyon and the South Beaumont Basin areas.

The maximum TDS concentrations for wells owned by appropriators within the basin ranged from 130 to 350 mg/L and averaged 229 mg/L; this average value is 26 mg/L lower than the

average maximum TDS concentration reported in the 2008-11 Engineering Report of 255 mg/L. This indicates TDS concentrations have been trending slightly lower in the last 10 years. Of the 11 overlying wells within the basin, TDS concentrations ranged from 100 to 320 mg/L and average 245 mg/L, slightly higher than the average for appropriator's wells.

In the Singleton Basin / Edgar Canyon area, the maximum TDS concentration ranged from 240 to 400 mg/L and averaged 283 mg/L. The average TDS concentration for all samples in this area was 262 mg/L.

In the South Beaumont Basin, the maximum TDS concentration ranged from 240 to 690 mg/L and averaged 516 mg/L. The average TDS concentration for all samples in this area was 470 mg/L.

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

Well Classification	Count	Samples	Average Concentration	Avg Max Concentration
Beaumont Groundwater Basin				
Appropriators	15	42	230	229
Overliers	11	33	238	245
Other	4	14	260	272
Total	30	89		
Singleton Basin / Edgar Canyon Area				
All Wells	17	27	262	283
South Beaumont Basin				
All Wells	11	55	470	489

Of the 26 wells owned by appropriators and overliers, 12 wells had a maximum concentration below the anti-degradation objective of 230 mg/L, 13 wells were between the anti-degradation and maximum benefit objective of 330 mg/L, and one (BCVWD No. 16) exceeded the maximum benefit objective for the BMZ at 350 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, none of the wells had a maximum concentration below the anti-degradation objective, 15 wells were between the anti-degradation and maximum benefit objective of 330 mg/L, and the remaining two wells exceeded the maximum objective, no wells exceeded the secondary drinking standard.

In the South Beaumont Basin, none of the wells had a maximum TDS concentration below the anti-degradation objective, three wells were between this and the maximum objective, and the remaining eight wells exceeded the maximum objective. Most of the wells with the highest TDS concentrations are located in the South Beaumont Basin. Table 4-1 presents the average and maximum TDS and Nitrate (as N) concentration for all the wells in the Beaumont Basin and surrounding areas.

4.1.2 Nitrate-Nitrogen

Figure 4-3 shows the maximum Nitrate-N concentrations for 53 wells measured within and in the vicinity of the Beaumont Basin wells during the 2015-2019 reporting period. A total of 31 wells are located inside the basin with the remaining 28 in the Singleton Basin / Edgar Canyon and the South Beaumont Basin areas.

Maximum Nitrate-N concentrations for domestic wells owned by Appropriators ranged from 0.89 to 6.10 mg/L and averaged 2.49 mg/L. Maximum concentrations for overlying wells was slightly higher as they ranged from 0.26 to 6.20 mg/L and averaged 3.65 mg/L. The average concentration for all potable wells was 3.00 mg/L.

In the Singleton Basin / Edgar Canyon area, the maximum Nitrate-N concentration ranged from 0.60 to 14.0 mg/L and averaged 3.53 mg/L. The average concentration for all samples in this area was 3.06 mg/L.

In the South Beaumont Basin, the maximum Nitrate-N concentration ranged from 3.1 to 22.0 mg/L and averaged 11.31 mg/L. The average concentration for all samples in this area was 10.45 mg/L.

Average and maximum Nitrate-N concentrations for all sampled wells within the basin are as follows:

Well Classification	No. of Wells	Samples	Average Concentration	Avg Max Concentration
Beaumont Groundwater Basin				
Appropriators	15	186	2.13	2.49
Overliers	11	85	3.18	3.65
Other	5	14	1.08	1.30
Total	31	285		
Singleton Basin / Edgar Canyon Area				
All Wells	15	52	3.06	3.53
South Beaumont Basin				
All Wells	11	63	10.45	11.31

Of the 26 wells owned by appropriators and overliers, only three wells had a maximum concentration below the anti-degradation objective of 1.5 mg/L, 17 wells were between this objective and maximum benefit objective of 5.0 mg/L; six 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-N (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.

In the South Beaumont Basin, only two wells had a maximum concentration below the maximum objective while the remaining eight exceed it with six of these wells also exceeding drinking water standards. There were no wells with nitrate concentrations below the anti-degradation limit. Table 4-1 presents the average and maximum TDS and Nitrate (as N) concentration for all the wells in the Beaumont Basin and surrounding areas.

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 (Committee) as they identified potential shortcomings in sampling design and project execution. The Committee 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 is presented below for information purposes only.

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 sewering 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.

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.

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 suggest 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, available at CDPH's website, was assessed for the 2015-2019 reporting period for 20 domestic production wells in the Beaumont Basin. The objective of this analysis was to determine whether any of these potable wells exceeded the Primary or Secondary Federal and State standards or the notification levels set by the state. Federal standards are set by the United States Environmental Protection Agency (USEPA) while state standards in California are set by CDPH. 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 a secondary MCL are not considered to present a risk to human health at the established maximum level. Notification levels (NL) are not enforceable standards; however, they require that municipal water suppliers notify the public if the NL for a chemical has been exceeded.

A total of 3,914 water quality results were extracted from the CDPH database for all production wells in the Beaumont Basin. Results were obtained for 31 minerals and inorganic chemicals and over 140 organic compounds sampled between 2015 and 2019. The results of the analysis indicate that not a single well exceeded the primary Federal or State MCL for any of the analytes tested; however, one well (BCVWD No. 3 – August 2016) exceeded the secondary MCL for Iron (300 u g/L) during the reporting period. In addition, the California Notification Limit for Vanadium (100 ug/day) was exceeded once at SMWC Well No. 4 during the reporting period.

Appendix F contains summary statistics of the analytical results for the 2014-2018 period for all chemicals that have a federal or state drinking water standard as reported in the CDPH website.

4.2.1 Nitrate and Total Dissolved Solids (TDS)

A total of 204 samples were collected and analyzed for Nitrate; 34 of these samples were also analyzed for TDS. The current primary MCL for Nitrate is 45 ppm (mg/L) as NO_3; the secondary MCL for TDS is 500 mg/L. The table below presents a summary of Nitrate and TDS concentration, including the number of samples taken, average and maximum concentrations recorded, for all 20 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 33.0 mg/L of Nitrates and 350 mg/L of dissolved salts.

Table 4-1
Nitrate (NO_3) and TDS Summary for Domestic Wells (2015-19)

Agency/ Well No.	Nitrate as NO_3			Total Dissolved Solids (TDS)		
	Count	Avg	Max	Count	Ave	Max
City of Banning						
Well C-2A	5	8.6	9.0	1	240	240
Well C-3	6	7.6	8.1	1	170	170
Well C-4	5	4.3	5.0	1	190	190
Well M-3	6	9.0	9.9	2	290	300
Beaumont Cherry Valley Water District						
Well 03	2	4.8	7.7	1	240	240
Well 16	33	26.9	33	2	340	350
Well 21	33	14.6	16.2	2	280	290
Well 22	4	6.3	13.5	2	240	260
Well 23	14	10.9	13.1	3	230	260
Well 24	5	7.5	8.1	2	210	210
Well 25	4	5.1	7.2	1	230	230
Well 26	2	3.4	4.0	1	180	180
Well 29	4	9.2	10.4	2	215	220
Yucaipa Valley Water District						
Well 48	5	8.6	9.9	3	157	*210*
South Mesa Water Company						
Well 4	12	16.8	22.1	2	185	190
Overlying Users						
Sharondale 1	21	20.8	27	2	290	320
Sharondale 2	14	22.1	26.6	2	290	320
Plantation 1	4	8.3	9.0	1	270	270
RCMHP 1	7	20.1	24.8	2	260	260
RCMHP 2	18	24.2	27.9	2	270	270

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. Trace metals are briefly discussed here and compared to previous reporting periods.

Aluminum. There were 32 water samples taken during the reporting period and tested for aluminum. Aluminum concentration at all wells, except the city of Banning M-3 Well, was below 50 ug/L, significantly below the secondary MCL of 200 ug/L. Banning M-3 had a maximum concentration of 57 ug/L. Aluminum above the MCL can add color to water. One well exceeded the MCL during the FY 2004-08 reporting period.

Arsenic. The current MCL for Arsenic has been set to 10 ug/L. There were 34 water samples collected and tested for arsenic during the reporting period with most wells reporting under 2.0 ug/L. The highest arsenic concentration was observed at SMWC's Well No. 4; arsenic concentration at this well 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. Latest value, recorded in April 2019, arsenic concentration was down to 3.8 ug/L. YVWD reported a concentration of 2.5 ug/L in July 2017 at Well No. 48. Based on the latest values reported, arsenic continues to be a non-issue in the Beaumont basin.

Iron. A total of 32 water samples were taken during the reporting period and tested for iron. In most cases iron concentration was below 100 ug/L., which is significantly below the current secondary MCL of 300 ug/L. However, there is one well that exceeded the MCL during the 2014-19 period, BCVWD Well No. 3 at 450 ug/L (Aug 2016). Iron at a concentration above the MCL can impact color, odor, and taste in water. Five wells exceeded the MCL during the FY 2004-08 reporting period.

Lead. There were 32 water samples collected and tested for lead during the reporting period. Lead concentrations were all below 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 Well No. 1 (0.0058 mg/L). One well exceeded the MCL during the FY 2004-08 reporting period.

Manganese. There were 32 water samples taken during the reporting period and tested for Manganese. Manganese concentration at all wells was below 20 ug/L, significantly below the secondary MCL of 50 ug/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 32 water samples were taken during the reporting period and tested for total chromium. The highest reported concentrations of total chromium were observed in December 2018 at BCVWD Well 26 at 16 ug/L and in March 2017 at Banning C-3 at 15 ug/L. Both of 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 the SMWC well has been consistently hovering around 100 ug/L doubling the state notification level of 50 ug/L. Vanadium concentration at YVWD No. 48 was 25 ug/L in 2014, but increase to 90 ug/L in the summer of 2017.

Copper. There were 32 water samples collected and tested for copper during the reporting period. None of the wells tested during the reporting period exceeded the detection limit of 50 ug/L. This concentration is significantly below the state primary MCL of 1,300 ug/L. This is consistent with previous reporting periods.

Zinc. There were 32 water samples collected and tested for zinc during the reporting period. Zinc concentration in all wells was below 50 ug/L (ppb), which is significantly lower than the current secondary MCL of 50 mg/l (ppm).

4.2.3 Organic Compounds

There were over 2,200 lab results for 143 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. Organics of special concern include the following:

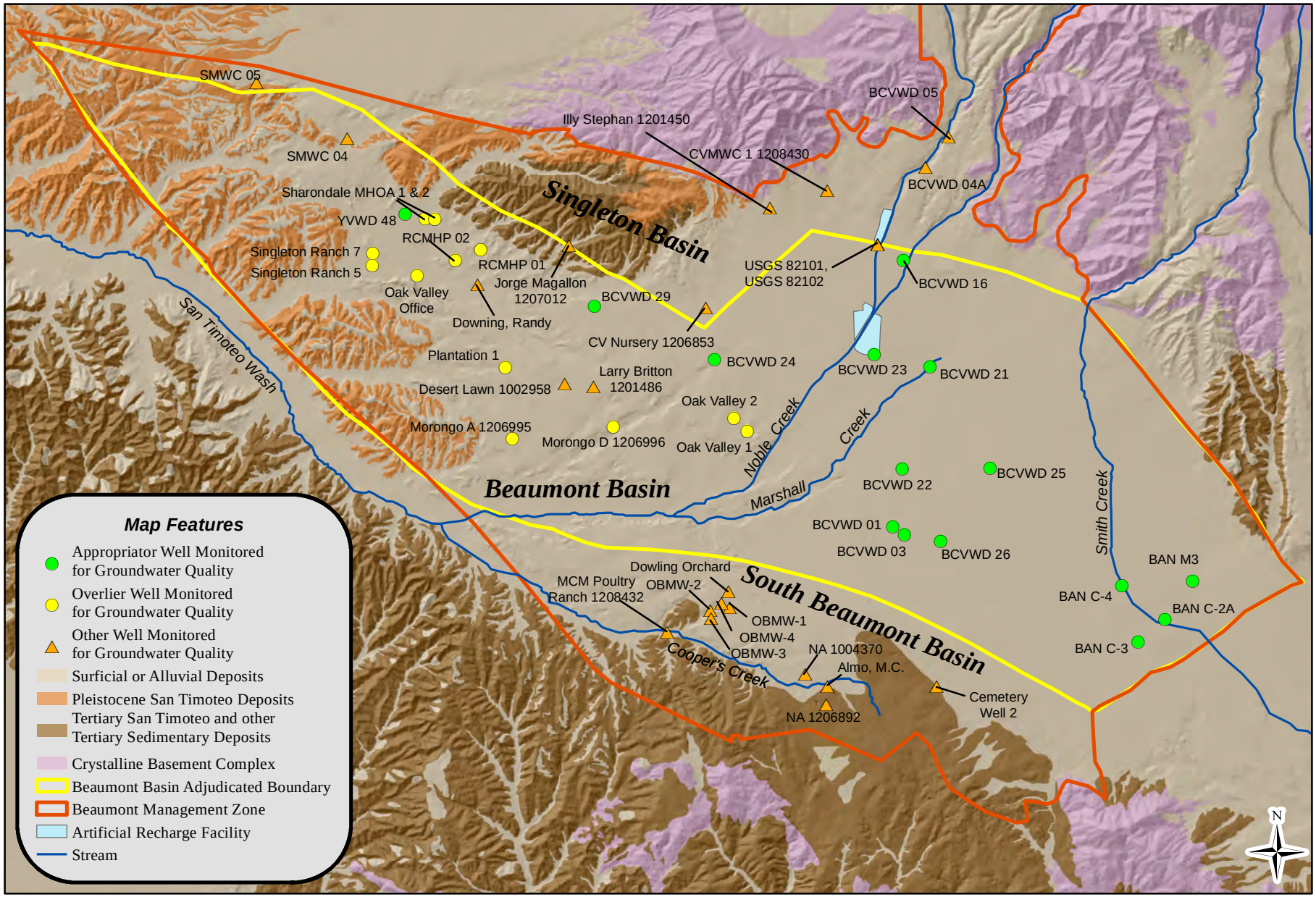
- ✓ TCE – Trichloroethylene (TCE) – 30 samples collected all reported below detection limit of 0.5 ug/L. Current MCL is 5 ug/L.
- ✓ Tetrachloroethylene (PCE) - 30 samples collected all reported below detection limit of 0.5 ug/L. Current MCL is 5 ug/L.
- ✓ Dibromo-chloropropane (DBCP) - 20 samples collected with most below the detection limit of 0.01 ug/L; just two samples above this limit at BCVWD Well No. 23 at 0.048 ug/L (Jun 2019), 0.044 ug/L (Dec 2018), and at 0.028 ug/L (Dec 2015). 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 Well No. 4 at 8.8 (April 2016) and YVWD Well 48 at 8.7 (Jul 17) In addition, there are several wells with pH in the 8.0 to 8.4 range including Sharondale Mesa HOA Well No. 1 at 8.4, BCVWD Wells No. 23, 25, and 26 and Sharondale Mesa HOA Well No. 2 at 8.3, BCVWD Wells No. 21 and 29 and the City of Banning Well M-3 at 8.2. The lowest pH was reported from BCVWD Well No. 22 at 7.4. 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. All production wells in the Basin were tested for turbidity and none exceeded the primary federal and state MCL of 5 NTU. A total of 32 water samples were tested for turbidity.

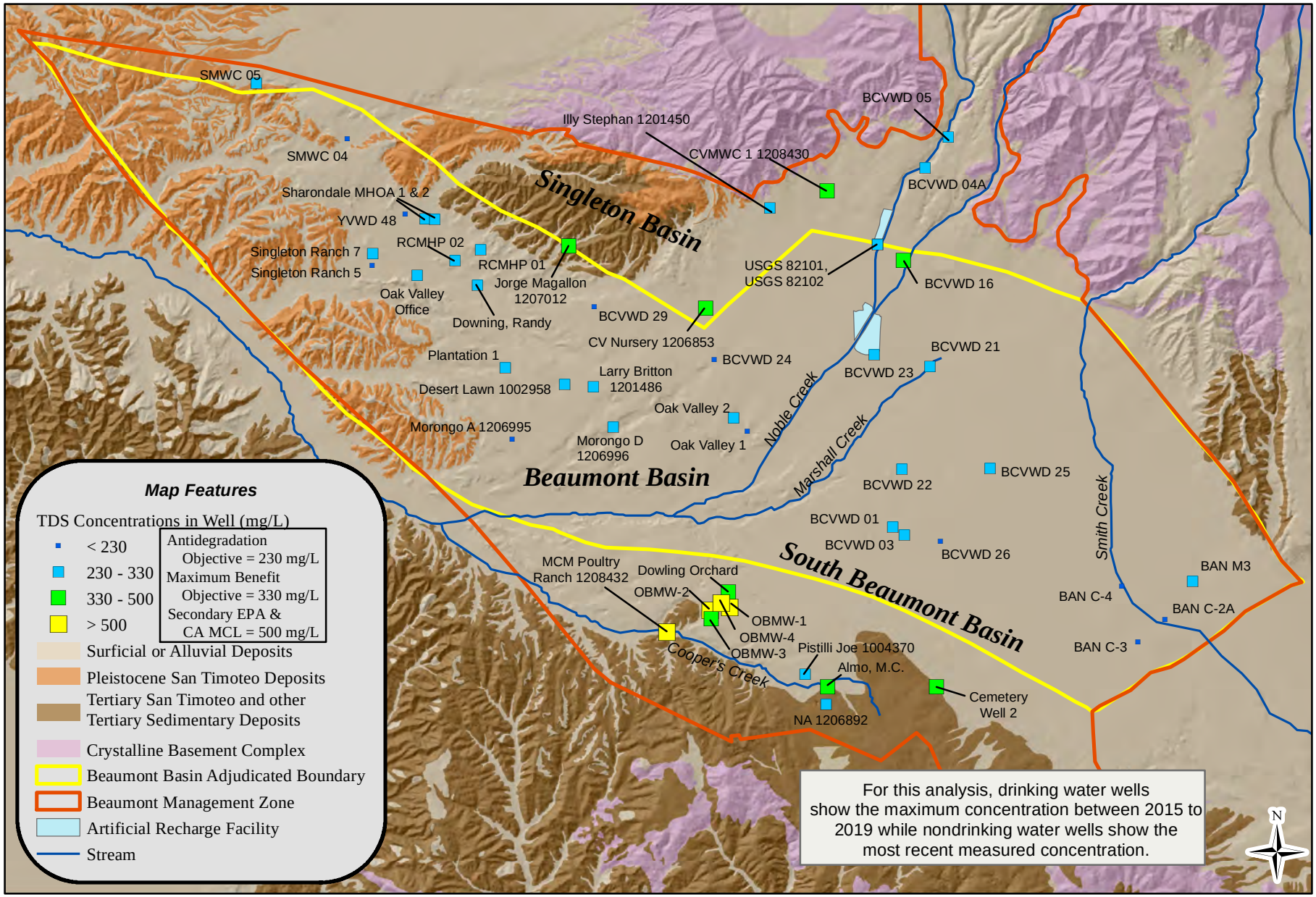


Alda, Inc. *in association with*
Thomas Harder & Co. Groundwater Consulting

0 0.5 1 2 Miles
NAD 83 UTM Zone 11

Wells with Groundwater Quality Data in the Beaumont Basin

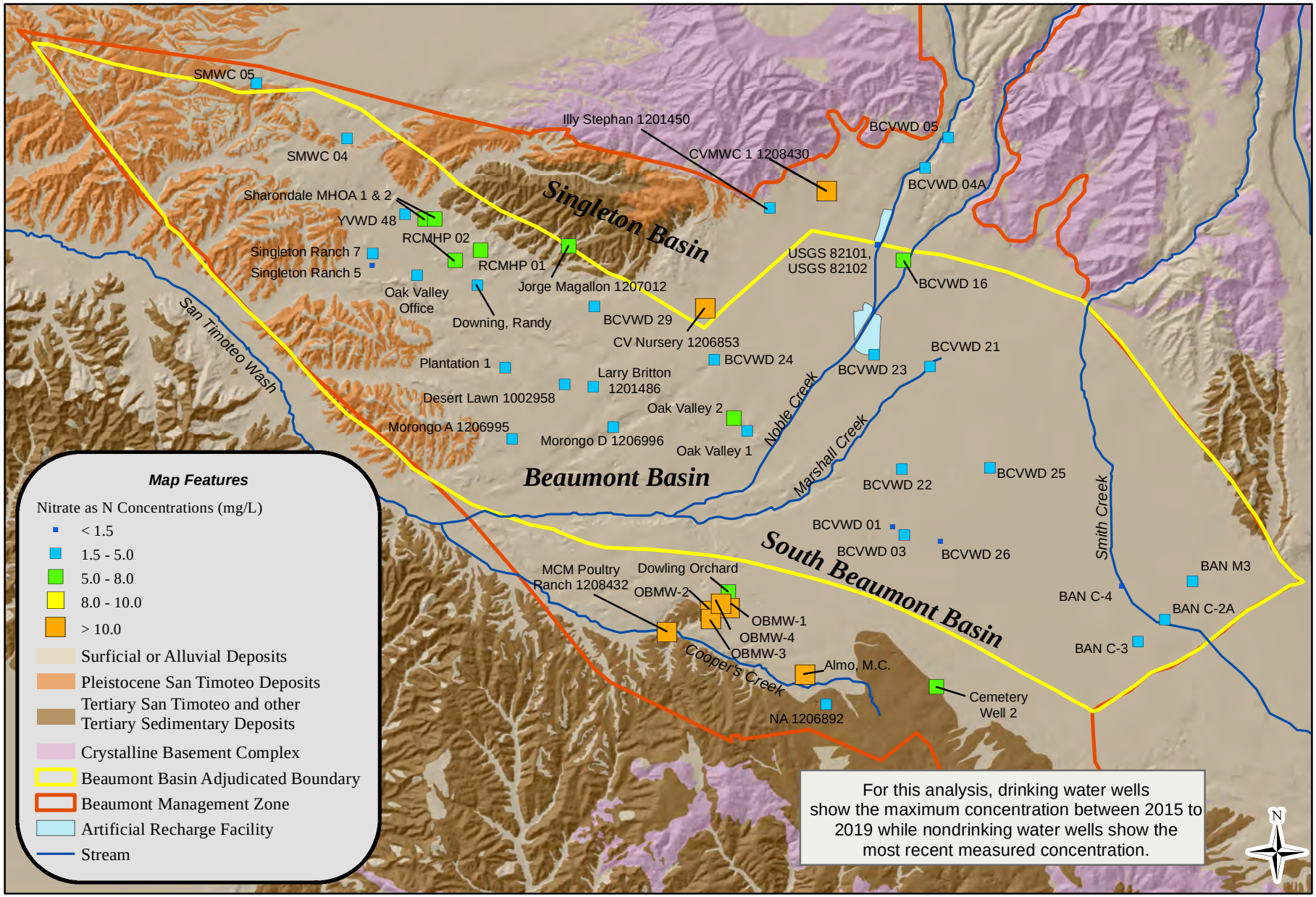
Figure 4-1



Alda, Inc. *in association with*
Thomas Harder & Co. Groundwater Consulting

Total Dissolved Solids in Groundwater (Maximum Concentrations 2015 to 2019)

Figure 4-2



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Nitrate in Groundwater (Maximum Concentrations 2015 to 2019)

Figure 4-3

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 fairly 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
Board Resolutions 19-01 & 19-02

A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER TO AMEND THE JUDGMENT AT THE RIVERSIDE SUPERIOR COURT'S REQUEST TO CORRECT A CLERICAL ERROR—AN INCORRECT REFERENCE TO "8610 ACRE FEET" ON JUDGMENT, PAGE 7, LINE 26—CORRECTING SUCH TO "8650 ACRE FEET"

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

WHEREAS, the Stipulated Judgment grants to the Riverside Superior Court (the "Court") "[f]ull jurisdiction, power and authority is retained and reserved to the Court for purposes of enabling the Court…to make such further or supplemental order or directions as may be necessary or appropriate…[to include order] to modify, amend or amplify any of the provisions of this Judgment…", pursuant to Stipulated Judgment, IV CONTINUING JURISDICTION, page 12:27-13:8;

WHEREAS, the Court reviewed the Stipulated Judgment on September 17, 2018, noting the clerical error in terms of the reference to "8610 acre feet" as the alleged "Projected Maximum Production of water from Beaumont Basin pursuant to Overlying Water Rights…in Column 4 of Exhibit "B,"…" which is actually 8650 acre feet based on Exhibit "B," and appears to have been corrected by some unknown party, and confirmed on the Stipulated Judgment, page 7:26, and further issuing an Order for the amendment of the Stipulated Judgment to correct this "clerical error." See, the attached Tentative Opinion, attached to this Resolution as Exhibit "A,";

WHEREAS, BBW is proposing to file to the Court the attached "Amended Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin", attached as Exhibit "B," which merely corrects the clerical error on the Stipulated Judgment, page 7:26 to substitute "8610" for "8650."

WHEREAS, the Beaumont Basin Watermaster issued copies of the Amended Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin to members of its Watermaster Committee for review in advance of the December 5, 2018, Beaumont Basin Watermaster meeting; and,

WHEREAS, the Beaumont Basin Watermaster met on December 5, 2018 to take this matter up, finding that the foregoing is true and accurate, and;

NOW, THEREFORE, BE IT RESOLVED BY THE BEAUMONT BASIN WATERMASTER that it does hereby adopt the Amended Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin establishing the Beaumont Basin Watermaster (Riverside Superior Court Case No. 389197), the attached Exhibit "B."

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PASSED AND ADOPTED this 6th day of February, 2018.

BEAUMONT BASIN WATERMASTER

By: _____
Art Vela, Chairman of the
Beaumont Basin Watermaster

EXHIBIT A

3

RIC389197	SAN TIMOTEO WATERSHED MANAGEMENT AUTHORITY V. CITY OF BANNING	MOTION BY BEAUMONT BASIN WATERMASTER TO APPOINT ALTERNATE MEMBER TO WATERMASTER

Tentative Ruling:

The unopposed motion is granted. The proposed order will be signed as modified.

Counsel for the Watermaster shall nevertheless appear at the hearing and be prepared to address the following questions:

1. The copy of the judgment attached to the declaration of Montoya (at p. 7) appears to reflect a clerical correction. Is that correct? If so, has the judgment ever been amended to make that correction?
2. The text of the judgment (at ¶ I.4) refers to Exhibits A through E. The copy in the Court's file does not include Exhibit E. The copy attached to the declaration of Montoya also omits Exhibit E. Does the Watermaster have a copy of Exhibit E?
3. The declaration of Montoya includes an Exhibit C, to which the text of the declaration does not appear to refer. What is that document?
4. Exhibit A to the judgment appears to have been in color originally. When it was scanned by the Court upon the Court's conversion from paper files, it was scanned in black and white. Does the Watermaster have a copy of Exhibit A in color?
5. Paragraph V.3 of the judgment says that "the Beaumont Basin is at or near a condition of Overdraft." Is that still the case? Is that condition improving, worsening, or staying relatively constant?
6. Paragraph V.3 of the judgment directs the Watermaster to bring an action or a motion to enjoin any Production that is not in accordance with the terms of the Judgment. Has such an enforcement action ever been taken? If so, with what result?
7. Paragraph VI.2 of the judgment authorizes the Watermaster to develop and implement a groundwater management plan and program for the Beaumont Basin, which plan shall be filed with the Court and shall be subject to review and approval by the Court. Has such a plan ever been developed? If not, why not?
8. Paragraph VI.5.Y of the judgment requires the Watermaster to re-determine the safe yield of the basin at least every 10 years, beginning in 2014. Was that done in 2014? When does the Watermaster anticipate doing so again? Does the judgment require that safe-yield determination to be approved by the Court?
9. Paragraph VII.2 of the judgment authorizes intervention by nonparties. Has that ever occurred?

EXHIBIT B

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EXEMPT FROM FILING FEES
GOVERNMENT CODE § 6103

Attorneys for Defendant
Beaumont Basin Watermaster

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF RIVERSIDE

CENTRAL DISTRICT

SAN TIMOTEO WATERSHED MANAGEMENT AUTHORITY, a public agency

Plaintiff,

vs

CITY OF BANNING, a municipal corporation; BEAUMONT-CHERRY VALLEY WATER DISTRICT, an irrigation district; YUCAIPA VALLEY WATER DISTRICT, a county water district; PLANTATION ON THE LAKE LLC, a California limited liability company; SHARONDALE MESA OWNERS ASSOCIATION; an unincorporated association; SOUTH MESA MUTUAL WATER COMPANY, a mutual water company, CALIFORNIA OAK VALLEY GOLF AND RESORT LLC, a California limited liability company; OAK VALLEY PARTNERS LP, a Texas limited partnership; SOUTHERN CALIFORNIA SECTION OF THE PROFESSIONAL GOLFERS ASSOCIATION OF AMERICA, a California corporation; SUNNY-CAL EGG AND POULTRY COMPANY, a California corporation; MANHEIM, MANHEIM & BERMAN, a California General Partnership; WALTER M. BECKMAN, individually and as Trustee of the BECKMAN FAMILY TRUST dated December 11, 1990; THE ROMAN CATHOLIC BISHOP OF SAN BERNARDINO, a California

CASE NO.: RIC 389197

JUDGE: Craig G. Riemer
DEPT: 5

AMENDED JUDGMENT PURSUANT TO STIPULATION ADJUDICATING GROUNDWATER RIGHTS IN THE BEAUMONT BASIN

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Corporation; MERLIN PROPERTIES, LLC; LEONARD M. STEARNS AND DOROTHY D. STEARNS, individually and as Trustees of the LEONARD M. STEARNS FAMILY TRUST OF 1991; and DOES 1 through 500, inclusive,

Defendants.

I. INTRODUCTION

1. Pleadings, Parties and Jurisdiction

The complaint herein was filed on February 20, 2003, seeking an adjudication of water rights, injunctive relief and the imposition of a physical solution. The defaults of certain defendants have been entered, and certain other defendants dismissed. Other than defendants who have been dismissed or whose defaults have been entered, all defendants have appeared herein. This Court has jurisdiction of the subject matter of this action and of the parties herein.

2. Stipulation for Judgment

Stipulation for Entry of Judgment has been filed by and on behalf of all defendants who have appeared herein.

3. Definitions

As used in this Judgment, these terms shall have the following meanings:

A. Appropriator or Appropriator Parties: the pumpers identified in Exhibit "C" attached hereto.

B. Appropriator's Production Right: 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.

C. Appropriative Water: the amount of Safe Yield remaining after satisfaction of Overlying Water Rights.

D. Appropriative Water Right: each Appropriator's share of Appropriative Water, such share expressed as a percentage as shown on Exhibit "C"

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E. Beaumont Basin or Beaumont Storage Unit: the area situated within the boundaries shown on Exhibit "A" attached hereto.

F. Conjunctive Use: the storage of water in a Groundwater Basin for use at a later time.

G. Groundwater: water beneath the surface of the ground within the zone below the water table in which soil is saturated with water.

H. Groundwater Basin: an area underlain by one or more permeable formations capable of furnishing a substantial water supply.

I. Groundwater Storage Agreement: a standard form of written agreement between the Watermaster and any Person requesting the storage of Supplemental Water.

J. Groundwater Storage Capacity: the space available in a Groundwater Basin that is not utilized for storage or regulation of Safe Yield and is reasonably available for Stored Water and Conjunctive Use.

K. Minimal Producer: any Producer who pumps 10 or fewer acre feet of Groundwater from the Beaumont Basin per year.

L. New Yield: increases in yield in quantities greater than historical amounts from sources of supply including, but not limited to, capture of available storm flow, by means of projects constructed after February 20, 2003, as determined by the Watermaster.

M. Operating Yield: 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.

N. Overdraft: a condition wherein the total annual production from a Groundwater Basin exceeds the Safe Yield thereof.

O. Overlying Parties: the Persons listed on Exhibit "B", 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.

P. Overlying Water Rights: the quantities decreed to Overlying Parties in Column 4 of Exhibit "B" to this Judgment.

Q. Overproduction: by an Appropriator, measured by an amount equal to the Appropriator's actual annual production minus the Appropriator's Production Right. By a new overlying producer, an amount equal to what the overlying producer pumped during the year.

R. Party (Parties): any Person(s) named in this action, or who has intervened, or has become subject to this Judgment either through stipulation, trial or otherwise.

S. Person: any individual, partnership, association, corporation, governmental entity or agency, or other organization.

T. Physical Solution: the physical solution set forth in Part V of this Judgment.

Produce, Producing, Production, Pump or Pumping: the extraction of groundwater.

U. Producer or Pumper: any Person who extracts groundwater.

V. Recycled Water: has the meaning provided in Water Code Section 13050(n) and includes other nonpotable water for purposes of this Judgment.

W. Safe Yield: the maximum quantity of water which can be produced annually from a Groundwater Basin under a given set of conditions without causing a gradual lowering of the groundwater level leading eventually to depletion of the supply in storage. The Safe Yield of the Beaumont Basin is 8650 acre feet per year in each of the ten (10) years following entry of this Judgment.

X. San Timoteo Watershed Management Authority: a joint powers public agency whose members are the Beaumont-Cherry Valley Water District, the City of Beaumont, the South Mesa Mutual Water Company and the Yucaipa Valley Water District.

Y. Stored Water: Supplemental Water stored in the Beaumont Basin pursuant to Groundwater Storage Agreement with the Watermaster.

Z. Supplemental Water: water imported into the Beaumont Basin from outside the Beaumont Basin including, without limitation, water diverted from creeks upstream and tributary to Beaumont Basin and water which is recycled and useable within the Beaumont Basin.

AA. Temporary Surplus: the amount of groundwater that can be pumped annually in excess of Safe Yield from a Groundwater Basin necessary to create enough additional storage capacity to prevent the waste of water.

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BB. Watermaster: the Person appointed by the Court to administer and enforce the Physical Solution.

4. List of Exhibits

The following exhibits are attached to this Judgment and made a part hereof:

Exhibit "A" - - "Location Map of Beaumont Basin"
Exhibit "B" - -"Overlying Owners and Their Water Rights"
Exhibit "C" - - "Appropriators and Their Water Rights"
Exhibit "D" - -"Legal Description of Lands of the Overlying Parties"
Exhibit "E"" - - "Location of Overlying Producer Parcels" and Boundary of the Beaumont Basin"

II. INJUNCTIONS

1. Injunction Against Unauthorized Production of Beaumont Basin Water

Each party herein is enjoined, as follows:

A. Overlying Parties: Each defendant who is an Overlying Party, and its officers, agents, employees, successors and assigns, is hereby enjoined and restrained from producing groundwater from the Beaumont Basin in any five-year period hereafter in excess of five times the share of the Safe Yield assigned to the Overlying Parties as set forth in Column 4 of Exhibit "B", as more fully described in the Physical Solution.

B. Appropriator Parties: Each defendant who is an Appropriator Party, and its officers, agents, employees, successors and assigns, is hereby enjoined and restrained from producing groundwater from the Beaumont Basin in any year hereafter in excess of such party's Appropriator's Production Right, except as additional annual Production may be authorized by the provisions of the Physical Solution.

2. Injunction Against Unauthorized Storage or Withdrawal of Stored Water.

Each and every Party, and its officers, agents, employees, successors and assigns, is hereby enjoined and restrained from storing Supplemental Water in the Beaumont Basin for withdrawal, or causing withdrawal of water stored by that Party, except pursuant to the terms of a written Groundwater Storage Agreement with the Watermaster and in accordance with Watermaster Rules and Regulations. Any Supplemental Water stored in the Beaumont Basin, except pursuant to a Groundwater Storage Agreement, shall be deemed abandoned and not classified as Stored Water.

III. DECLARATION AND ADJUSTMENT OF RIGHTS

1. Overlying Rights

The Overlying Parties are currently exercising overlying Water Rights in the Beaumont Basin. As shown on Exhibit "B", the aggregate Projected Maximum Production of water from the Beaumont Basin pursuant to Overlying Water Rights is 8650 acre feet and the Overlying Water Rights are individually decreed, in Column 4 of Exhibit "B", for each Overlying Party. The Overlying Parties shall continue to have the right to exercise their respective Overlying Water Right as set forth in Column 4 of Exhibit "B" except to the extent their respective properties receive water service from an Appropriator Party, as contemplated by Paragraph III.3 of this Judgment.

2. Appropriator's Share of Operating Yield

Each Appropriator Party's share of Operating Yield is shown on Exhibit "C". Notwithstanding any other provision of this Judgment, each Appropriator Party may use its Appropriator's Production Right anywhere within its service area.

3. Adjustment of Rights

A. The Overlying Parties shall have the right to exercise their respective Overlying Water Rights except as provided in this Paragraph 3.

B. To the extent any Overlying Party requests, and uses its Exhibit "B", Column 4 water to obtain water service from an Appropriator Party, an equivalent volume of potable groundwater shall be earmarked by the Appropriator Party which will serve the Overlying Party, up to the volume of the Overlying Water Right as reflected in Column 4 of Exhibit "B" attached hereto, for the purpose of serving the Overlying Party. The intent of this provision is to ensure that the Overlying Party is given credit towards satisfying the water availability assessment provisions of Government Code, Section 66473.7 et seq. and Water Code, Section 10910 et seq. or other similar provisions of law, equal to the amount of groundwater earmarked hereunder.

C. When an overlying Party receives water service as provided for in subparagraph III.3.B the Overlying Party shall forebear the use of that volume of the Overlying Water Right earmarked by the Appropriator Party. The Appropriator Party providing such service

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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.

D. Should the volume of the Overlying Water Right equal or exceed the volume of potable groundwater earmarked as provided in subparagraph 3.B, the Appropriator Party which will serve the Overlying Party shall (i) impose potable water charges and assessments upon the Overlying Party and its successors in interest at the rates charged to the then-existing regular customers of the Appropriator Party, and (ii) not collect from such Overlying Party any development charge that may be related to the importation of water into the Beaumont Basin. The Appropriator Party which will serve the Overlying Party pursuant to Subparagraph 111.3.5 shall also consider, and negotiate in good faith regarding, the provision of a meaningful credit for any pipelines, pump stations, wells or other facilities that may exist on the property to be served.

E. In the event an Overlying Party receives Recycled Water from an Appropriator Party to serve an overlying use served with groundwater, the Overlying Water Right of the Overlying Party shall not be diminished by the receipt and use of such Recycled Water. Recycled Water provided by an Appropriator Party to an Overlying Party shall satisfy the criteria set forth in the California Water Code including, without limitation, the criteria set forth in Water Code Sections 13550 and 13551. The Appropriator Party which will serve the Recycled Water shall have the right to use that portion of the Overlying Water Right of the Overlying Party offset by the provision of Recycled Water service pursuant to the terms of this subparagraph; provided, however, that such right of use by the Appropriator Party shall no longer be valid if the Recycled Water, provided by the Appropriator Party to the Overlying Party, does not satisfy the requirements of Sections 13550 and 13551 and the Overlying Party ceases taking delivery of such Recycled Water.

F. Nothing in this Judgment is intended to impair or adversely affect the ability of an Overlying Party to enter into annexation or development agreements with any Appropriator Party.

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G. Oak Valley Partners LP ("Oak Valley") is developing its property pursuant to Specific Plans 216 and 216A adopted by the County of Riverside ("County") in May 1990, and Specific Plan 318 adopted by the County in August, 2001, (Specific Plans 216, 216A and 318 are collectively referred to as the "Specific Plans"). The future water supply needs at build-out of the Specific Plans will greatly exceed Oak Valley's Projected Maximum Production, as reflected in Exhibit "B" to the Judgment, and may be as much as 12,811 acre feet per year. Oak Valley has annexed the portion of its property now within the City of Beaumont into the Beaumont-Cherry Valley Water District ("BCVWD"), and is in the process of annexing the remainder portion of its property into the Yucaipa Valley Water District ("YVWD"), in order to obtain retail water service for the development of the Oak Valley Property pursuant to the Specific Plans (for purposes of this subparagraph BCVWD and YVWD are collectively referred to as the "Water Districts", and individually as a "Water District"). YVWD covenants to use its best efforts to finalize the annexation of the Oak Valley property within the Calimesa City limits. Oak Valley, for itself and its successors and assigns, hereby agrees, by this stipulation and upon final annexation of its property by YVWD, to forbear from claiming any future, unexercised, overlying rights in excess of the Projected Maximum Production of Exhibit "B" of 1806 acre feet per year. As consideration for the forbearance, the Water Districts agree to amend their respective Urban Water Management Plans ("UWMP") in 2005 as follows: BCVWD agrees that 2,400 acre feet per year of projected water demand shall be included for the portion of. Oak Valley to be served by BCVWD in its UWMP, and YVWD agrees to include 8,000 acre feet per year of projected water demand as a projected demand for the portion of Oak Valley to be served by YVWD in its UWMP by 2025. The Water Districts agree to use their best judgment to accurately revise this estimate to reflect the projected water demands for the UWMP prepared in 2010. Furthermore, the Water Districts further agree that, in providing water availability assessments prior to 2010, as required by Water Code §10910 and water supply verifications as required by Government Code §§66455.3 and 66473.7, or any similar statute, and in maintaining their respective UWMP, each shall consider the foregoing respective

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projected water demand figures for Oak Valley as proposed water demands. The intent of the foregoing requirements is to ensure that Oak Valley is credited for the forbearance of its overlying water rights and is fully accounted for in each Water District's UWMP and overall water planning. The Water Districts' actions in performance of the foregoing planning obligations shall not create any right or entitlement to, or priority or allocation in, any particular water supply source, capacity or facility, or any right to receive water service other than by satisfying the applicable Water District's reasonable requirements relating to application for service. Nothing in this subparagraph G is intended to affect or impair the provision of earmarked water to Overlying Parties who request and obtain water service from Appropriator Parties, as set forth in subparagraph III.3.B, above.

H. Persons who would otherwise qualify as Overlying Producers based on, an interest in land lying within the City of Banning's service area shall not have the rights described in this Paragraph 111.3.

4. Exemption for Minimal Producers

Unless otherwise ordered by the Court, Minimal Producers are exempt from the provisions of this Judgment.

IV. CONTINUING JURISDICTION

Full jurisdiction, power and authority is retained and reserved to the Court for purposes of enabling the Court, upon application of any Party, by a motion noticed for at least a 30-day period (or consistent with the review procedures of Paragraph VII.6 herein, if applicable), to make such further or supplemental order or directions as may be necessary or appropriate for interim operation of the Beaumont Basin before the Physical Solution is fully operative, or for interpretation, or enforcement or carrying out of this Judgment, and to modify, amend or amplify any of the provisions of this Judgment or to add to the provisions hereof consistent with the rights herein decreed; except that the Court's jurisdiction does not extend to the redetermination of (a) Safe Yield during the first ten years of operation of the Physical Solution, and (b) the fraction of the share of Appropriative Water of each Appropriator.

V. THE PHYSICAL SOLUTION

1. Purpose and Objective

In accordance with the mandate of Section 2 of Article X of the California Constitution, the Court hereby adopts, and orders the parties to comply with, a Physical Solution. The purpose of the Physical Solution is to establish a legal and practical means for making the maximum reasonable beneficial use of the waters of Beaumont Basin, to facilitate conjunctive utilization of surface, ground and Supplemental Waters, and to satisfy the requirements of water users having rights in, or who are dependent upon, the Beaumont Basin. Such Physical Solution requires the definition of the individual rights of all Parties within the Beaumont Basin in a manner which will fairly allocate the native water supplies and which will provide for equitable sharing of costs of Supplemental water.

2. Need for Flexibility

The Physical Solution must provide maximum flexibility and adaptability in order that the Watermaster and the Court may be free to use existing and future technological, social, institutional and economic options. To that end, the Court's retained jurisdiction shall be utilized, where appropriate, to supplement the discretion granted herein to the Watermaster.

3. Production and Storage in Accordance With Judgment

This Judgment, and the Physical Solution decreed herein, address all Production and Storage within the Beaumont Basin. Because the Beaumont Basin is at or near a condition of Overdraft, any Production outside the framework of this Judgment and Physical Solution will potentially damage the Beaumont Basin, injure the rights of all Parties, result in the waste of water and interfere with the Physical Solution. The Watermaster shall bring an action or a motion to enjoin any Production that is not in accordance with the terms of this Judgment.

4. General Pattern of Operation

One fundamental premise of the adjudication is that all Producers shall be allowed to pump sufficient water from the Beaumont Basin to meet their respective requirements. Another fundamental premise of the adjudication is that Overlying Parties who pump no more than the amount of their Overlying Water Right as shown on Column 4 of Exhibit "B" hereto, shall not be charged for the replenishment of the Beaumont Basin. To the extent that pumping exceeds five (5) times the share of the Safe Yield assigned to an Overlying Party (Column 4 of Exhibit "B") in any five (5) consecutive years,

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or the share of Operating Yield Right of each Appropriator Party, each such Party shall provide funds to enable the Watermaster to replace such Overproduction.

5. Use of Available Groundwater Storage Capacity

A. There exists in the Beaumont Basin a substantial amount of available Groundwater Storage Capacity. Such Capacity can be reasonably used for Stored Water and Conjunctive Use and may be used subject to Watermaster regulation to prevent injury to existing Overlying and Appropriative water rights, to prevent the waste of water, and to protect the right to the use of Supplemental Water in storage and Safe Yield of the Beaumont Basin.

B. There shall be reserved for Conjunctive Use a minimum of 200,000 acre feet of Groundwater Storage Capacity in the Beaumont Basin provided that such amount may be reduced as necessary to prevent injury to existing water rights or existing uses of water within the Basin, and to prevent the waste of water. Any Person may make reasonable beneficial use of the Groundwater Storage Capacity for storage of Supplemental Water; provided, however, that no such use shall be made except pursuant to a written Groundwater Storage Agreement with the Watermaster. The allocation and use of Groundwater Storage Capacity shall have priority and preference for Producers within the Beaumont Basin over storage for export. The Watermaster may, from time-to-time, redetermine the available Groundwater Storage Capacity.

VI. ADMINISTRATION

1. Administration and Enforcement by Watermaster

The Watermaster shall administer and enforce the provisions of this Judgment and any subsequent order or instructions of the Court.

2. Watermaster Control

The Watermaster is hereby granted discretionary powers to develop and implement a groundwater management plan and program for the Beaumont Basin, which plan shall be filed with and shall be subject to review and approval by, the Court, and which may include water quantity and quality considerations and shall reflect the provisions of this Judgment. Except for the exercise by Overlying Parties of their respective Rights described in Column 4 of Exhibit "B" hereto in accordance with the provisions of the Physical Solution, groundwater extractions and the replenishment thereof, and the

storage of Supplemental Water, shall be subject to procedures established and administered by the Watermaster. Such procedures shall be subject to review by the Court upon motion by any Party.

3. Watermaster Standard of Performance

The Watermaster shall, in carrying out its duties and responsibilities herein, act in an impartial manner without favor or prejudice to any Party or purpose of use.

4. Watermaster Appointment

The Watermaster shall consist of a committee composed of persons nominated by the City of Banning, the City of Beaumont, the Beaumont-Cherry Valley Water District, the South Mesa Mutual Water Company and the Yucaipa Valley Water District, 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. Each such nomination shall be made in writing, served upon the other parties to this Judgment and filed with the Court, which shall approve or reject such nomination. Each Watermaster representative shall serve until a replacement nominee is approved by the Court. The nominating agency shall have the right to nominate that representative's successor.

5. Powers and Duties of the Watermaster

Subject to the continuing supervision and control of the Court, the Watermaster shall have and may exercise the following express powers, and shall perform the following duties, together with any specific powers, authority, and duties granted or imposed elsewhere in this Judgment or hereafter ordered or authorized by the Court in the exercise of its continuing jurisdiction:

A. Rules and Regulations: The adoption of appropriate rules and regulations for the conduct of Watermaster affairs, copies of which shall be provided to all interested parties.

B. Wellhead Protection and Recharge: The identification and management of wellhead protection areas and recharge areas.

C. Well Abandonment: The administration of a well abandonment and well destruction program.

D. Well Construction: The development of minimum well construction specifications and the permitting of new wells.

E. Mitigation of Overdraft: The mitigation of conditions of uncontrolled overdraft.

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F. Replenishment: The acquisition and recharge of Supplemental Water.

G. Monitoring: The monitoring of groundwater levels, ground levels, storage, and water quality.

H. Conjunctive Use: The development and management of conjunctive-use programs.

I. Local Projects: The coordination of construction and operation, by local agencies, of recharge, storage, conservation, water recycling, extraction projects and any water resource management activity within or impacting the Beaumont Basin.

J. Land Use Plans: The review of land use plans and coordination with land use planning agencies to mitigate or eliminate activities that create a reasonable risk of groundwater contamination.

K. Acquisition of Facilities: The purchase, lease and acquisition of all necessary real and personal property, including facilities and equipment.

L. Employment of Experts and Agents: The employment or retention of such technical, clerical, administrative, engineering, accounting, legal or other specialized personnel and consultants as may be deemed appropriate. The Watermaster shall maintain records allocating the cost of such services as well as all other expenses of Watermaster administration.

M. Measuring Devices: Except as otherwise provided by agreement the Watermaster shall install and maintain in good operating condition, at the cost of the Watermaster, such necessary measuring devices or meters as Watermaster may deem appropriate. Such devices shall be inspected and tested as deemed necessary by the Watermaster and the cost thereof borne by the Watermaster. Meter repair and retesting will be a Producer expense.

N. Assessments: The Watermaster is empowered to levy and collect the following assessments:

(1) Annual Replenishment Assessments

The Watermaster shall levy and collect assessments in each year, in amounts sufficient to purchase replenishment water to replace Overproduction by any Party.

(2) Annual Administrative Assessments

a. Watermaster Expenses: The expenses of administration of the Physical Solution shall be categorized as either "General Watermaster Administration Expenses", or "Special Project Expenses".

i. General Watermaster Administration Expenses: shall include office rent, labor, supplies, office equipment, incidental expenses and general overhead. General Watermaster Administration Expenses shall be assessed by the Watermaster equally against the Appropriators who have appointed representatives to the Watermaster.

ii. Special Project Expenses: shall include special engineering, economic or other studies, litigation expenses, meter testing or other major operating expenses. Each such project shall be assigned a task order number and shall be separately budgeted and accounted for. Special Project Expenses shall be allocated to the Appropriators, or portion thereof, on the basis of benefit.

O. Investment of Funds; Borrowing: The Watermaster may hold and invest Watermaster funds as authorized by law, and may borrow, from time-to-time, amounts not exceeding annual receipts.

P. Contracts: The Watermaster may enter into contracts for the performance of any of its powers.

Q. Cooperation With Other Agencies: The Watermaster may act jointly or cooperate with other local, state and federal agencies.

R. Studies: The Watermaster may undertake relevant studies of hydrologic conditions and operating aspects of the management program for the Beaumont Basin.

S. Groundwater Storage Agreements: The. Watermaster shall adopt uniform rules and a standard form of agreement for the storage of Supplemental Water,

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provided that the activities undertaken pursuant to such agreements do not injure any Party.

T. Administration of Groundwater Storage Capacity: Except for the exercise by the Overlying Parties of their respective Overlying Water Rights described in Part III, above, in accordance with the provisions of the Physical Solution, all Groundwater Storage capacity in the Beaumont Basin shall be subject to the Watermaster's rules and regulations, which regulations shall ensure that sufficient storage capacity shall be reserved for local projects. Any Person or entity may apply to the Watermaster to store water in the Beaumont Basin.

U. Accounting for Stored Water: The Watermaster shall calculate additions, extractions and losses and maintain an annual account of all stored water in the Beaumont Basin, and any losses of water supplies or Safe Yield resulting from such stored water.

V. Accounting. for New Yield: Recharge of the Beaumont Basin with New Yield water shall be credited to the Party that creates the New Yield. The Watermaster shall make an independent scientific assessment of the estimated New Yield created by each proposed project. New Yield will be allocated on an annual basis, based upon monitoring data and review by the Watermaster.

W. Accounting for Acquisitions of Water Rights: The Watermaster shall maintain an accounting of acquisitions by Appropriators of water otherwise subject to Overlying Water Rights as the result of the provision of water service thereto by an Appropriator.

X. Annual Administrative Budget: The Watermaster shall prepare an annual administrative budget for public review, and shall hold a public hearing on each such budget prior to adoption. The budget shall be prepared in sufficient detail so as to make a proper allocation of the expenses and receipts. Expenditures within budgeted items may thereafter be made by the Watermaster as a matter of course.

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Y. Redetermining the Safe Yield: The Safe Yield of the Beaumont Basin shall be redetermined at least every 10 years beginning 10 years after the date of entry of this Judgment.

6. Reports and Accounting

(a) Production Reports: Each Pumper shall periodically file, pursuant to Watermaster rules and regulations, a report showing the total production of such Pumper from each well during the preceding report period, and such additional information as the Watermaster may reasonably require.

(b) Watermaster Report and Accounting: The Watermaster shall prepare an annual report of the preceding year's operations, which shall include an audit of all assessments and Watermaster expenditures.

7. Replenishment

Supplemental Water may be obtained by the Watermaster from any source. The Watermaster shall seek the best available quality of Supplemental Water at the most reasonable cost for recharge in the Basin. Sources may include, but are not limited to:

(a) Recycled Water;

(b) State Water Project Water;

(c) Other imported water.

Replenishment may be accomplished by any reasonable method including:

(a) Spreading and percolation, or injection of water in existing or new facilities; and/or

(b) In-lieu deliveries for direct surface use, in lieu of groundwater extraction.

VII. MISCELLANEOUS PROVISIONS

1. Designation of Address for Notice and Service

Each Party shall designate, in writing to the plaintiff, the name and address to be used for purposes of all subsequent notices and service herein, such designation to be delivered to the plaintiff within 30 days after the Judgment has been entered. The plaintiff shall, within 45 days after judgment has been entered, file the list of designees with the Court and serve the same on the Watermaster and all

Parties. Such designation may be changed from time-to-time by filing a written notice of such change with the Watermaster. Any Party desiring to be relieved of receiving notices of Watermaster activity may file a waiver of notice on a form to be provided by the Watermaster. The Watermaster shall maintain, at all times, a current list of Parties to whom notices are to be sent and their addresses for purposes of service. The Watermaster shall also maintain a full current list of names and addresses of all Parties or their successors, as filed herein. Copies of such lists shall be available to any Person. If no designation is made, a Party's designee shall be deemed to be, in order of priority: (i) the Party's attorney of record; or (ii) if the Party does not have an attorney of record, the Party itself at the address on the Watermaster list.

2. Intervention After Judgment

Any Person who is neither a Party to this Judgment nor a successor or assignee of a Party to this Judgment may seek to become a party to this Judgment by filing a petition in intervention.

3. Interference with Pumping

Nothing in this judgment shall be deemed to prevent any party from seeking judicial relief against any other party whose pumping activities constitute an unreasonable interference with the complaining party's ability to extract groundwater.

4. Successors and Assigns

This Judgment and all provisions herein shall be binding on and shall inure to the benefit of the heirs, executors, administrators, successors and assigns of the parties hereto.

5. Severability

The provisions of this Judgment are severable. If any provision of this Judgment is held by the Court to be illegal, invalid or unenforceable, that provision shall be excised from the Judgment. The remainder of the terms of the Judgment shall remain in full force and effect and shall in no way be affected, impaired or invalidated by such excision. This Judgment shall be reformed to add, in lieu of the excised provision, a provision as similar in terms to the excised provision as may be possible and be legal, valid and enforceable.

6. Review Procedures

Any action, decision, rule or procedure of the Watermaster pursuant to this Judgment shall be subject to review by the Court on its own motion or on timely motion by any Party, as follows:

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A. Effective Date of Watermaster Action: Any order, decision or action of the Watermaster pursuant to this Judgment on noticed specific agenda items shall be deemed to have occurred on the date of the order, decision or action.

B. Notice of Motion: Any Party may, by a regularly-noticed motion, petition the Court for review of the Watermaster's action or decision pursuant to this Judgment. The motion shall be deemed to be filed when a copy, conformed as filed with the Court, has been delivered to the Watermaster, together with the service fee established by the Watermaster sufficient to cover the cost to photocopy and mail the motion to each Party. The Watermaster shall prepare copies and mail a copy of the motion to each Party or its designee according to the official service list which shall be maintained by the Watermaster according to Part VII, paragraph 1, above. A Party's obligation to serve the notice of a motion upon the Parties is deemed to be satisfied by filing the motion as provided herein. Unless ordered by the Court, any petition shall not operate to stay the effect of any Watermaster action or decision which is challenged.

C. Time for Motion: A motion to review any Watermaster action or decision shall be filed within 90 days after such Watermaster action or decision, except that motions to review Watermaster assessments hereunder shall be filed within 30 days of mailing of notice of the assessment.

D. De Novo Nature of Proceeding: Upon filing of a petition to review a Watermaster action, the Watermaster shall notify the Parties of a date when the Court will take evidence and hear argument. The Court's review shall be de novo and the Watermaster decision or action shall have no evidentiary weight in such proceeding.

E. Decision: The decision of the Court in such proceedings shall be an appealable Supplemental Order in this case. When the same is final, it shall be binding upon the Watermaster and the Parties.

DATED: _____ By: _____
Judge of the Superior Court

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RESOLUTION NO. 2019-02

A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER TO AMEND SECTION 7 OF THE RULES AND REGULATIONS OF THE WATERMASTER

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

NOW, THEREFORE, BE IT RESOLVED BY THE BEAUMONT BASIN WATERMASTER AS FOLLOWS:

1. The Beaumont Basin Watermaster hereby rescinds Section 7 of the Beaumont Basin Watermaster Rules and Regulations in its entirety and replaces Section 7 of the Beaumont Basin Watermaster Rules and Regulations as provided in Attachment A. .

2. The Beaumont Basin Watermaster hereby adopts 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 of Transfer of Appropriator Production Right or Operating Yield Between Appropriators" as provided in Attachment A.

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

PASSED AND ADOPTED this 5th day of June 2019.

BEAUMONT BASIN WATERMASTER

By: _____

Art Vela, Chairman of the
Beaumont Basin Watermaster

Attachment A

SECTION 7
ADJUSTMENTS OF RIGHTS

7.0 **In General**. Overlying Parties shall have the right to exercise their respective Overlying Water Rights except to the extent provided in Section III, Paragraph 3, entitled Adjustment of Rights, of the Judgment. (Judgment, p. 8, lines 12-14).

(a) To the extent any Overlying Party requests, and uses its adjudicated water rights to obtain water service from an Appropriator Party, an equivalent volume of potable groundwater shall be earmarked by the Appropriator Party which will serve the Overlying Party, up to the volume of the Overlying Water Rights as reflected in Column 4 of Exhibit "B" of the Judgment, for the purpose of serving the Overlying Party. (Judgment, p. 8, lines 15-27).

(b) When an Overlying Party receives water service as provided for in paragraph 7(a), the Overlying Party shall forebear the use of that volume of the Overlying Water Right earmarked by the Appropriator 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. (Judgment, p. 8, line 28 – p. 9, line 7).

(c) Should the volume of the Overlying Water Right equal or exceed the volume of potable groundwater earmarked as provided in paragraph 7(a), the Appropriator Party which will serve the Overlying Party shall:

(i) Impose potable water charges and assessments upon the Overlying Party and its successors in interest at the rates charged to the then-existing regular customers of the Appropriator Party, and

(ii) Not collect from such Overlying Party any development charge that may be related to the importation of water into the Beaumont Basin.

(d) If an Appropriator Party provides recycled water to serve an overlying use served with groundwater, then the Overlying Water Right shall not be diminished by the receipt of recycled water.

7.1 **Notice of Adjustment of Rights from an Overlying Pumper to an Appropriator**. The Overlying Pumper and Appropriator shall complete a Notice of Adjustment of Rights (Form 5 - Notice to Adjust Rights of an Overlying Party due to Proposed Provision of Water Service by an Appropriator) and file it with the Watermaster.

(a) Accounting for Transfers. Watermaster shall maintain an accounting of acquisitions by Appropriators of water otherwise subject to Overlying Water Rights as the result of the provision of water service by an Appropriator. The Watermaster shall maintain an accounting of all transfers, and such accounting shall be included in the Annual Report and other relevant Watermaster reports as appropriate.

7.2 **Transfer of Water Between Appropriators**. Any Appropriator may transfer all or any portion of its Appropriator's Production Right or Operating Yield that is surplus to its needs to another Appropriator in accordance with these Rules and Regulations. The

Watermaster shall maintain an accounting of all transfers, and such accounting shall be included in the Annual Report and other relevant Watermaster reports as appropriate.

7.3 Availability of Unused Overlying Production and Allocation to the Appropriator Parties. Except as provided for in Section 7.0 herein, to the extent that groundwater pumping by an overlying party to the Judgment does not exceed five times the share of safe yield assigned to the overlying party during any five-year period (see column 4 of Exhibit B to the Judgment), the amount of groundwater not produced by such overlying party pursuant to its rights under the Judgment shall be available for allocation to the appropriator parties in accordance with their respective percentage shares of unused safe yield (see column 3 of Exhibit C to the Judgment). The availability and allocation of any such groundwater not produced by the overlying parties in accordance with their rights under the Judgment shall be first determined in fiscal year 2008/09 and every year thereafter. The table below illustrates the allocation process anticipated in the Judgment.

Available Unused Overlying Production in Fiscal	Will be Allocated to the Appropriator Parties in Fiscal
2003/04	2008/09
2004/05	2009/10
2005/06	2010/11
2006/07	2011/12
2007/08	2012/13
2008/09	2013/14
2009/10	2014/15
2010/11	2015/16
2011/12	2016/17
2012/13	2017/18

Groundwater not produced by the overlying parties in accordance with their rights under the Judgment and determined to be available for allocation to the appropriator parties pursuant hereto may be utilized by the appropriator parties in accordance with the terms of the Judgment and these Rules and Regulations. Neither this rule nor its operation shall be deemed or construed in any way to change, limit, or otherwise affect any rights awarded to and held by the overlying parties pursuant to the Judgment. Nor shall this rule or its operation result in any liability to the overlying parties or be deemed or construed as a transfer, assignment, forfeiture, or abandonment of any overlying rights under the Judgment.

Adjusted Water Rights Pursuant to Section 3 of the Judgment
(Example Tabulation for Annual Reporting Purposes)

Overlying Party to the Judgment	2004 Initial Overlying Water Right (acre feet)	2014 Updated Overlying Water Right (acre feet)	Beaumont Cherry Valley Water District		Yucaipa Valley Water District	
			Earmarked	Transferred	Earmarked	Transferred
California Oak Valley Golf and Resort	950.0	735.8	0	0	0	0
Plantation on the Lake	581.0	450.0	0	0	0	0
Sharondale Mesa Owners Association	200.0	154.9	0	0	0	0
Tukwet Canyon Golf Club	2,200.0	1704.0	0	0	0	0
Rancho Calimesa Mobile Home Park	150.0	116.2	0	0	0	0
Gutierrez, Hector, et.al.	10.0	7,7	0	0	0	0
Darmont, Boris and Miriam	2.5	1.9	0	0	0	0
Aldama, Nicolas and Amalia	7.0	5.4	0	0	0	0
McAmis, Ronald L.	5.0	3.9	0	0	0	0
Nikodinov, Nick	20.0	15.5	0	0	0	0
Beckman, Walter M.	75.0	58.1	0	0	0	0
Albor Properties III	300.0	232.4	0	0	0	0
Sterns, Leonard M., and Dorothy D.	200.0	154.9	0	0	0	0
Sunny-Cal Egg and Poultry Company	1,439.5	1,115.0	0	0	0	0
Merlin Properties	550.0	426.0	0	0	0	0
Oak Valley Partners	1,806.0	1,215.85	0	0	2.65	180.40
Roman Catholic Bishop of San Bernardino	154.0	119.3	0	0	0	0
Total	**8,650.0**[1]				**6,700.0**[2]	

1. Original Safe Yield - February 4,2004
2. Recalculated Safe Yield - Resolution No. 2015-01

Beaumont Basin Watermaster - Form 5

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

Please take notice that _____ ("Appropriator") proposes to provide retail water service to _____ ("Overlying Owner") and that _____ acre feet ("Earmarked Water") of Overlying Water Rights will be transferred to the Appropriator when the Overlying Owner receives water service.

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	**APPROPRIATOR**
Overlying Party	Appropriator Party
Authorized Agent – Print Name	Authorized Agent – Print Name
Title	Title
Signature	Signature
Date	Date
Address for Notice	Address for Notice
Telephone	Telephone
Email Address	Email Address

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

Beaumont Basin Watermaster - Form 7

NOTICE OF TRANSFER OF APPROPRIATOR PRODUCTION RIGHT OR OPERATING YIELD BETWEEN APPROPRIATORS
Calendar Year _____

Notice is hereby given that commending on January 1, _____ and terminating on December 31, _____, _____ ("Transferor") hereby transfers to _____ ("Transferee") the quantity of _____ acre-feet of corresponding Appropriator Production Right or Operating Yield adjudicated to Transferor or its predecessor in interest in the Judgment rendered in the Case of SAN TIMOTEO WATERSHED MANAGEMENT AUTHORITY vs. CITY OF BANNING, et. Al., RIC 389197, entered on February 4, 2004.

TRANSFEROR	**TRANSFEREE**
Entity Name	Entity Name
Authorized Agent – Print Name	Authorized Agent – Print Name
Title	Title
Signature	Signature
Date	Date
Address for Notice	Address for Notice
Telephone	Telephone
Email Address	Email Address

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

Appendix B
Active and Interested Party List

City of Banning
Arturo Vela
Post Office Box 998
Banning, CA 92220
avela@ci.banning.ca.us

City of Banning
Luis Cardenas
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Yucaipa Valley Water District
Joseph Zoba, General Manager
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Yucaipa, CA 92399
jzoba@yvwd.dst.ca.us

Yucaipa Valley Water District
Jennifer Ares
12770 Second Street
Yucaipa, CA 92399
Jennifer Ares (jares@yvwd.dst.ca.us)

South Mesa Mutual Water Company
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Calimesa, CA 92320
smwc@verizon.net

South Mesa Mutual Water Company
Dave Armstrong
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darmstrongsmwc@yahoo.com

Beaumont-Cherry Valley Water District
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Beaumont, CA 92223
dan.jaggers@bcvwd.org

Beaumont-Cherry Valley Water District
Mark Swanson
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mark.swanson@bcvwd.org

City of Beaumont
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Beaumont, CA 92223
kwarsinski@ci.beaumont.ca.us

Plantation on the Lake
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10961 Desert Lawn Drive
Calimesa, CA 92320
jimk@mrc1.com

Oak Valley Partners, LP.
John Ohanian
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10410 Roberts Road
Calimesa, CA 92320

Merlin Properties, LLC.
Fred and Richard Reidman
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Long Beach, CA 90803
riedman@gte.net

Sunny Cal Egg and Poultry Company
Steve Anderson, Esq.
c/o Best, Best and Krieger
3750 University Avenue, Suite 400
Riverside, CA 92501

Southern California Professional Golfers Association of America
Tom Addis
36201 Champions Drive
Beaumont, CA 92223

California Oak Valley Golf and Resort, LLC.
Ron Sullivan
27710 Jefferson Avenue, Suite 301
Temecula, CA 92590

Sharondale Mesa Owners Association
William Wood
9525 Sharon Way
Calimesa, CA 92320

Beaumont-Cherry Valley Water District
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Beaumont, CA 92223
andy.ramirez@bcvwd.org

Sharondale Mesa Owners Association
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Beaumont-Cherry Valley Water District
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Beaumont-Cherry Valley Water District
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Yucaipa Valley Water District
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Yucaipa Valley Water District
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San Gorgonio Pass Water Agency
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San Gorgonio Pass Water Agency
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San Gorgonio Pass Water Agency
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San Gorgonio Pass Water Agency
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Dfenn@sgpwa.com

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Appendix C
Fiscal Year 2018-19 Audit Letter

BEAUMONT BASIN WATERMASTER

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

JUNE 30, 2019

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

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INDEPENDENT ACCOUNTANT'S REPORT ON APPLYING AGREED-UPON PROCEDURES

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

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

Our procedures and findings are as follows:

1. Procedure

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

Finding

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

2. Procedure

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

Finding

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

3. **Procedure**

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

   Finding

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

4. **Procedure**

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

   Finding

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

5. **Procedure**

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

   Finding

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

6. **Procedure**

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

   Finding

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

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

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

Rogers, Anderson, Malody & Scott, LLP.

August 13, 2019
San Bernardino, California

Exhibit A

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

Assets	
Cash and cash equivalents	$ 147,332
Liabilities	
Accounts payable	2,430
Net position	
Unrestricted	$ 144,902

Exhibit B

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

Revenues	
Assessments	$ 157,630
Interest	99
Total revenues	157,729
Expenses	
Special projects	
Acquisition/computation and annual report	15,078
Engineering	65,313
Monitoring and data acquisition	44,567
Administrative	
Legal and professional	23,034
Bank charges	18
Total expenses	148,010
Change in net position	9,719
Unrestricted net position, beginning of year	135,183
Unrestricted net position, end of year	$ 144,902

Appendix D
Production Estimation Methods for Unmetered Overlying Producers

University of California Riverside - CIMIS Station 44
Monthly Evapotranspiration Values - 2002 through 2019

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	7.83	6.44	4.38	2.72	1.70	62.41
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	7.62	7.76	7.29	6.19	4.40	3.21	2.01	63.90
2015	2.76	3.33	5.83	6.30	5.38	7.42	6.76	7.67	5.83	3.81	2.77	1.84	59.70
2016	2.09	4.28	4.91	6.00	5.34	6.95	7.26	6.67	4.84	3.67	3.10	1.83	56.94
2017	2.41	2.08	5.01	6.13	5.95	6.98	7.11	6.40	4.92	4.54	2.35	3.09	56.97
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

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

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	5.48	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	5.43	5.10	4.33	3.08	2.25	1.41	44.73
2015	1.93	2.33	4.08	4.41	3.77	5.19	4.73	5.37	4.08	2.67	1.94	1.29	41.79
2016	1.46	3.00	3.44	4.20	3.74	4.87	5.08	4.67	3.39	2.57	2.17	1.28	39.86
2017	1.69	1.46	3.51	4.29	4.17	4.89	4.98	4.48	3.44	3.18	1.65	2.16	39.88
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

Indoor Water Use: 0.35 ac-ft/yr/du Irrigation Efficienty: 70%

Estimated Pumping - All Unmetered Accounts

Year	Total Use (ac-ft/yr)
2004	466.11
2005	443.64
2006	81.28
2007	12.23
2008	13.78
2009	13.47
2010	11.85
2011	12.67
2012	13.07
2013	12.91
2014	13.26
2015	12.71
2016	12.35
2017	12.35
2018	12.64
2019	12.46

Estimated Pumping by Merlin Properties

Year	Parcel Size (acres)	0	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	0.38	0.55	1.60
2016	48	3	1.05	0.11	0.37	0.52	1.57
2017	48	3	1.05	0.11	0.37	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

Estimated Pumping by Roman Catholic Bishop of San Bernardino

Year	Parcel Size (acres)	No. DU	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

Estimated Pumping by Leonard Stearns

Year	Parcel Size (acres)	No. DU	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

Estimated Pumping by Sunny Cal

Year	Parcel Size (acres)	No. DU	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	2.44	3.48	4.18
2016	185	2	0.70	0.00	0.00	0.70	2.33	3.32	4.02
2017	185	2	0.70	0.00	0.00	0.70	2.33	3.32	4.02
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

Water consumption per chicken estimated at 6.0 gal/100 chickens

Estimated Pumping by Albor Properties

Year	Parcel Size (acres)	No. DU	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	1.39	1.99	2.34
2016	122	1	0.35	0.40	1.33	1.90	2.25
2017	122	1	0.35	0.40	1.33	1.90	2.25
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

Estimated Pumping by Nikodinov

Year	Parcel Size (acres)	No. DU	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	0.27	0.38	0.73
2017	10	1	0.35	0.08	0.27	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

Estimated Pumping by McAmis

Year	Parcel Size (acres)	No. DU	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	0.13	0.19	0.54
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

Estimated Pumping by Aldama

Year	Parcel Size (acres)	No. DU	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	0.50	0.85
2016	1.4	1	0.35	0.10	0.33	0.47	0.82
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

Estimated Pumping by Gutierrez

Year	Parcel Size (acres)	No. DU	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	0.49	0.70	1.40
2016	2	2	0.70	0.14	0.47	0.66	1.36
2017	2	2	0.70	0.14	0.47	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

Estimated Pumping by Damont

Year	Parcel Size (acres)	No. DU	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

Appendix E

Copies of YVWD's letters notifying Watermaster in 2019 of the transfer of water rights from Oak Valley Partners

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

January 11, 2019

Mr. Dan Jaggers, Secretary
Beaumont Basin Watermaster
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Thierry Montoya
Alvarado Smith
1 MacArthur Place, Suite 200
Santa Ana, California 92707

Hannibal Blandon
ALDA Engineering
5928 Vineyard Avenue
Alta Loma, California 91701

Subject: Transfer of 2.65 Acre Feet of Overlying Water Rights in the Beaumont Basin for Parcel 6 of Parcel Map No. 33105 Pursuant to Beaumont Basin Watermaster Resolution No. 2017-02

Gentlemen:

The Yucaipa Valley Water District has accepted the transfer of Overlying Water Rights from Oak Valley Partners for Parcel Map No. 33105, Parcel 6 pursuant to Beaumont Basin Watermaster Resolution No. 2017-02 adopted on August 30, 2017.

The attached correspondence dated January 3, 2019, confirms the transfer of 2.65 acre-feet of overlying water rights from Oak Valley Partners and the acceptance of said overlying-appropriative water rights by Yucaipa Valley Water District.

Sincerely,

Joseph B. Zoba
General Manager

Copies to:

- John Ohanian, Oak Valley Partners
- Mike Turner, Argent Management

Appendix F
Water Quality Analysis Summary (2015-2019) for Production Wells

Well Name	Sample Date	Analyte	Concent.	Unit
RCMHP - 01	2/5/2016	ALKALINITY (TOTAL) AS CACO3	170	MG/L
RCMHP - 01	4/29/2019	ALKALINITY (TOTAL) AS CACO3	190	MG/L
RCMHP - 01	2/5/2016	ALUMINUM	50	UG/L
RCMHP - 01	4/29/2019	ALUMINUM	50	UG/L
RCMHP - 01	2/5/2016	ARSENIC	2	UG/L
RCMHP - 01	4/29/2019	ARSENIC	2	UG/L
RCMHP - 01	2/5/2016	BICARBONATE ALKALINITY	210	MG/L
RCMHP - 01	4/29/2019	BICARBONATE ALKALINITY	190	MG/L
RCMHP - 01	2/5/2016	CALCIUM	44	MG/L
RCMHP - 01	4/29/2019	CALCIUM	42	MG/L
RCMHP - 01	2/5/2016	CARBONATE ALKALINITY	3	MG/L
RCMHP - 01	4/29/2019	CARBONATE ALKALINITY	5	MG/L
RCMHP - 01	2/5/2016	CHLORIDE	14	MG/L
RCMHP - 01	4/29/2019	CHLORIDE	23	MG/L
RCMHP - 01	2/5/2016	CHROMIUM (TOTAL)	6	UG/L
RCMHP - 01	4/29/2019	CHROMIUM (TOTAL)	10	UG/L
RCMHP - 01	2/5/2016	CHROMIUM, HEXAVALENT	6	UG/L
RCMHP - 01	2/5/2016	COPPER	50	UG/L
RCMHP - 01	4/29/2019	COPPER	50	UG/L
RCMHP - 01	2/5/2016	FLUORIDE (F) (NATURAL-SOURCE)	0.5	MG/L
RCMHP - 01	4/29/2019	FLUORIDE (F) (NATURAL-SOURCE)	0.55	MG/L
RCMHP - 01	2/5/2016	HARDNESS (TOTAL) AS CACO3	180	MG/L
RCMHP - 01	4/29/2019	HARDNESS (TOTAL) AS CACO3	170	MG/L
RCMHP - 01	2/5/2016	HYDROXIDE ALKALINITY	3	MG/L
RCMHP - 01	4/29/2019	HYDROXIDE ALKALINITY	5	MG/L
RCMHP - 01	2/5/2016	IRON	100	UG/L
RCMHP - 01	4/29/2019	IRON	100	UG/L
RCMHP - 01	2/5/2016	LEAD	5	UG/L
RCMHP - 01	4/29/2019	LEAD	5	UG/L
RCMHP - 01	2/5/2016	MAGNESIUM	16	MG/L
RCMHP - 01	4/29/2019	MAGNESIUM	15	MG/L
RCMHP - 01	2/5/2016	MANGANESE	20	UG/L
RCMHP - 01	4/29/2019	MANGANESE	20	UG/L
RCMHP - 01	2/5/2016	MERCURY	1	<
RCMHP - 01	4/29/2019	MERCURY	1	<
RCMHP - 01	1/5/2016	NITRATE (AS N)	4.6	MG/L
RCMHP - 01	2/5/2016	NITRATE (AS N)	4.1	MG/L
RCMHP - 01	1/16/2017	NITRATE (AS N)	4.6	MG/L
RCMHP - 01	1/22/2018	NITRATE (AS N)	2.9	MG/L
RCMHP - 01	1/3/2019	NITRATE (AS N)	5.5	MG/L
RCMHP - 01	10/7/2019	NITRATE (AS N)	5.3	MG/L
RCMHP - 01	1/2/2015	NITRATE (AS NO3)	19	MG/L
RCMHP - 01	2/5/2016	NITRITE (AS N)	0.1	MG/L
RCMHP - 01	4/29/2019	NITRITE (AS N)	0.4	MG/L
RCMHP - 01	2/5/2016	SODIUM	22	MG/L
RCMHP - 01	4/29/2019	SODIUM	27	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
RCMHP - 01	2/5/2016	SPECIFIC CONDUCTANCE	440	US
RCMHP - 01	4/29/2019	SPECIFIC CONDUCTANCE	460	US
RCMHP - 01	2/5/2016	SULFATE	9	MG/L
RCMHP - 01	4/29/2019	SULFATE	12	MG/L
RCMHP - 01	2/5/2016	TETRACHLOROETHYLENE	0.5	UG/L
RCMHP - 01	2/5/2016	TOTAL DISSOLVED SOLIDS	260	MG/L
RCMHP - 01	4/29/2019	TOTAL DISSOLVED SOLIDS	260	MG/L
RCMHP - 01	2/5/2016	TRICHLOROETHYLENE	0.5	UG/L
RCMHP - 01	2/5/2016	TURBIDITY, LABORATORY	0.11	NTU
RCMHP - 01	4/29/2019	TURBIDITY, LABORATORY	0.38	NTU
RCMHP - 01	2/5/2016	ZINC	50	UG/L
RCMHP - 01	4/29/2019	ZINC	50	UG/L
RCMHP - 02	2/5/2016	ALKALINITY (TOTAL) AS CACO3	170	MG/L
RCMHP - 02	4/29/2019	ALKALINITY (TOTAL) AS CACO3	190	MG/L
RCMHP - 02	2/5/2016	ALUMINUM	50	UG/L
RCMHP - 02	4/29/2019	ALUMINUM	50	UG/L
RCMHP - 02	2/5/2016	ARSENIC	2	UG/L
RCMHP - 02	4/29/2019	ARSENIC	2	UG/L
RCMHP - 02	2/5/2016	BICARBONATE ALKALINITY	210	MG/L
RCMHP - 02	4/29/2019	BICARBONATE ALKALINITY	190	MG/L
RCMHP - 02	2/5/2016	CALCIUM	40	MG/L
RCMHP - 02	4/29/2019	CALCIUM	43	MG/L
RCMHP - 02	2/5/2016	CARBONATE ALKALINITY	3	MG/L
RCMHP - 02	4/29/2019	CARBONATE ALKALINITY	5	MG/L
RCMHP - 02	2/5/2016	CHLORIDE	20	MG/L
RCMHP - 02	4/29/2019	CHLORIDE	25	MG/L
RCMHP - 02	2/5/2016	CHROMIUM (TOTAL)	13	UG/L
RCMHP - 02	4/29/2019	CHROMIUM (TOTAL)	10	UG/L
RCMHP - 02	2/5/2016	CHROMIUM, HEXAVALENT	12	UG/L
RCMHP - 02	8/29/2016	CHROMIUM, HEXAVALENT	7	UG/L
RCMHP - 02	12/2/2016	CHROMIUM, HEXAVALENT	8.3	UG/L
RCMHP - 02	1/16/2017	CHROMIUM, HEXAVALENT	10	UG/L
RCMHP - 02	7/10/2017	CHROMIUM, HEXAVALENT	11	UG/L
RCMHP - 02	10/16/2017	CHROMIUM, HEXAVALENT	11	UG/L
RCMHP - 02	1/22/2018	CHROMIUM, HEXAVALENT	9.1	UG/L
RCMHP - 02	4/18/2018	CHROMIUM, HEXAVALENT	9.5	UG/L
RCMHP - 02	7/5/2018	CHROMIUM, HEXAVALENT	10	UG/L
RCMHP - 02	10/1/2018	CHROMIUM, HEXAVALENT	8.7	UG/L
RCMHP - 02	1/4/2019	CHROMIUM, HEXAVALENT	12	UG/L
RCMHP - 02	2/5/2016	COPPER	50	UG/L
RCMHP - 02	4/29/2019	COPPER	50	UG/L
RCMHP - 02	2/5/2016	FLUORIDE (F) (NATURAL-SOURCE)	0.7	MG/L
RCMHP - 02	4/29/2019	FLUORIDE (F) (NATURAL-SOURCE)	0.63	MG/L
RCMHP - 02	2/5/2016	HARDNESS (TOTAL) AS CACO3	170	MG/L
RCMHP - 02	4/29/2019	HARDNESS (TOTAL) AS CACO3	170	MG/L
RCMHP - 02	2/5/2016	HYDROXIDE ALKALINITY	3	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
RCMHP - 02	4/29/2019	HYDROXIDE ALKALINITY	5	MG/L
RCMHP - 02	2/5/2016	IRON	100	UG/L
RCMHP - 02	4/29/2019	IRON	100	UG/L
RCMHP - 02	2/5/2016	LEAD	5	UG/L
RCMHP - 02	4/29/2019	LEAD	5	UG/L
RCMHP - 02	2/5/2016	MAGNESIUM	16	MG/L
RCMHP - 02	4/29/2019	MAGNESIUM	15	MG/L
RCMHP - 02	2/5/2016	MANGANESE	20	UG/L
RCMHP - 02	4/29/2019	MANGANESE	20	UG/L
RCMHP - 02	2/5/2016	MERCURY	1	<
RCMHP - 02	4/29/2019	MERCURY	1	<
RCMHP - 02	1/5/2016	NITRATE (AS N)	4.9	MG/L
RCMHP - 02	2/5/2016	NITRATE (AS N)	4.9	MG/L
RCMHP - 02	7/1/2016	NITRATE (AS N)	5.5	MG/L
RCMHP - 02	12/2/2016	NITRATE (AS N)	6.2	MG/L
RCMHP - 02	1/16/2017	NITRATE (AS N)	6.1	MG/L
RCMHP - 02	7/10/2017	NITRATE (AS N)	6.6	MG/L
RCMHP - 02	10/16/2017	NITRATE (AS N)	4.8	MG/L
RCMHP - 02	1/22/2018	NITRATE (AS N)	4.6	MG/L
RCMHP - 02	4/18/2018	NITRATE (AS N)	4.7	MG/L
RCMHP - 02	7/5/2018	NITRATE (AS N)	5.9	MG/L
RCMHP - 02	10/1/2018	NITRATE (AS N)	6.2	MG/L
RCMHP - 02	1/4/2019	NITRATE (AS N)	5.1	MG/L
RCMHP - 02	7/1/2019	NITRATE (AS N)	3.1	MG/L
RCMHP - 02	11/25/2019	NITRATE (AS N)	5.7	MG/L
RCMHP - 02	1/2/2015	NITRATE (AS NO3)	25	MG/L
RCMHP - 02	4/3/2015	NITRATE (AS NO3)	26	MG/L
RCMHP - 02	7/9/2015	NITRATE (AS NO3)	23	MG/L
RCMHP - 02	10/16/2015	NITRATE (AS NO3)	27	MG/L
RCMHP - 02	2/5/2016	NITRITE (AS N)	0.1	MG/L
RCMHP - 02	7/1/2016	NITRITE (AS N)	0.1	MG/L
RCMHP - 02	4/29/2019	NITRITE (AS N)	0.4	MG/L
RCMHP - 02	2/5/2016	SODIUM	32	MG/L
RCMHP - 02	4/29/2019	SODIUM	31	MG/L
RCMHP - 02	2/5/2016	SPECIFIC CONDUCTANCE	470	US
RCMHP - 02	4/29/2019	SPECIFIC CONDUCTANCE	460	US
RCMHP - 02	2/5/2016	SULFATE	10	MG/L
RCMHP - 02	4/29/2019	SULFATE	12	MG/L
RCMHP - 02	2/5/2016	TETRACHLOROETHYLENE	0.5	UG/L
RCMHP - 02	2/5/2016	TOTAL DISSOLVED SOLIDS	270	MG/L
RCMHP - 02	4/29/2019	TOTAL DISSOLVED SOLIDS	270	MG/L
RCMHP - 02	2/5/2016	TRICHLOROETHYLENE	0.5	UG/L
RCMHP - 02	2/5/2016	TURBIDITY, LABORATORY	0.33	NTU
RCMHP - 02	4/29/2019	TURBIDITY, LABORATORY	0.7	NTU
RCMHP - 02	2/5/2016	ZINC	50	UG/L
RCMHP - 02	4/29/2019	ZINC	50	UG/L

Well Name	Sample Date	Analyte	Concent.	Unit
SMHOA - 01	7/9/2015	ALKALINITY (TOTAL) AS CACO3	200	MG/L
SMHOA - 01	8/10/2018	ALKALINITY (TOTAL) AS CACO3	230	MG/L
SMHOA - 01	7/9/2015	ALUMINUM	50	UG/L
SMHOA - 01	8/10/2018	ALUMINUM	50	UG/L
SMHOA - 01	7/9/2015	ARSENIC	2	UG/L
SMHOA - 01	8/10/2018	ARSENIC	2	UG/L
SMHOA - 01	7/9/2015	BICARBONATE ALKALINITY	240	MG/L
SMHOA - 01	8/10/2018	BICARBONATE ALKALINITY	230	MG/L
SMHOA - 01	7/9/2015	CALCIUM	43	MG/L
SMHOA - 01	8/10/2018	CALCIUM	48	MG/L
SMHOA - 01	7/9/2015	CARBONATE ALKALINITY	3	MG/L
SMHOA - 01	8/10/2018	CARBONATE ALKALINITY	7.5	MG/L
SMHOA - 01	7/9/2015	CHLORIDE	20	MG/L
SMHOA - 01	8/10/2018	CHLORIDE	27	MG/L
SMHOA - 01	7/9/2015	CHROMIUM (TOTAL)	6.2	UG/L
SMHOA - 01	8/10/2018	CHROMIUM (TOTAL)	6.3	UG/L
SMHOA - 01	7/9/2015	COPPER	50	UG/L
SMHOA - 01	8/10/2018	COPPER	50	UG/L
SMHOA - 01	7/9/2015	FLUORIDE (F) (NATURAL-SOURCE)	0.5	MG/L
SMHOA - 01	8/10/2018	FLUORIDE (F) (NATURAL-SOURCE)	0.5	MG/L
SMHOA - 01	7/9/2015	HARDNESS (TOTAL) AS CACO3	170	MG/L
SMHOA - 01	8/10/2018	HARDNESS (TOTAL) AS CACO3	190	MG/L
SMHOA - 01	7/9/2015	HYDROXIDE ALKALINITY	3	MG/L
SMHOA - 01	8/10/2018	HYDROXIDE ALKALINITY	5	MG/L
SMHOA - 01	7/9/2015	IRON	100	UG/L
SMHOA - 01	8/10/2018	IRON	100	UG/L
SMHOA - 01	7/9/2015	LEAD	5	UG/L
SMHOA - 01	8/10/2018	LEAD	5	UG/L
SMHOA - 01	7/9/2015	MAGNESIUM	16	MG/L
SMHOA - 01	8/10/2018	MAGNESIUM	17	MG/L
SMHOA - 01	7/9/2015	MANGANESE	20	UG/L
SMHOA - 01	8/10/2018	MANGANESE	20	UG/L
SMHOA - 01	7/9/2015	MERCURY	1	<
SMHOA - 01	8/10/2018	MERCURY	1	<
SMHOA - 01	1/5/2016	NITRATE (AS N)	4.3	MG/L
SMHOA - 01	7/1/2016	NITRATE (AS N)	4.3	MG/L
SMHOA - 01	10/3/2016	NITRATE (AS N)	4.3	MG/L
SMHOA - 01	12/2/2016	NITRATE (AS N)	4.9	MG/L
SMHOA - 01	1/7/2017	NITRATE (AS N)	5.2	MG/L
SMHOA - 01	4/7/2017	NITRATE (AS N)	2.5	MG/L
SMHOA - 01	7/10/2017	NITRATE (AS N)	4.6	MG/L
SMHOA - 01	9/13/2017	NITRATE (AS N)	4.8	MG/L
SMHOA - 01	10/16/2017	NITRATE (AS N)	4.4	MG/L
SMHOA - 01	1/22/2018	NITRATE (AS N)	5.6	MG/L
SMHOA - 01	4/18/2018	NITRATE (AS N)	5	MG/L
SMHOA - 01	7/5/2018	NITRATE (AS N)	4.2	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
SMHOA - 01	8/10/2018	NITRATE (AS N)	4.8	MG/L
SMHOA - 01	10/1/2018	NITRATE (AS N)	4.3	MG/L
SMHOA - 01	1/2/2019	NITRATE (AS N)	5	MG/L
SMHOA - 01	4/29/2019	NITRATE (AS N)	5.1	MG/L
SMHOA - 01	10/7/2019	NITRATE (AS N)	4.6	MG/L
SMHOA - 01	1/2/2015	NITRATE (AS NO3)	27	MG/L
SMHOA - 01	5/6/2015	NITRATE (AS NO3)	18	MG/L
SMHOA - 01	7/9/2015	NITRATE (AS NO3)	19	MG/L
SMHOA - 01	10/16/2015	NITRATE (AS NO3)	22	MG/L
SMHOA - 01	7/9/2015	NITRITE (AS N)	100	MG/L
SMHOA - 01	4/18/2018	NITRITE (AS N)	0.1	MG/L
SMHOA - 01	8/10/2018	NITRITE (AS N)	0.1	MG/L
SMHOA - 01	4/29/2019	NITRITE (AS N)	0.4	MG/L
SMHOA - 01	7/9/2015	SODIUM	43	MG/L
SMHOA - 01	8/10/2018	SODIUM	44	MG/L
SMHOA - 01	7/9/2015	SPECIFIC CONDUCTANCE	500	US
SMHOA - 01	8/10/2018	SPECIFIC CONDUCTANCE	550	US
SMHOA - 01	7/9/2015	SULFATE	16	MG/L
SMHOA - 01	8/10/2018	SULFATE	20	MG/L
SMHOA - 01	4/29/2019	TETRACHLOROETHYLENE	0.5	UG/L
SMHOA - 01	7/9/2015	TOTAL DISSOLVED SOLIDS	260	MG/L
SMHOA - 01	8/10/2018	TOTAL DISSOLVED SOLIDS	320	MG/L
SMHOA - 01	4/29/2019	TRICHLOROETHYLENE	0.5	UG/L
SMHOA - 01	7/9/2015	TURBIDITY, LABORATORY	0.53	NTU
SMHOA - 01	8/10/2018	TURBIDITY, LABORATORY	0.18	NTU
SMHOA - 01	7/9/2015	ZINC	50	UG/L
SMHOA - 01	8/10/2018	ZINC	50	UG/L
SMHOA - 02	7/9/2015	ALKALINITY (TOTAL) AS CACO3	200	MG/L
SMHOA - 02	8/10/2018	ALKALINITY (TOTAL) AS CACO3	220	MG/L
SMHOA - 02	7/9/2015	ALUMINUM	50	UG/L
SMHOA - 02	8/10/2018	ALUMINUM	50	UG/L
SMHOA - 02	7/9/2015	ARSENIC	2	UG/L
SMHOA - 02	8/10/2018	ARSENIC	2	UG/L
SMHOA - 02	7/9/2015	BICARBONATE ALKALINITY	240	MG/L
SMHOA - 02	8/10/2018	BICARBONATE ALKALINITY	220	MG/L
SMHOA - 02	7/9/2015	CALCIUM	46	MG/L
SMHOA - 02	8/10/2018	CALCIUM	52	MG/L
SMHOA - 02	7/9/2015	CARBONATE ALKALINITY	3	MG/L
SMHOA - 02	8/10/2018	CARBONATE ALKALINITY	5	MG/L
SMHOA - 02	7/9/2015	CHLORIDE	28	MG/L
SMHOA - 02	8/10/2018	CHLORIDE	32	MG/L
SMHOA - 02	7/9/2015	CHROMIUM (TOTAL)	8.9	UG/L
SMHOA - 02	8/10/2018	CHROMIUM (TOTAL)	8.9	UG/L
SMHOA - 02	7/9/2015	COPPER	50	UG/L
SMHOA - 02	8/10/2018	COPPER	50	UG/L
SMHOA - 02	7/9/2015	FLUORIDE (F) (NATURAL-SOURCE)	0.7	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
SMHOA - 02	8/10/2018	FLUORIDE (F) (NATURAL-SOURCE)	0.59	MG/L
SMHOA - 02	7/9/2015	HARDNESS (TOTAL) AS CACO3	190	MG/L
SMHOA - 02	8/10/2018	HARDNESS (TOTAL) AS CACO3	200	MG/L
SMHOA - 02	7/9/2015	HYDROXIDE ALKALINITY	3	MG/L
SMHOA - 02	8/10/2018	HYDROXIDE ALKALINITY	5	MG/L
SMHOA - 02	7/9/2015	IRON	100	UG/L
SMHOA - 02	8/10/2018	IRON	100	UG/L
SMHOA - 02	7/9/2015	LEAD	5	UG/L
SMHOA - 02	8/10/2018	LEAD	5	UG/L
SMHOA - 02	7/9/2015	MAGNESIUM	18	MG/L
SMHOA - 02	8/10/2018	MAGNESIUM	18	MG/L
SMHOA - 02	7/9/2015	MANGANESE	20	UG/L
SMHOA - 02	8/10/2018	MANGANESE	20	UG/L
SMHOA - 02	7/9/2015	MERCURY	1	<
SMHOA - 02	8/10/2018	MERCURY	1	<
SMHOA - 02	1/5/2016	NITRATE (AS N)	4.9	MG/L
SMHOA - 02	1/7/2017	NITRATE (AS N)	5.1	MG/L
SMHOA - 02	9/13/2017	NITRATE (AS N)	4.9	MG/L
SMHOA - 02	10/16/2017	NITRATE (AS N)	4.7	MG/L
SMHOA - 02	1/22/2018	NITRATE (AS N)	4.6	MG/L
SMHOA - 02	4/18/2018	NITRATE (AS N)	5.2	MG/L
SMHOA - 02	7/5/2018	NITRATE (AS N)	5.4	MG/L
SMHOA - 02	8/10/2018	NITRATE (AS N)	4.6	MG/L
SMHOA - 02	10/1/2018	NITRATE (AS N)	5	MG/L
SMHOA - 02	1/2/2019	NITRATE (AS N)	4.6	MG/L
SMHOA - 02	4/29/2019	NITRATE (AS N)	5.9	MG/L
SMHOA - 02	10/7/2019	NITRATE (AS N)	5.1	MG/L
SMHOA - 02	1/2/2015	NITRATE (AS NO3)	19	MG/L
SMHOA - 02	7/9/2015	NITRATE (AS NO3)	21	MG/L
SMHOA - 02	7/9/2015	NITRITE (AS N)	100	MG/L
SMHOA - 02	4/18/2018	NITRITE (AS N)	0.1	MG/L
SMHOA - 02	8/10/2018	NITRITE (AS N)	0.1	MG/L
SMHOA - 02	4/29/2019	NITRITE (AS N)	0.4	MG/L
SMHOA - 02	7/9/2015	SODIUM	39	MG/L
SMHOA - 02	8/10/2018	SODIUM	45	MG/L
SMHOA - 02	7/9/2015	SPECIFIC CONDUCTANCE	510	US
SMHOA - 02	8/10/2018	SPECIFIC CONDUCTANCE	530	US
SMHOA - 02	7/9/2015	SULFATE	14	MG/L
SMHOA - 02	8/10/2018	SULFATE	16	MG/L
SMHOA - 02	4/29/2019	TETRACHLOROETHYLENE	0.5	UG/L
SMHOA - 02	7/9/2015	TOTAL DISSOLVED SOLIDS	260	MG/L
SMHOA - 02	8/10/2018	TOTAL DISSOLVED SOLIDS	320	MG/L
SMHOA - 02	4/29/2019	TRICHLOROETHYLENE	0.5	UG/L
SMHOA - 02	7/9/2015	TURBIDITY, LABORATORY	0.22	NTU
SMHOA - 02	8/10/2018	TURBIDITY, LABORATORY	0.1	NTU
SMHOA - 02	7/9/2015	ZINC	50	UG/L

Well Name	Sample Date	Analyte	Concent.	Unit
SMHOA - 02	8/10/2018	ZINC	50	UG/L
Plantation - 01	3/20/2017	ALKALINITY (TOTAL) AS CACO3	200	MG/L
Plantation - 01	3/20/2017	ALUMINUM	50	UG/L
Plantation - 01	3/20/2017	ARSENIC	2	UG/L
Plantation - 01	3/20/2017	BICARBONATE ALKALINITY	240	MG/L
Plantation - 01	3/20/2017	CALCIUM	50	MG/L
Plantation - 01	3/20/2017	CARBONATE ALKALINITY	3	MG/L
Plantation - 01	3/20/2017	CHLORIDE	14	MG/L
Plantation - 01	3/20/2017	CHROMIUM (TOTAL)	5.4	UG/L
Plantation - 01	3/20/2017	COPPER	50	UG/L
Plantation - 01	3/20/2017	FLUORIDE (F) (NATURAL-SOURCE)	0.5	MG/L
Plantation - 01	3/20/2017	HARDNESS (TOTAL) AS CACO3	200	MG/L
Plantation - 01	3/20/2017	HYDROXIDE ALKALINITY	3	MG/L
Plantation - 01	3/20/2017	IRON	100	UG/L
Plantation - 01	3/20/2017	LEAD	5	UG/L
Plantation - 01	3/20/2017	MAGNESIUM	17	MG/L
Plantation - 01	3/20/2017	MANGANESE	20	UG/L
Plantation - 01	3/20/2017	MERCURY	1	<
Plantation - 01	2/23/2016	NITRATE (AS N)	1.8	MG/L
Plantation - 01	10/21/2016	NITRATE (AS N)	1.8	MG/L
Plantation - 01	3/20/2017	NITRATE (AS N)	1.8	MG/L
Plantation - 01	7/23/2018	NITRATE (AS N)	2	MG/L
Plantation - 01	3/20/2017	NITRITE (AS N)	0.1	MG/L
Plantation - 01	3/20/2017	SODIUM	20	MG/L
Plantation - 01	3/20/2017	SPECIFIC CONDUCTANCE	450	US
Plantation - 01	3/20/2017	SULFATE	10	MG/L
Plantation - 01	2/23/2016	TETRACHLOROETHYLENE	0.5	UG/L
Plantation - 01	3/20/2017	TOTAL DISSOLVED SOLIDS	270	MG/L
Plantation - 01	2/23/2016	TRICHLOROETHYLENE	0.5	UG/L
Plantation - 01	3/20/2017	TURBIDITY, LABORATORY	0.1	NTU
Plantation - 01	3/20/2017	ZINC	50	UG/L
BCVWD - 03	8/18/2016	ALKALINITY (TOTAL) AS CACO3	150	MG/L
BCVWD - 03	8/18/2016	ALUMINUM	50	UG/L
BCVWD - 03	8/18/2016	ARSENIC	2	UG/L
BCVWD - 03	8/18/2016	BICARBONATE ALKALINITY	190	MG/L
BCVWD - 03	8/18/2016	CALCIUM	37	MG/L
BCVWD - 03	8/18/2016	CARBONATE ALKALINITY	3	MG/L
BCVWD - 03	8/18/2016	CHLORIDE	13	MG/L
BCVWD - 03	8/18/2016	CHROMIUM (TOTAL)	8.4	UG/L
BCVWD - 03	3/31/2015	CHROMIUM, HEXAVALENT	9.5	UG/L
BCVWD - 03	8/18/2016	CHROMIUM, HEXAVALENT	7.3	UG/L
BCVWD - 03	8/18/2016	COPPER	50	UG/L
BCVWD - 03	8/18/2016	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
BCVWD - 03	8/18/2016	FLUORIDE (F) (NATURAL-SOURCE)	0.5	MG/L
BCVWD - 03	8/18/2016	HYDROXIDE ALKALINITY	3	MG/L
BCVWD - 03	8/18/2016	IRON	450	UG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 03	8/18/2016	LEAD	5	UG/L
BCVWD - 03	8/18/2016	MAGNESIUM	13	MG/L
BCVWD - 03	8/18/2016	MANGANESE	20	UG/L
BCVWD - 03	8/18/2016	MERCURY	1	<
BCVWD - 03	8/18/2016	NITRATE (AS N)	1.7	MG/L
BCVWD - 03	12/20/2018	NITRATE (AS N)	0.42	MG/L
BCVWD - 03	8/18/2016	NITRITE (AS N)	0.1	MG/L
BCVWD - 03	8/18/2016	POTASSIUM	1.5	MG/L
BCVWD - 03	8/18/2016	SODIUM	24	MG/L
BCVWD - 03	8/18/2016	SPECIFIC CONDUCTANCE	380	US
BCVWD - 03	8/18/2016	SULFATE	11	MG/L
BCVWD - 03	8/18/2016	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 03	8/18/2016	TOTAL DISSOLVED SOLIDS	240	MG/L
BCVWD - 03	8/18/2016	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 03	8/18/2016	TURBIDITY, LABORATORY	1.7	NTU
BCVWD - 03	8/18/2016	ZINC	50	UG/L
BCVWD - 16	12/8/2016	ALKALINITY (TOTAL) AS CACO3	180	MG/L
BCVWD - 16	12/4/2019	ALKALINITY (TOTAL) AS CACO3	180	MG/L
BCVWD - 16	12/8/2016	ALUMINUM	50	UG/L
BCVWD - 16	12/4/2019	ALUMINUM	50	UG/L
BCVWD - 16	12/8/2016	ARSENIC	2	UG/L
BCVWD - 16	12/18/2018	ARSENIC	2	UG/L
BCVWD - 16	12/4/2019	ARSENIC	2	UG/L
BCVWD - 16	12/8/2016	BICARBONATE ALKALINITY	220	MG/L
BCVWD - 16	12/4/2019	BICARBONATE ALKALINITY	180	MG/L
BCVWD - 16	12/8/2016	CALCIUM	53	MG/L
BCVWD - 16	12/4/2019	CALCIUM	54	MG/L
BCVWD - 16	12/8/2016	CARBONATE ALKALINITY	3	MG/L
BCVWD - 16	12/4/2019	CARBONATE ALKALINITY	5	MG/L
BCVWD - 16	12/8/2016	CHLORIDE	20	MG/L
BCVWD - 16	12/4/2019	CHLORIDE	46	MG/L
BCVWD - 16	12/8/2016	CHROMIUM (TOTAL)	4.1	UG/L
BCVWD - 16	12/4/2019	CHROMIUM (TOTAL)	10	UG/L
BCVWD - 16	11/4/2015	CHROMIUM, HEXAVALENT	4.6	UG/L
BCVWD - 16	12/8/2016	COPPER	50	UG/L
BCVWD - 16	12/4/2019	COPPER	50	UG/L
BCVWD - 16	12/4/2019	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
BCVWD - 16	12/8/2016	FLUORIDE (F) (NATURAL-SOURCE)	0.8	MG/L
BCVWD - 16	12/4/2019	FLUORIDE (F) (NATURAL-SOURCE)	0.64	MG/L
BCVWD - 16	12/8/2016	HARDNESS (TOTAL) AS CACO3	210	MG/L
BCVWD - 16	12/4/2019	HARDNESS (TOTAL) AS CACO3	220	MG/L
BCVWD - 16	12/8/2016	HYDROXIDE ALKALINITY	3	MG/L
BCVWD - 16	12/4/2019	HYDROXIDE ALKALINITY	5	MG/L
BCVWD - 16	12/8/2016	IRON	100	UG/L
BCVWD - 16	12/4/2019	IRON	100	UG/L
BCVWD - 16	12/8/2016	LEAD	5	UG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 16	12/4/2019	LEAD	5	UG/L
BCVWD - 16	12/8/2016	MAGNESIUM	18	MG/L
BCVWD - 16	12/4/2019	MAGNESIUM	20	MG/L
BCVWD - 16	12/8/2016	MANGANESE	20	UG/L
BCVWD - 16	12/4/2019	MANGANESE	20	UG/L
BCVWD - 16	12/8/2016	MERCURY	1	<
BCVWD - 16	12/4/2019	MERCURY	1	<
BCVWD - 16	12/14/2015	NITRATE (AS N)	5.7	MG/L
BCVWD - 16	1/11/2016	NITRATE (AS N)	5.9	MG/L
BCVWD - 16	2/9/2016	NITRATE (AS N)	5.8	MG/L
BCVWD - 16	4/12/2016	NITRATE (AS N)	6.2	MG/L
BCVWD - 16	5/25/2016	NITRATE (AS N)	5.9	MG/L
BCVWD - 16	6/14/2016	NITRATE (AS N)	5.8	MG/L
BCVWD - 16	9/20/2016	NITRATE (AS N)	5.3	MG/L
BCVWD - 16	12/8/2016	NITRATE (AS N)	6.1	MG/L
BCVWD - 16	1/31/2017	NITRATE (AS N)	6.9	MG/L
BCVWD - 16	5/23/2017	NITRATE (AS N)	6.6	MG/L
BCVWD - 16	6/19/2017	NITRATE (AS N)	6.2	MG/L
BCVWD - 16	7/18/2017	NITRATE (AS N)	6.1	MG/L
BCVWD - 16	8/14/2017	NITRATE (AS N)	6.2	MG/L
BCVWD - 16	9/11/2017	NITRATE (AS N)	6.1	MG/L
BCVWD - 16	10/23/2017	NITRATE (AS N)	5.8	MG/L
BCVWD - 16	11/22/2017	NITRATE (AS N)	5.7	MG/L
BCVWD - 16	12/11/2017	NITRATE (AS N)	5.6	MG/L
BCVWD - 16	1/8/2018	NITRATE (AS N)	5.8	MG/L
BCVWD - 16	12/18/2018	NITRATE (AS N)	6	MG/L
BCVWD - 16	10/1/2019	NITRATE (AS N)	6.9	MG/L
BCVWD - 16	12/4/2019	NITRATE (AS N)	5.1	MG/L
BCVWD - 16	1/21/2015	NITRATE (AS NO3)	33	MG/L
BCVWD - 16	2/18/2015	NITRATE (AS NO3)	26	MG/L
BCVWD - 16	3/17/2015	NITRATE (AS NO3)	27	MG/L
BCVWD - 16	4/21/2015	NITRATE (AS NO3)	26	MG/L
BCVWD - 16	5/12/2015	NITRATE (AS NO3)	26	MG/L
BCVWD - 16	6/8/2015	NITRATE (AS NO3)	25	MG/L
BCVWD - 16	7/29/2015	NITRATE (AS NO3)	27	MG/L
BCVWD - 16	8/31/2015	NITRATE (AS NO3)	25	MG/L
BCVWD - 16	9/29/2015	NITRATE (AS NO3)	28	MG/L
BCVWD - 16	10/26/2015	NITRATE (AS NO3)	27	MG/L
BCVWD - 16	11/3/2015	NITRATE (AS NO3)	27	MG/L
BCVWD - 16	12/2/2015	NITRATE (AS NO3)	26	MG/L
BCVWD - 16	12/8/2016	NITRITE (AS N)	0.1	MG/L
BCVWD - 16	12/4/2019	NITRITE (AS N)	0.4	MG/L
BCVWD - 16	12/8/2016	POTASSIUM	1.2	MG/L
BCVWD - 16	12/4/2019	POTASSIUM	1.3	MG/L
BCVWD - 16	12/8/2016	SODIUM	38	MG/L
BCVWD - 16	12/4/2019	SODIUM	35	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 16	11/22/2017	SPECIFIC CONDUCTANCE	550	US
BCVWD - 16	12/4/2019	SPECIFIC CONDUCTANCE	590	US
BCVWD - 16	12/8/2016	SULFATE	46	MG/L
BCVWD - 16	12/4/2019	SULFATE	45	MG/L
BCVWD - 16	12/8/2016	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 16	12/4/2019	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 16	12/8/2016	TOTAL DISSOLVED SOLIDS	330	MG/L
BCVWD - 16	12/4/2019	TOTAL DISSOLVED SOLIDS	350	MG/L
BCVWD - 16	12/8/2016	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 16	12/4/2019	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 16	12/8/2016	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 16	12/4/2019	TURBIDITY, LABORATORY	0.18	NTU
BCVWD - 16	12/8/2016	ZINC	50	UG/L
BCVWD - 16	12/4/2019	ZINC	50	UG/L
BCVWD - 21	12/2/2015	ALKALINITY (TOTAL) AS CACO3	180	MG/L
BCVWD - 21	12/18/2018	ALKALINITY (TOTAL) AS CACO3	180	MG/L
BCVWD - 21	12/2/2015	ALUMINUM	50	UG/L
BCVWD - 21	12/18/2018	ALUMINUM	50	UG/L
BCVWD - 21	12/2/2015	ARSENIC	2	UG/L
BCVWD - 21	12/18/2018	ARSENIC	2	UG/L
BCVWD - 21	12/2/2015	BICARBONATE ALKALINITY	220	MG/L
BCVWD - 21	12/18/2018	BICARBONATE ALKALINITY	180	MG/L
BCVWD - 21	12/2/2015	CALCIUM	49	MG/L
BCVWD - 21	12/18/2018	CALCIUM	48	MG/L
BCVWD - 21	12/2/2015	CARBONATE ALKALINITY	3	MG/L
BCVWD - 21	12/18/2018	CARBONATE ALKALINITY	5	MG/L
BCVWD - 21	12/2/2015	CHLORIDE	14	MG/L
BCVWD - 21	12/18/2018	CHLORIDE	24	MG/L
BCVWD - 21	12/2/2015	CHROMIUM (TOTAL)	6.4	UG/L
BCVWD - 21	12/18/2018	CHROMIUM (TOTAL)	10	UG/L
BCVWD - 21	11/9/2015	CHROMIUM, HEXAVALENT	6.7	UG/L
BCVWD - 21	12/2/2015	COPPER	50	UG/L
BCVWD - 21	12/18/2018	COPPER	50	UG/L
BCVWD - 21	12/4/2019	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
BCVWD - 21	12/2/2015	FLUORIDE (F) (NATURAL-SOURCE)	0.5	MG/L
BCVWD - 21	12/18/2018	FLUORIDE (F) (NATURAL-SOURCE)	0.45	MG/L
BCVWD - 21	12/2/2015	HARDNESS (TOTAL) AS CACO3	200	MG/L
BCVWD - 21	12/18/2018	HARDNESS (TOTAL) AS CACO3	190	MG/L
BCVWD - 21	12/2/2015	HYDROXIDE ALKALINITY	3	MG/L
BCVWD - 21	12/18/2018	HYDROXIDE ALKALINITY	5	MG/L
BCVWD - 21	12/2/2015	IRON	100	UG/L
BCVWD - 21	12/18/2018	IRON	100	UG/L
BCVWD - 21	12/2/2015	LEAD	5	UG/L
BCVWD - 21	12/18/2018	LEAD	5	UG/L
BCVWD - 21	12/2/2015	MAGNESIUM	18	MG/L
BCVWD - 21	12/18/2018	MAGNESIUM	17	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 21	12/2/2015	MANGANESE	20	UG/L
BCVWD - 21	12/18/2018	MANGANESE	20	UG/L
BCVWD - 21	12/2/2015	MERCURY	1	<
BCVWD - 21	12/18/2018	MERCURY	1	<
BCVWD - 21	12/14/2015	NITRATE (AS N)	3.3	MG/L
BCVWD - 21	1/11/2016	NITRATE (AS N)	3.2	MG/L
BCVWD - 21	4/12/2016	NITRATE (AS N)	3.4	MG/L
BCVWD - 21	5/25/2016	NITRATE (AS N)	3.2	MG/L
BCVWD - 21	6/14/2016	NITRATE (AS N)	3.1	MG/L
BCVWD - 21	9/20/2016	NITRATE (AS N)	2.8	MG/L
BCVWD - 21	12/1/2016	NITRATE (AS N)	3.4	MG/L
BCVWD - 21	1/31/2017	NITRATE (AS N)	3.6	MG/L
BCVWD - 21	5/23/2017	NITRATE (AS N)	3.4	MG/L
BCVWD - 21	6/19/2017	NITRATE (AS N)	3.4	MG/L
BCVWD - 21	7/18/2017	NITRATE (AS N)	3.4	MG/L
BCVWD - 21	8/14/2017	NITRATE (AS N)	3.2	MG/L
BCVWD - 21	9/11/2017	NITRATE (AS N)	3.2	MG/L
BCVWD - 21	10/23/2017	NITRATE (AS N)	3.1	MG/L
BCVWD - 21	11/22/2017	NITRATE (AS N)	3.2	MG/L
BCVWD - 21	12/11/2017	NITRATE (AS N)	3.2	MG/L
BCVWD - 21	1/8/2018	NITRATE (AS N)	3.4	MG/L
BCVWD - 21	2/27/2018	NITRATE (AS N)	3.2	MG/L
BCVWD - 21	12/18/2018	NITRATE (AS N)	3	MG/L
BCVWD - 21	10/1/2019	NITRATE (AS N)	3	MG/L
BCVWD - 21	12/4/2019	NITRATE (AS N)	2.9	MG/L
BCVWD - 21	1/21/2015	NITRATE (AS NO3)	16	MG/L
BCVWD - 21	2/18/2015	NITRATE (AS NO3)	15	MG/L
BCVWD - 21	3/17/2015	NITRATE (AS NO3)	16	MG/L
BCVWD - 21	4/21/2015	NITRATE (AS NO3)	15	MG/L
BCVWD - 21	5/12/2015	NITRATE (AS NO3)	15	MG/L
BCVWD - 21	6/8/2015	NITRATE (AS NO3)	14	MG/L
BCVWD - 21	7/29/2015	NITRATE (AS NO3)	15	MG/L
BCVWD - 21	8/31/2015	NITRATE (AS NO3)	14	MG/L
BCVWD - 21	9/29/2015	NITRATE (AS NO3)	15	MG/L
BCVWD - 21	10/26/2015	NITRATE (AS NO3)	14	MG/L
BCVWD - 21	11/3/2015	NITRATE (AS NO3)	15	MG/L
BCVWD - 21	12/2/2015	NITRATE (AS NO3)	14	MG/L
BCVWD - 21	12/2/2015	NITRITE (AS N)	100	MG/L
BCVWD - 21	12/1/2016	NITRITE (AS N)	0.1	MG/L
BCVWD - 21	12/18/2018	NITRITE (AS N)	0.4	MG/L
BCVWD - 21	12/2/2015	POTASSIUM	1.6	MG/L
BCVWD - 21	12/18/2018	POTASSIUM	1.6	MG/L
BCVWD - 21	12/2/2015	SODIUM	25	MG/L
BCVWD - 21	12/18/2018	SODIUM	24	MG/L
BCVWD - 21	12/2/2015	SPECIFIC CONDUCTANCE	450	US
BCVWD - 21	12/18/2018	SPECIFIC CONDUCTANCE	480	US

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 21	12/2/2015	SULFATE	26	MG/L
BCVWD - 21	12/18/2018	SULFATE	28	MG/L
BCVWD - 21	12/1/2016	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 21	12/4/2019	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 21	12/2/2015	TOTAL DISSOLVED SOLIDS	290	MG/L
BCVWD - 21	12/18/2018	TOTAL DISSOLVED SOLIDS	270	MG/L
BCVWD - 21	12/1/2016	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 21	12/4/2019	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 21	12/2/2015	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 21	12/18/2018	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 21	12/2/2015	ZINC	50	UG/L
BCVWD - 21	12/18/2018	ZINC	50	UG/L
BCVWD - 22	12/1/2016	ALKALINITY (TOTAL) AS CACO3	180	MG/L
BCVWD - 22	12/4/2019	ALKALINITY (TOTAL) AS CACO3	180	MG/L
BCVWD - 22	12/1/2016	ALUMINUM	50	UG/L
BCVWD - 22	12/4/2019	ALUMINUM	50	UG/L
BCVWD - 22	12/1/2016	ARSENIC	2	UG/L
BCVWD - 22	12/4/2019	ARSENIC	2	UG/L
BCVWD - 22	12/1/2016	BICARBONATE ALKALINITY	210	MG/L
BCVWD - 22	12/4/2019	BICARBONATE ALKALINITY	180	MG/L
BCVWD - 22	12/1/2016	CALCIUM	40	MG/L
BCVWD - 22	12/4/2019	CALCIUM	38	MG/L
BCVWD - 22	12/1/2016	CARBONATE ALKALINITY	3	MG/L
BCVWD - 22	12/4/2019	CARBONATE ALKALINITY	5	MG/L
BCVWD - 22	12/1/2016	CHLORIDE	7.6	MG/L
BCVWD - 22	12/4/2019	CHLORIDE	8	MG/L
BCVWD - 22	12/1/2016	CHROMIUM (TOTAL)	7.9	UG/L
BCVWD - 22	12/4/2019	CHROMIUM (TOTAL)	10	UG/L
BCVWD - 22	11/9/2015	CHROMIUM, HEXAVALENT	7.2	UG/L
BCVWD - 22	12/1/2016	COPPER	50	UG/L
BCVWD - 22	12/4/2019	COPPER	50	UG/L
BCVWD - 22	12/4/2019	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
BCVWD - 22	12/1/2016	FLUORIDE (F) (NATURAL-SOURCE)	0.4	MG/L
BCVWD - 22	12/4/2019	FLUORIDE (F) (NATURAL-SOURCE)	0.31	MG/L
BCVWD - 22	12/1/2016	HARDNESS (TOTAL) AS CACO3	170	MG/L
BCVWD - 22	12/4/2019	HARDNESS (TOTAL) AS CACO3	160	MG/L
BCVWD - 22	12/1/2016	HYDROXIDE ALKALINITY	3	MG/L
BCVWD - 22	12/4/2019	HYDROXIDE ALKALINITY	5	MG/L
BCVWD - 22	12/1/2016	IRON	100	UG/L
BCVWD - 22	12/4/2019	IRON	100	UG/L
BCVWD - 22	12/1/2016	LEAD	5	UG/L
BCVWD - 22	12/4/2019	LEAD	5	UG/L
BCVWD - 22	12/1/2016	MAGNESIUM	17	MG/L
BCVWD - 22	12/4/2019	MAGNESIUM	16	MG/L
BCVWD - 22	12/1/2016	MANGANESE	20	UG/L
BCVWD - 22	12/4/2019	MANGANESE	20	UG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 22	12/1/2016	MERCURY	1	<
BCVWD - 22	12/4/2019	MERCURY	1	<
BCVWD - 22	12/1/2016	NITRATE (AS N)	3	MG/L
BCVWD - 22	12/14/2017	NITRATE (AS N)	0.89	MG/L
BCVWD - 22	12/4/2019	NITRATE (AS N)	0.93	MG/L
BCVWD - 22	12/3/2015	NITRATE (AS NO3)	3.7	MG/L
BCVWD - 22	12/1/2016	NITRITE (AS N)	0.1	MG/L
BCVWD - 22	12/4/2019	NITRITE (AS N)	0.4	MG/L
BCVWD - 22	12/1/2016	POTASSIUM	1.4	MG/L
BCVWD - 22	12/4/2019	POTASSIUM	1.3	MG/L
BCVWD - 22	12/1/2016	SODIUM	18	MG/L
BCVWD - 22	12/4/2019	SODIUM	18	MG/L
BCVWD - 22	12/1/2016	SPECIFIC CONDUCTANCE	430	US
BCVWD - 22	12/4/2019	SPECIFIC CONDUCTANCE	380	US
BCVWD - 22	12/1/2016	SULFATE	24	MG/L
BCVWD - 22	12/4/2019	SULFATE	10	MG/L
BCVWD - 22	12/1/2016	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 22	12/4/2019	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 22	12/1/2016	TOTAL DISSOLVED SOLIDS	260	MG/L
BCVWD - 22	12/4/2019	TOTAL DISSOLVED SOLIDS	220	MG/L
BCVWD - 22	12/1/2016	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 22	12/4/2019	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 22	12/1/2016	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 22	12/4/2019	TURBIDITY, LABORATORY	0.18	NTU
BCVWD - 22	12/1/2016	ZINC	50	UG/L
BCVWD - 22	12/4/2019	ZINC	50	UG/L
BCVWD - 23	12/2/2015	ALKALINITY (TOTAL) AS CACO3	170	MG/L
BCVWD - 23	12/3/2015	ALKALINITY (TOTAL) AS CACO3	160	MG/L
BCVWD - 23	12/18/2018	ALKALINITY (TOTAL) AS CACO3	170	MG/L
BCVWD - 23	12/2/2015	ALUMINUM	50	UG/L
BCVWD - 23	12/3/2015	ALUMINUM	50	UG/L
BCVWD - 23	12/18/2018	ALUMINUM	50	UG/L
BCVWD - 23	12/2/2015	ARSENIC	2	UG/L
BCVWD - 23	12/3/2015	ARSENIC	2	UG/L
BCVWD - 23	12/18/2018	ARSENIC	2	UG/L
BCVWD - 23	12/2/2015	BICARBONATE ALKALINITY	210	MG/L
BCVWD - 23	12/3/2015	BICARBONATE ALKALINITY	190	MG/L
BCVWD - 23	12/18/2018	BICARBONATE ALKALINITY	170	MG/L
BCVWD - 23	12/2/2015	CALCIUM	46	MG/L
BCVWD - 23	12/3/2015	CALCIUM	42	MG/L
BCVWD - 23	12/18/2018	CALCIUM	47	MG/L
BCVWD - 23	12/2/2015	CARBONATE ALKALINITY	3	MG/L
BCVWD - 23	12/3/2015	CARBONATE ALKALINITY	3	MG/L
BCVWD - 23	12/18/2018	CARBONATE ALKALINITY	5	MG/L
BCVWD - 23	12/2/2015	CHLORIDE	9.9	MG/L
BCVWD - 23	12/3/2015	CHLORIDE	15	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 23	12/18/2018	CHLORIDE	21	MG/L
BCVWD - 23	12/2/2015	CHROMIUM (TOTAL)	6.3	UG/L
BCVWD - 23	12/3/2015	CHROMIUM (TOTAL)	8.4	UG/L
BCVWD - 23	12/18/2018	CHROMIUM (TOTAL)	10	UG/L
BCVWD - 23	11/4/2015	CHROMIUM, HEXAVALENT	6.7	UG/L
BCVWD - 23	12/2/2015	COPPER	50	UG/L
BCVWD - 23	12/3/2015	COPPER	50	UG/L
BCVWD - 23	12/18/2018	COPPER	50	UG/L
BCVWD - 23	12/2/2015	DIBROMOCHLOROPROPANE (DBCP)	0.028	UG/L
BCVWD - 23	12/3/2015	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
BCVWD - 23	12/18/2018	DIBROMOCHLOROPROPANE (DBCP)	0.044	UG/L
BCVWD - 23	6/27/2019	DIBROMOCHLOROPROPANE (DBCP)	0.048	UG/L
BCVWD - 23	12/2/2015	FLUORIDE (F) (NATURAL-SOURCE)	0.4	MG/L
BCVWD - 23	12/3/2015	FLUORIDE (F) (NATURAL-SOURCE)	0.3	MG/L
BCVWD - 23	12/18/2018	FLUORIDE (F) (NATURAL-SOURCE)	0.37	MG/L
BCVWD - 23	12/2/2015	HARDNESS (TOTAL) AS CACO3	170	MG/L
BCVWD - 23	12/3/2015	HARDNESS (TOTAL) AS CACO3	170	MG/L
BCVWD - 23	12/18/2018	HARDNESS (TOTAL) AS CACO3	180	MG/L
BCVWD - 23	12/2/2015	HYDROXIDE ALKALINITY	3	MG/L
BCVWD - 23	12/3/2015	HYDROXIDE ALKALINITY	3	MG/L
BCVWD - 23	12/18/2018	HYDROXIDE ALKALINITY	5	MG/L
BCVWD - 23	12/2/2015	IRON	100	UG/L
BCVWD - 23	12/3/2015	IRON	100	UG/L
BCVWD - 23	12/18/2018	IRON	100	UG/L
BCVWD - 23	12/2/2015	LEAD	5	UG/L
BCVWD - 23	12/3/2015	LEAD	5	UG/L
BCVWD - 23	12/18/2018	LEAD	5	UG/L
BCVWD - 23	12/2/2015	MAGNESIUM	14	MG/L
BCVWD - 23	12/3/2015	MAGNESIUM	15	MG/L
BCVWD - 23	12/18/2018	MAGNESIUM	15	MG/L
BCVWD - 23	12/2/2015	MANGANESE	20	UG/L
BCVWD - 23	12/3/2015	MANGANESE	20	UG/L
BCVWD - 23	12/18/2018	MANGANESE	20	UG/L
BCVWD - 23	12/2/2015	MERCURY	1	<
BCVWD - 23	12/3/2015	MERCURY	1	<
BCVWD - 23	12/18/2018	MERCURY	1	<
BCVWD - 23	12/8/2016	NITRATE (AS N)	2.8	MG/L
BCVWD - 23	5/23/2017	NITRATE (AS N)	2.4	MG/L
BCVWD - 23	6/19/2017	NITRATE (AS N)	2.4	MG/L
BCVWD - 23	7/18/2017	NITRATE (AS N)	2.3	MG/L
BCVWD - 23	8/14/2017	NITRATE (AS N)	2.4	MG/L
BCVWD - 23	9/11/2017	NITRATE (AS N)	2.4	MG/L
BCVWD - 23	11/22/2017	NITRATE (AS N)	2.9	MG/L
BCVWD - 23	12/11/2017	NITRATE (AS N)	2.4	MG/L
BCVWD - 23	1/8/2018	NITRATE (AS N)	2.4	MG/L
BCVWD - 23	2/27/2018	NITRATE (AS N)	2.3	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 23	12/18/2018	NITRATE (AS N)	2.7	MG/L
BCVWD - 23	12/4/2019	NITRATE (AS N)	2.1	MG/L
BCVWD - 23	12/2/2015	NITRATE (AS NO3)	10	MG/L
BCVWD - 23	12/3/2015	NITRATE (AS NO3)	10	MG/L
BCVWD - 23	12/2/2015	NITRITE (AS N)	100	MG/L
BCVWD - 23	12/3/2015	NITRITE (AS N)	100	MG/L
BCVWD - 23	12/18/2018	NITRITE (AS N)	0.4	MG/L
BCVWD - 23	12/2/2015	POTASSIUM	1.6	MG/L
BCVWD - 23	12/3/2015	POTASSIUM	1.7	MG/L
BCVWD - 23	12/18/2018	POTASSIUM	1.5	MG/L
BCVWD - 23	12/2/2015	SODIUM	24	MG/L
BCVWD - 23	12/3/2015	SODIUM	19	MG/L
BCVWD - 23	12/18/2018	SODIUM	21	MG/L
BCVWD - 23	12/2/2015	SPECIFIC CONDUCTANCE	410	US
BCVWD - 23	12/3/2015	SPECIFIC CONDUCTANCE	390	US
BCVWD - 23	12/18/2018	SPECIFIC CONDUCTANCE	440	US
BCVWD - 23	12/2/2015	SULFATE	16	MG/L
BCVWD - 23	12/3/2015	SULFATE	13	MG/L
BCVWD - 23	12/18/2018	SULFATE	19	MG/L
BCVWD - 23	12/2/2015	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 23	12/3/2015	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 23	12/18/2018	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 23	12/2/2015	TOTAL DISSOLVED SOLIDS	180	MG/L
BCVWD - 23	12/3/2015	TOTAL DISSOLVED SOLIDS	250	MG/L
BCVWD - 23	12/18/2018	TOTAL DISSOLVED SOLIDS	260	MG/L
BCVWD - 23	12/2/2015	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 23	12/3/2015	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 23	12/18/2018	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 23	12/2/2015	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 23	12/3/2015	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 23	12/18/2018	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 23	12/2/2015	ZINC	50	UG/L
BCVWD - 23	12/3/2015	ZINC	50	UG/L
BCVWD - 23	12/18/2018	ZINC	50	UG/L
BCVWD - 24	12/1/2016	ALKALINITY (TOTAL) AS CACO3	160	MG/L
BCVWD - 24	12/4/2019	ALKALINITY (TOTAL) AS CACO3	160	MG/L
BCVWD - 24	12/1/2016	ALUMINUM	50	UG/L
BCVWD - 24	12/4/2019	ALUMINUM	50	UG/L
BCVWD - 24	12/1/2016	ARSENIC	2	UG/L
BCVWD - 24	12/18/2018	ARSENIC	2	UG/L
BCVWD - 24	12/4/2019	ARSENIC	2	UG/L
BCVWD - 24	12/1/2016	BICARBONATE ALKALINITY	190	MG/L
BCVWD - 24	12/4/2019	BICARBONATE ALKALINITY	160	MG/L
BCVWD - 24	12/1/2016	CALCIUM	37	MG/L
BCVWD - 24	12/4/2019	CALCIUM	35	MG/L
BCVWD - 24	12/1/2016	CARBONATE ALKALINITY	3	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 24	12/4/2019	CARBONATE ALKALINITY	5	MG/L
BCVWD - 24	12/1/2016	CHLORIDE	5.6	MG/L
BCVWD - 24	12/4/2019	CHLORIDE	6.6	MG/L
BCVWD - 24	12/1/2016	CHROMIUM (TOTAL)	7.2	UG/L
BCVWD - 24	12/4/2019	CHROMIUM (TOTAL)	10	UG/L
BCVWD - 24	11/9/2015	CHROMIUM, HEXAVALENT	7.7	UG/L
BCVWD - 24	12/1/2016	COPPER	50	UG/L
BCVWD - 24	12/4/2019	COPPER	50	UG/L
BCVWD - 24	12/4/2019	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
BCVWD - 24	12/1/2016	FLUORIDE (F) (NATURAL-SOURCE)	0.5	MG/L
BCVWD - 24	12/4/2019	FLUORIDE (F) (NATURAL-SOURCE)	0.35	MG/L
BCVWD - 24	12/1/2016	HARDNESS (TOTAL) AS CACO3	140	MG/L
BCVWD - 24	12/4/2019	HARDNESS (TOTAL) AS CACO3	140	MG/L
BCVWD - 24	12/1/2016	HYDROXIDE ALKALINITY	3	MG/L
BCVWD - 24	12/4/2019	HYDROXIDE ALKALINITY	5	MG/L
BCVWD - 24	12/1/2016	IRON	100	UG/L
BCVWD - 24	12/4/2019	IRON	100	UG/L
BCVWD - 24	12/1/2016	LEAD	5	UG/L
BCVWD - 24	12/4/2019	LEAD	5	UG/L
BCVWD - 24	12/1/2016	MAGNESIUM	12	MG/L
BCVWD - 24	12/4/2019	MAGNESIUM	12	MG/L
BCVWD - 24	12/1/2016	MANGANESE	20	UG/L
BCVWD - 24	12/4/2019	MANGANESE	20	UG/L
BCVWD - 24	12/1/2016	MERCURY	1	<
BCVWD - 24	12/4/2019	MERCURY	1	<
BCVWD - 24	12/1/2016	NITRATE (AS N)	1.7	MG/L
BCVWD - 24	11/22/2017	NITRATE (AS N)	1.7	MG/L
BCVWD - 24	12/18/2018	NITRATE (AS N)	1.8	MG/L
BCVWD - 24	12/4/2019	NITRATE (AS N)	1.7	MG/L
BCVWD - 24	12/3/2015	NITRATE (AS NO3)	6.4	MG/L
BCVWD - 24	12/1/2016	NITRITE (AS N)	0.1	MG/L
BCVWD - 24	12/4/2019	NITRITE (AS N)	0.4	MG/L
BCVWD - 24	12/1/2016	POTASSIUM	1.4	MG/L
BCVWD - 24	12/4/2019	POTASSIUM	1.3	MG/L
BCVWD - 24	12/1/2016	SODIUM	19	MG/L
BCVWD - 24	12/4/2019	SODIUM	17	MG/L
BCVWD - 24	12/1/2016	SPECIFIC CONDUCTANCE	360	US
BCVWD - 24	12/4/2019	SPECIFIC CONDUCTANCE	350	US
BCVWD - 24	12/1/2016	SULFATE	11	MG/L
BCVWD - 24	12/4/2019	SULFATE	11	MG/L
BCVWD - 24	12/1/2016	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 24	12/4/2019	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 24	12/1/2016	TOTAL DISSOLVED SOLIDS	210	MG/L
BCVWD - 24	12/4/2019	TOTAL DISSOLVED SOLIDS	200	MG/L
BCVWD - 24	12/1/2016	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 24	12/4/2019	TRICHLOROETHYLENE	0.5	UG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 24	12/1/2016	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 24	12/4/2019	TURBIDITY, LABORATORY	0.15	NTU
BCVWD - 24	12/1/2016	ZINC	50	UG/L
BCVWD - 24	12/4/2019	ZINC	50	UG/L
BCVWD - 25	12/18/2018	ALKALINITY (TOTAL) AS CACO3	180	MG/L
BCVWD - 25	12/18/2018	ALUMINUM	50	UG/L
BCVWD - 25	12/18/2018	ARSENIC	2	UG/L
BCVWD - 25	12/18/2018	BICARBONATE ALKALINITY	180	MG/L
BCVWD - 25	12/18/2018	CALCIUM	43	MG/L
BCVWD - 25	12/18/2018	CARBONATE ALKALINITY	5	MG/L
BCVWD - 25	12/18/2018	CHLORIDE	9.7	MG/L
BCVWD - 25	12/18/2018	CHROMIUM (TOTAL)	12	UG/L
BCVWD - 25	3/31/2015	CHROMIUM, HEXAVALENT	8.3	UG/L
BCVWD - 25	8/7/2015	CHROMIUM, HEXAVALENT	11	UG/L
BCVWD - 25	8/27/2015	CHROMIUM, HEXAVALENT	11	UG/L
BCVWD - 25	12/18/2018	COPPER	50	UG/L
BCVWD - 25	12/18/2018	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
BCVWD - 25	12/18/2018	FLUORIDE (F) (NATURAL-SOURCE)	0.23	MG/L
BCVWD - 25	12/18/2018	HARDNESS (TOTAL) AS CACO3	160	MG/L
BCVWD - 25	12/18/2018	HYDROXIDE ALKALINITY	5	MG/L
BCVWD - 25	12/18/2018	IRON	100	UG/L
BCVWD - 25	12/18/2018	LEAD	5	UG/L
BCVWD - 25	12/18/2018	MAGNESIUM	13	MG/L
BCVWD - 25	12/18/2018	MANGANESE	20	UG/L
BCVWD - 25	12/18/2018	MERCURY	1	<
BCVWD - 25	5/15/2017	NITRATE (AS N)	1.6	MG/L
BCVWD - 25	10/23/2017	NITRATE (AS N)	1.1	MG/L
BCVWD - 25	12/18/2018	NITRATE (AS N)	1.1	MG/L
BCVWD - 25	12/4/2019	NITRATE (AS N)	0.76	MG/L
BCVWD - 25	12/18/2018	NITRITE (AS N)	0.4	MG/L
BCVWD - 25	12/18/2018	POTASSIUM	1.5	MG/L
BCVWD - 25	12/18/2018	SODIUM	22	MG/L
BCVWD - 25	12/18/2018	SPECIFIC CONDUCTANCE	400	US
BCVWD - 25	12/18/2018	SULFATE	13	MG/L
BCVWD - 25	12/18/2018	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 25	12/18/2018	TOTAL DISSOLVED SOLIDS	230	MG/L
BCVWD - 25	12/18/2018	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 25	12/18/2018	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 25	12/18/2018	ZINC	50	UG/L
BCVWD - 26	12/18/2018	ALKALINITY (TOTAL) AS CACO3	160	MG/L
BCVWD - 26	12/18/2018	ALUMINUM	50	UG/L
BCVWD - 26	12/18/2018	ARSENIC	2	UG/L
BCVWD - 26	12/18/2018	BICARBONATE ALKALINITY	160	MG/L
BCVWD - 26	12/18/2018	CALCIUM	33	MG/L
BCVWD - 26	12/18/2018	CARBONATE ALKALINITY	5	MG/L
BCVWD - 26	12/18/2018	CHLORIDE	8.8	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 26	12/18/2018	CHROMIUM (TOTAL)	16	UG/L
BCVWD - 26	3/31/2015	CHROMIUM, HEXAVALENT	13	UG/L
BCVWD - 26	12/18/2018	COPPER	50	UG/L
BCVWD - 26	12/18/2018	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
BCVWD - 26	12/18/2018	FLUORIDE (F) (NATURAL-SOURCE)	0.28	MG/L
BCVWD - 26	12/18/2018	HARDNESS (TOTAL) AS CACO3	120	MG/L
BCVWD - 26	12/18/2018	HYDROXIDE ALKALINITY	5	MG/L
BCVWD - 26	12/18/2018	IRON	100	UG/L
BCVWD - 26	12/18/2018	LEAD	5	UG/L
BCVWD - 26	12/18/2018	MAGNESIUM	9.2	MG/L
BCVWD - 26	12/18/2018	MANGANESE	20	UG/L
BCVWD - 26	12/18/2018	MERCURY	1	<
BCVWD - 26	12/18/2018	NITRATE (AS N)	0.89	MG/L
BCVWD - 26	12/4/2019	NITRATE (AS N)	0.64	MG/L
BCVWD - 26	12/18/2018	NITRITE (AS N)	0.4	MG/L
BCVWD - 26	12/18/2018	POTASSIUM	1.5	MG/L
BCVWD - 26	12/18/2018	SODIUM	26	MG/L
BCVWD - 26	12/18/2018	SPECIFIC CONDUCTANCE	340	US
BCVWD - 26	12/18/2018	SULFATE	10	MG/L
BCVWD - 26	12/18/2018	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 26	12/18/2018	TOTAL DISSOLVED SOLIDS	180	MG/L
BCVWD - 26	12/18/2018	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 26	12/18/2018	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 26	12/18/2018	ZINC	50	UG/L
BCVWD - 29	12/8/2016	ALKALINITY (TOTAL) AS CACO3	160	MG/L
BCVWD - 29	12/18/2018	ALKALINITY (TOTAL) AS CACO3	130	MG/L
BCVWD - 29	12/8/2016	ALUMINUM	50	UG/L
BCVWD - 29	12/18/2018	ALUMINUM	50	UG/L
BCVWD - 29	12/8/2016	ARSENIC	2	UG/L
BCVWD - 29	12/18/2018	ARSENIC	2	UG/L
BCVWD - 29	12/8/2016	BICARBONATE ALKALINITY	190	MG/L
BCVWD - 29	12/18/2018	BICARBONATE ALKALINITY	130	MG/L
BCVWD - 29	12/8/2016	CALCIUM	42	MG/L
BCVWD - 29	12/18/2018	CALCIUM	39	MG/L
BCVWD - 29	12/8/2016	CARBONATE ALKALINITY	3	MG/L
BCVWD - 29	12/18/2018	CARBONATE ALKALINITY	5	MG/L
BCVWD - 29	12/8/2016	CHLORIDE	13	MG/L
BCVWD - 29	12/18/2018	CHLORIDE	11	MG/L
BCVWD - 29	12/8/2016	CHROMIUM (TOTAL)	7.6	UG/L
BCVWD - 29	12/18/2018	CHROMIUM (TOTAL)	10	UG/L
BCVWD - 29	12/14/2017	CHROMIUM, HEXAVALENT	8	UG/L
BCVWD - 29	12/8/2016	COPPER	50	UG/L
BCVWD - 29	12/18/2018	COPPER	50	UG/L
BCVWD - 29	12/8/2016	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
BCVWD - 29	12/18/2018	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
BCVWD - 29	12/8/2016	FLUORIDE (F) (NATURAL-SOURCE)	0.4	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
BCVWD - 29	12/18/2018	FLUORIDE (F) (NATURAL-SOURCE)	0.3	MG/L
BCVWD - 29	12/8/2016	HARDNESS (TOTAL) AS CACO3	170	MG/L
BCVWD - 29	12/18/2018	HARDNESS (TOTAL) AS CACO3	150	MG/L
BCVWD - 29	12/8/2016	HYDROXIDE ALKALINITY	3	MG/L
BCVWD - 29	12/18/2018	HYDROXIDE ALKALINITY	5	MG/L
BCVWD - 29	12/8/2016	IRON	100	UG/L
BCVWD - 29	12/18/2018	IRON	100	UG/L
BCVWD - 29	12/8/2016	LEAD	5	UG/L
BCVWD - 29	12/18/2018	LEAD	5	UG/L
BCVWD - 29	12/8/2016	MAGNESIUM	15	MG/L
BCVWD - 29	12/18/2018	MAGNESIUM	13	MG/L
BCVWD - 29	12/8/2016	MANGANESE	20	UG/L
BCVWD - 29	12/18/2018	MANGANESE	20	UG/L
BCVWD - 29	12/8/2016	MERCURY	1	<
BCVWD - 29	12/18/2018	MERCURY	1	<
BCVWD - 29	12/8/2016	NITRATE (AS N)	2.3	MG/L
BCVWD - 29	12/14/2017	NITRATE (AS N)	2.3	MG/L
BCVWD - 29	12/18/2018	NITRATE (AS N)	1.8	MG/L
BCVWD - 29	12/4/2019	NITRATE (AS N)	1.8	MG/L
BCVWD - 29	12/8/2016	NITRITE (AS N)	0.1	MG/L
BCVWD - 29	12/18/2018	NITRITE (AS N)	0.4	MG/L
BCVWD - 29	12/8/2016	POTASSIUM	1.5	MG/L
BCVWD - 29	12/18/2018	POTASSIUM	1.6	MG/L
BCVWD - 29	12/8/2016	SODIUM	19	MG/L
BCVWD - 29	12/18/2018	SODIUM	19	MG/L
BCVWD - 29	12/14/2017	SPECIFIC CONDUCTANCE	400	US
BCVWD - 29	12/18/2018	SPECIFIC CONDUCTANCE	360	US
BCVWD - 29	12/8/2016	SULFATE	11	MG/L
BCVWD - 29	12/18/2018	SULFATE	11	MG/L
BCVWD - 29	12/8/2016	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 29	12/18/2018	TETRACHLOROETHYLENE	0.5	UG/L
BCVWD - 29	12/8/2016	TOTAL DISSOLVED SOLIDS	220	MG/L
BCVWD - 29	12/18/2018	TOTAL DISSOLVED SOLIDS	210	MG/L
BCVWD - 29	12/8/2016	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 29	12/18/2018	TRICHLOROETHYLENE	0.5	UG/L
BCVWD - 29	12/8/2016	TURBIDITY, LABORATORY	0.1	NTU
BCVWD - 29	12/18/2018	TURBIDITY, LABORATORY	0.14	NTU
BCVWD - 29	12/8/2016	ZINC	50	UG/L
BCVWD - 29	12/18/2018	ZINC	50	UG/L
Banning - C2A	3/19/2015	CHROMIUM, HEXAVALENT	17	UG/L
Banning - C2A	6/24/2015	CHROMIUM, HEXAVALENT	17	UG/L
Banning - C2A	9/29/2015	CHROMIUM, HEXAVALENT	17	UG/L
Banning - C2A	12/28/2015	CHROMIUM, HEXAVALENT	16	UG/L
Banning - C2A	3/24/2016	CHROMIUM, HEXAVALENT	15	UG/L
Banning - C2A	6/22/2016	CHROMIUM, HEXAVALENT	15	UG/L
Banning - C2A	9/21/2016	CHROMIUM, HEXAVALENT	16	UG/L

Well Name	Sample Date	Analyte	Concent.	Unit
Banning - C2A	12/21/2016	CHROMIUM, HEXAVALENT	16	UG/L
Banning - C2A	11/13/2017	CHROMIUM, HEXAVALENT	16	UG/L
Banning - C2A	4/27/2016	NITRATE (AS N)	1.8	MG/L
Banning - C2A	4/26/2017	NITRATE (AS N)	1.9	MG/L
Banning - C2A	6/13/2018	NITRATE (AS N)	2	MG/L
Banning - C2A	1/23/2019	NITRATE (AS N)	2	MG/L
Banning - C2A	4/29/2015	NITRATE (AS NO3)	8.1	MG/L
Banning - C2A	4/27/2016	NITRITE (AS N)	0.1	MG/L
Banning - C2A	4/26/2017	NITRITE (AS N)	0.1	MG/L
Banning - C2A	6/13/2018	NITRITE (AS N)	0.1	MG/L
Banning - C2A	1/23/2019	NITRITE (AS N)	0.4	MG/L
Banning - C3	3/8/2017	ALKALINITY (TOTAL) AS CACO3	140	MG/L
Banning - C3	3/8/2017	ALUMINUM	50	UG/L
Banning - C3	3/8/2017	ARSENIC	2	UG/L
Banning - C3	3/8/2017	BICARBONATE ALKALINITY	160	MG/L
Banning - C3	3/8/2017	CALCIUM	31	MG/L
Banning - C3	3/8/2017	CARBONATE ALKALINITY	3	MG/L
Banning - C3	3/8/2017	CHLORIDE	9.9	MG/L
Banning - C3	3/8/2017	CHROMIUM (TOTAL)	15	UG/L
Banning - C3	3/23/2015	CHROMIUM, HEXAVALENT	15	UG/L
Banning - C3	6/24/2015	CHROMIUM, HEXAVALENT	16	UG/L
Banning - C3	9/29/2015	CHROMIUM, HEXAVALENT	14	UG/L
Banning - C3	12/30/2015	CHROMIUM, HEXAVALENT	16	UG/L
Banning - C3	3/24/2016	CHROMIUM, HEXAVALENT	15	UG/L
Banning - C3	6/22/2016	CHROMIUM, HEXAVALENT	14	UG/L
Banning - C3	9/21/2016	CHROMIUM, HEXAVALENT	15	UG/L
Banning - C3	5/12/2017	CHROMIUM, HEXAVALENT	14	UG/L
Banning - C3	8/14/2017	CHROMIUM, HEXAVALENT	14	UG/L
Banning - C3	11/13/2017	CHROMIUM, HEXAVALENT	15	UG/L
Banning - C3	3/8/2017	COPPER	50	UG/L
Banning - C3	3/8/2017	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
Banning - C3	3/8/2017	FLUORIDE (F) (NATURAL-SOURCE)	0.4	MG/L
Banning - C3	3/8/2017	HARDNESS (TOTAL) AS CACO3	100	MG/L
Banning - C3	3/8/2017	HYDROXIDE ALKALINITY	3	MG/L
Banning - C3	3/8/2017	IRON	100	UG/L
Banning - C3	3/8/2017	LEAD	5	UG/L
Banning - C3	3/8/2017	MAGNESIUM	5.7	MG/L
Banning - C3	3/8/2017	MANGANESE	20	UG/L
Banning - C3	3/8/2017	MERCURY	1	<
Banning - C3	4/22/2016	NITRATE (AS N)	1.6	MG/L
Banning - C3	3/8/2017	NITRATE (AS N)	1.6	MG/L
Banning - C3	4/25/2017	NITRATE (AS N)	1.8	MG/L
Banning - C3	6/13/2018	NITRATE (AS N)	1.8	MG/L
Banning - C3	1/23/2019	NITRATE (AS N)	1.8	MG/L
Banning - C3	4/21/2015	NITRATE (AS NO3)	7.1	MG/L
Banning - C3	4/22/2016	NITRITE (AS N)	0.1	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
Banning - C3	3/8/2017	NITRITE (AS N)	0.1	MG/L
Banning - C3	4/25/2017	NITRITE (AS N)	0.1	MG/L
Banning - C3	6/13/2018	NITRITE (AS N)	0.1	MG/L
Banning - C3	1/23/2019	NITRITE (AS N)	0.4	MG/L
Banning - C3	3/8/2017	POTASSIUM	1.5	MG/L
Banning - C3	3/8/2017	SODIUM	29	MG/L
Banning - C3	3/8/2017	SPECIFIC CONDUCTANCE	330	US
Banning - C3	3/8/2017	SULFATE	6	MG/L
Banning - C3	3/8/2017	TETRACHLOROETHYLENE	0.5	UG/L
Banning - C3	3/8/2017	TOTAL DISSOLVED SOLIDS	170	MG/L
Banning - C3	3/8/2017	TRICHLOROETHYLENE	0.5	UG/L
Banning - C3	3/8/2017	TURBIDITY, LABORATORY	0.18	NTU
Banning - C3	3/8/2017	ZINC	50	UG/L
Banning - C4	3/6/2017	ALKALINITY (TOTAL) AS CACO3	120	MG/L
Banning - C4	3/6/2017	ALUMINUM	50	UG/L
Banning - C4	3/6/2017	ARSENIC	2	UG/L
Banning - C4	3/6/2017	BICARBONATE ALKALINITY	140	MG/L
Banning - C4	3/6/2017	CALCIUM	22	MG/L
Banning - C4	3/6/2017	CARBONATE ALKALINITY	3	MG/L
Banning - C4	3/6/2017	CHLORIDE	5.6	MG/L
Banning - C4	3/6/2017	CHROMIUM (TOTAL)	9.9	UG/L
Banning - C4	3/30/2015	CHROMIUM, HEXAVALENT	13	UG/L
Banning - C4	6/24/2015	CHROMIUM, HEXAVALENT	17	UG/L
Banning - C4	9/29/2015	CHROMIUM, HEXAVALENT	16	UG/L
Banning - C4	12/28/2015	CHROMIUM, HEXAVALENT	17	UG/L
Banning - C4	3/24/2016	CHROMIUM, HEXAVALENT	10	UG/L
Banning - C4	6/22/2016	CHROMIUM, HEXAVALENT	15	UG/L
Banning - C4	9/21/2016	CHROMIUM, HEXAVALENT	15	UG/L
Banning - C4	12/21/2016	CHROMIUM, HEXAVALENT	13	UG/L
Banning - C4	5/25/2017	CHROMIUM, HEXAVALENT	11	UG/L
Banning - C4	8/14/2017	CHROMIUM, HEXAVALENT	15	UG/L
Banning - C4	11/13/2017	CHROMIUM, HEXAVALENT	15	UG/L
Banning - C4	3/6/2017	COPPER	50	UG/L
Banning - C4	3/6/2017	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
Banning - C4	3/6/2017	FLUORIDE (F) (NATURAL-SOURCE)	0.4	MG/L
Banning - C4	3/6/2017	HARDNESS (TOTAL) AS CACO3	67	MG/L
Banning - C4	3/6/2017	HYDROXIDE ALKALINITY	3	MG/L
Banning - C4	3/6/2017	IRON	100	UG/L
Banning - C4	3/6/2017	LEAD	5	UG/L
Banning - C4	3/6/2017	MAGNESIUM	3.1	MG/L
Banning - C4	3/6/2017	MANGANESE	20	UG/L
Banning - C4	3/6/2017	MERCURY	1	<
Banning - C4	4/27/2016	NITRATE (AS N)	0.89	MG/L
Banning - C4	3/6/2017	NITRATE (AS N)	0.79	MG/L
Banning - C4	4/26/2017	NITRATE (AS N)	0.91	MG/L
Banning - C4	6/13/2018	NITRATE (AS N)	1.1	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
Banning - C4	1/23/2019	NITRATE (AS N)	0.95	MG/L
Banning - C4	4/29/2015	NITRATE (AS NO3)	5	MG/L
Banning - C4	4/27/2016	NITRITE (AS N)	0.1	MG/L
Banning - C4	3/6/2017	NITRITE (AS N)	0.1	MG/L
Banning - C4	4/26/2017	NITRITE (AS N)	0.1	MG/L
Banning - C4	6/13/2018	NITRITE (AS N)	0.1	MG/L
Banning - C4	1/23/2019	NITRITE (AS N)	0.4	MG/L
Banning - C4	3/6/2017	POTASSIUM	1.4	MG/L
Banning - C4	3/6/2017	SODIUM	37	MG/L
Banning - C4	3/6/2017	SPECIFIC CONDUCTANCE	290	US
Banning - C4	3/6/2017	SULFATE	13	MG/L
Banning - C4	3/6/2017	TETRACHLOROETHYLENE	0.5	UG/L
Banning - C4	3/6/2017	TOTAL DISSOLVED SOLIDS	190	MG/L
Banning - C4	3/6/2017	TRICHLOROETHYLENE	0.5	UG/L
Banning - C4	3/6/2017	TURBIDITY, LABORATORY	0.1	NTU
Banning - C4	3/6/2017	ZINC	50	UG/L
Banning - M3	3/18/2015	ALKALINITY (TOTAL) AS CACO3	150	MG/L
Banning - M3	2/14/2018	ALKALINITY (TOTAL) AS CACO3	180	MG/L
Banning - M3	3/18/2015	ALUMINUM	50	UG/L
Banning - M3	2/14/2018	ALUMINUM	57	UG/L
Banning - M3	3/18/2015	ARSENIC	2	UG/L
Banning - M3	2/14/2018	ARSENIC	2	UG/L
Banning - M3	3/18/2015	BICARBONATE ALKALINITY	190	MG/L
Banning - M3	2/14/2018	BICARBONATE ALKALINITY	180	MG/L
Banning - M3	3/18/2015	CALCIUM	39	MG/L
Banning - M3	2/14/2018	CALCIUM	41	MG/L
Banning - M3	3/18/2015	CARBONATE ALKALINITY	3	MG/L
Banning - M3	2/14/2018	CARBONATE ALKALINITY	5	MG/L
Banning - M3	3/18/2015	CHLORIDE	14	MG/L
Banning - M3	2/14/2018	CHLORIDE	16	MG/L
Banning - M3	3/18/2015	CHROMIUM (TOTAL)	8.5	UG/L
Banning - M3	2/14/2018	CHROMIUM (TOTAL)	9.9	UG/L
Banning - M3	3/19/2015	CHROMIUM, HEXAVALENT	9.7	UG/L
Banning - M3	6/24/2015	CHROMIUM, HEXAVALENT	10	UG/L
Banning - M3	9/29/2015	CHROMIUM, HEXAVALENT	10	UG/L
Banning - M3	12/28/2015	CHROMIUM, HEXAVALENT	9.9	UG/L
Banning - M3	3/24/2016	CHROMIUM, HEXAVALENT	9.4	UG/L
Banning - M3	6/22/2016	CHROMIUM, HEXAVALENT	9.1	UG/L
Banning - M3	9/21/2016	CHROMIUM, HEXAVALENT	9.3	UG/L
Banning - M3	12/21/2016	CHROMIUM, HEXAVALENT	9.4	UG/L
Banning - M3	5/25/2017	CHROMIUM, HEXAVALENT	9.9	UG/L
Banning - M3	8/14/2017	CHROMIUM, HEXAVALENT	9.2	UG/L
Banning - M3	11/15/2017	CHROMIUM, HEXAVALENT	9.1	UG/L
Banning - M3	3/18/2015	COPPER	50	UG/L
Banning - M3	2/14/2018	COPPER	50	UG/L
Banning - M3	3/18/2015	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L

Well Name	Sample Date	Analyte	Concent.	Unit
Banning - M3	2/14/2018	DIBROMOCHLOROPROPANE (DBCP)	0.01	UG/L
Banning - M3	3/18/2015	FLUORIDE (F) (NATURAL-SOURCE)	0.3	MG/L
Banning - M3	2/14/2018	FLUORIDE (F) (NATURAL-SOURCE)	0.32	MG/L
Banning - M3	3/18/2015	HARDNESS (TOTAL) AS CACO3	150	MG/L
Banning - M3	2/14/2018	HARDNESS (TOTAL) AS CACO3	160	MG/L
Banning - M3	3/18/2015	HYDROXIDE ALKALINITY	3	MG/L
Banning - M3	2/14/2018	HYDROXIDE ALKALINITY	5	MG/L
Banning - M3	3/18/2015	IRON	100	UG/L
Banning - M3	2/14/2018	IRON	120	UG/L
Banning - M3	3/18/2015	LEAD	5	UG/L
Banning - M3	2/14/2018	LEAD	5	UG/L
Banning - M3	3/18/2015	MAGNESIUM	13	MG/L
Banning - M3	2/14/2018	MAGNESIUM	14	MG/L
Banning - M3	3/18/2015	MANGANESE	20	UG/L
Banning - M3	2/14/2018	MANGANESE	20	UG/L
Banning - M3	3/18/2015	MERCURY	1	<
Banning - M3	2/14/2018	MERCURY	1	<
Banning - M3	4/27/2016	NITRATE (AS N)	2.1	MG/L
Banning - M3	4/26/2017	NITRATE (AS N)	2.2	MG/L
Banning - M3	2/14/2018	NITRATE (AS N)	2.2	MG/L
Banning - M3	6/13/2018	NITRATE (AS N)	1.9	MG/L
Banning - M3	1/23/2019	NITRATE (AS N)	2.2	MG/L
Banning - M3	3/18/2015	NITRATE (AS NO3)	7.2	MG/L
Banning - M3	4/21/2015	NITRATE (AS NO3)	7.8	MG/L
Banning - M3	3/18/2015	NITRITE (AS N)	100	MG/L
Banning - M3	4/27/2016	NITRITE (AS N)	0.1	MG/L
Banning - M3	4/26/2017	NITRITE (AS N)	0.1	MG/L
Banning - M3	2/14/2018	NITRITE (AS N)	0.1	MG/L
Banning - M3	6/13/2018	NITRITE (AS N)	0.1	MG/L
Banning - M3	1/23/2019	NITRITE (AS N)	0.4	MG/L
Banning - M3	3/18/2015	POTASSIUM	2	MG/L
Banning - M3	2/14/2018	POTASSIUM	2.1	MG/L
Banning - M3	3/18/2015	SODIUM	39	MG/L
Banning - M3	2/14/2018	SODIUM	39	MG/L
Banning - M3	3/18/2015	SPECIFIC CONDUCTANCE	460	US
Banning - M3	2/14/2018	SPECIFIC CONDUCTANCE	460	US
Banning - M3	3/18/2015	SULFATE	35	MG/L
Banning - M3	2/14/2018	SULFATE	36	MG/L
Banning - M3	3/18/2015	TETRACHLOROETHYLENE	0.5	UG/L
Banning - M3	2/14/2018	TETRACHLOROETHYLENE	0.5	UG/L
Banning - M3	3/18/2015	TOTAL DISSOLVED SOLIDS	300	MG/L
Banning - M3	2/14/2018	TOTAL DISSOLVED SOLIDS	280	MG/L
Banning - M3	3/18/2015	TRICHLOROETHYLENE	0.5	UG/L
Banning - M3	2/14/2018	TRICHLOROETHYLENE	0.5	UG/L
Banning - M3	3/18/2015	TURBIDITY, LABORATORY	0.2	NTU
Banning - M3	2/14/2018	TURBIDITY, LABORATORY	1.2	NTU

Well Name	Sample Date	Analyte	Concent.	Unit
Banning - M3	3/18/2015	ZINC	50	UG/L
Banning - M3	2/14/2018	ZINC	50	UG/L
SMWC - 04	4/11/2016	ALKALINITY (TOTAL) AS CACO3	110	MG/L
SMWC - 04	4/15/2019	ALKALINITY (TOTAL) AS CACO3	110	MG/L
SMWC - 04	4/11/2016	ALUMINUM	0	UG/L
SMWC - 04	4/15/2019	ALUMINUM	0	UG/L
SMWC - 04	4/11/2016	ARSENIC	4.4	UG/L
SMWC - 04	4/15/2019	ARSENIC	3.8	UG/L
SMWC - 04	4/11/2016	BICARBONATE ALKALINITY	110	MG/L
SMWC - 04	4/15/2019	BICARBONATE ALKALINITY	110	MG/L
SMWC - 04	4/11/2016	CALCIUM	8.8	MG/L
SMWC - 04	4/15/2019	CALCIUM	7.1	MG/L
SMWC - 04	4/11/2016	CARBONATE ALKALINITY	12	MG/L
SMWC - 04	4/15/2019	CARBONATE ALKALINITY	11	MG/L
SMWC - 04	4/11/2016	CHLORIDE	17	MG/L
SMWC - 04	4/15/2019	CHLORIDE	18	MG/L
SMWC - 04	4/11/2016	CHROMIUM (TOTAL)	0	UG/L
SMWC - 04	4/15/2019	CHROMIUM (TOTAL)	0	UG/L
SMWC - 04	12/4/2017	CHROMIUM, HEXAVALENT	2.3	UG/L
SMWC - 04	4/15/2019	CHROMIUM, HEXAVALENT	2.2	UG/L
SMWC - 04	4/11/2016	COPPER	0	UG/L
SMWC - 04	4/15/2019	COPPER	0	UG/L
SMWC - 04	9/16/2015	DIBROMOCHLOROPROPANE (DBCP)	0	UG/L
SMWC - 04	4/11/2016	FLUORIDE (F) (NATURAL-SOURCE)	0.41	MG/L
SMWC - 04	4/15/2019	FLUORIDE (F) (NATURAL-SOURCE)	0.4	MG/L
SMWC - 04	4/11/2016	HARDNESS (TOTAL) AS CACO3	29	MG/L
SMWC - 04	4/15/2019	HARDNESS (TOTAL) AS CACO3	22	MG/L
SMWC - 04	4/11/2016	HYDROXIDE ALKALINITY	0	MG/L
SMWC - 04	4/15/2019	HYDROXIDE ALKALINITY	0	MG/L
SMWC - 04	4/11/2016	IRON	0	UG/L
SMWC - 04	4/15/2019	IRON	0	UG/L
SMWC - 04	4/11/2016	LEAD	0	UG/L
SMWC - 04	4/15/2019	LEAD	0	UG/L
SMWC - 04	4/11/2016	MAGNESIUM	1.7	MG/L
SMWC - 04	4/15/2019	MAGNESIUM	1.1	MG/L
SMWC - 04	4/11/2016	MANGANESE	0	UG/L
SMWC - 04	4/15/2019	MANGANESE	0	UG/L
SMWC - 04	4/11/2016	MERCURY	0	<
SMWC - 04	4/15/2019	MERCURY	0	<
SMWC - 04	4/11/2016	NITRATE (AS N)	3.2	MG/L
SMWC - 04	6/1/2016	NITRATE (AS N)	3	MG/L
SMWC - 04	9/1/2016	NITRATE (AS N)	3	MG/L
SMWC - 04	12/1/2016	NITRATE (AS N)	4	MG/L
SMWC - 04	3/3/2017	NITRATE (AS N)	3.8	MG/L
SMWC - 04	6/5/2017	NITRATE (AS N)	3.1	MG/L
SMWC - 04	9/12/2017	NITRATE (AS N)	4.9	MG/L

Well Name	Sample Date	Analyte	Concent.	Unit
SMWC - 04	12/4/2017	NITRATE (AS N)	3.2	MG/L
SMWC - 04	12/4/2018	NITRATE (AS N)	4.3	MG/L
SMWC - 04	4/15/2019	NITRATE (AS N)	3.8	MG/L
SMWC - 04	6/4/2019	NITRATE (AS N)	4.4	MG/L
SMWC - 04	7/7/2015	NITRATE (AS NO3)	18	MG/L
SMWC - 04	4/11/2016	NITRITE (AS N)	0	MG/L
SMWC - 04	4/15/2019	NITRITE (AS N)	0	MG/L
SMWC - 04	4/11/2016	POTASSIUM	1	MG/L
SMWC - 04	4/15/2019	POTASSIUM	0	MG/L
SMWC - 04	4/11/2016	SODIUM	61	MG/L
SMWC - 04	4/15/2019	SODIUM	62	MG/L
SMWC - 04	4/11/2016	SPECIFIC CONDUCTANCE	330	US
SMWC - 04	4/15/2019	SPECIFIC CONDUCTANCE	320	US
SMWC - 04	4/11/2016	SULFATE	16	MG/L
SMWC - 04	4/15/2019	SULFATE	17	MG/L
SMWC - 04	8/2/2016	TETRACHLOROETHYLENE	0	UG/L
SMWC - 04	8/12/2019	TETRACHLOROETHYLENE	0	UG/L
SMWC - 04	4/11/2016	TOTAL DISSOLVED SOLIDS	190	MG/L
SMWC - 04	4/15/2019	TOTAL DISSOLVED SOLIDS	180	MG/L
SMWC - 04	8/2/2016	TRICHLOROETHYLENE	0	UG/L
SMWC - 04	8/12/2019	TRICHLOROETHYLENE	0	UG/L
SMWC - 04	4/11/2016	TURBIDITY, LABORATORY	0.3	NTU
SMWC - 04	4/15/2019	TURBIDITY, LABORATORY	0	NTU
SMWC - 04	4/11/2016	VANADIUM	100	UG/L
SMWC - 04	4/15/2019	VANADIUM	72	UG/L
SMWC - 04	4/11/2016	ZINC	0	UG/L
SMWC - 04	4/15/2019	ZINC	0	UG/L
YVWD - 48	7/13/2017	ALKALINITY (TOTAL) AS CACO3	96	MG/L
YVWD - 48	7/13/2017	ALUMINUM	0	UG/L
YVWD - 48	7/13/2017	ARSENIC	2.5	UG/L
YVWD - 48	7/13/2017	BICARBONATE ALKALINITY	75	MG/L
YVWD - 48	7/13/2017	CALCIUM	11	MG/L
YVWD - 48	7/13/2017	CARBONATE ALKALINITY	21	MG/L
YVWD - 48	7/13/2017	CHLORIDE	8.8	MG/L
YVWD - 48	7/13/2017	CHROMIUM (TOTAL)	0	UG/L
YVWD - 48	7/13/2017	CHROMIUM, HEXAVALENT	5.8	UG/L
YVWD - 48	7/13/2017	COPPER	0	UG/L
YVWD - 48	8/26/2015	DIBROMOCHLOROPROPANE (DBCP)	0	UG/L
YVWD - 48	7/17/2019	DIBROMOCHLOROPROPANE (DBCP)	0	UG/L
YVWD - 48	7/13/2017	FLUORIDE (F) (NATURAL-SOURCE)	0.63	MG/L
YVWD - 48	7/13/2017	HARDNESS (TOTAL) AS CACO3	38	MG/L
YVWD - 48	7/13/2017	HYDROXIDE ALKALINITY	0	MG/L
YVWD - 48	7/13/2017	IRON	0	UG/L
YVWD - 48	7/13/2017	LEAD	0	UG/L
YVWD - 48	7/13/2017	MAGNESIUM	2.8	MG/L
YVWD - 48	7/13/2017	MANGANESE	0	UG/L

Well Name	Sample Date	Analyte	Concent.	Unit
YVWD - 48	7/13/2017	MERCURY	0	<
YVWD - 48	9/22/2016	NITRATE (AS N)	1.8	MG/L
YVWD - 48	7/13/2017	NITRATE (AS N)	1.6	MG/L
YVWD - 48	7/16/2018	NITRATE (AS N)	2.1	MG/L
YVWD - 48	7/17/2019	NITRATE (AS N)	1.8	MG/L
YVWD - 48	8/26/2015	NITRATE (AS NO3)	9.9	MG/L
YVWD - 48	7/13/2017	NITRITE (AS N)	0	MG/L
YVWD - 48	7/13/2017	POTASSIUM	1.5	MG/L
YVWD - 48	7/13/2017	SODIUM	43	MG/L
YVWD - 48	7/13/2017	SPECIFIC CONDUCTANCE	260	US
YVWD - 48	7/13/2017	SULFATE	14	MG/L
YVWD - 48	12/9/2015	TETRACHLOROETHYLENE	0	UG/L
YVWD - 48	6/23/2016	TETRACHLOROETHYLENE	0	UG/L
YVWD - 48	7/17/2019	TETRACHLOROETHYLENE	0	UG/L
YVWD - 48	8/26/2015	TOTAL DISSOLVED SOLIDS	210	MG/L
YVWD - 48	9/22/2016	TOTAL DISSOLVED SOLIDS	130	MG/L
YVWD - 48	7/13/2017	TOTAL DISSOLVED SOLIDS	130	MG/L
YVWD - 48	12/9/2015	TRICHLOROETHYLENE	0	UG/L
YVWD - 48	6/23/2016	TRICHLOROETHYLENE	0	UG/L
YVWD - 48	7/17/2019	TRICHLOROETHYLENE	0	UG/L
YVWD - 48	7/13/2017	TURBIDITY, LABORATORY	0.4	NTU
YVWD - 48	7/13/2017	VANADIUM	90	UG/L
YVWD - 48	7/13/2017	ZINC	0	UG/L